

# 如何获取自然科学、社会科学跨学科的研究前沿

万跃华

浙江工业大学

**Thomson Reuters** 高级顾问

[wanyuehua@zjut.edu.cn](mailto:wanyuehua@zjut.edu.cn)

**SCI**

<http://blog.sciencenet.cn/u/wanyuehua>

# 提纲： 聚焦研究前沿 深化自主创新

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ESI

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# 重视新兴的交叉领域

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如何追踪自然科学、社会科学跨学科研究前沿？

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# 汤森路透Web of Science跨学科平台

<http://www.webofscience.com/>

The screenshot displays the Web of Science website interface. At the top, there is a navigation bar with logos for Web of Science™, InCites®, Journal Citation Reports®, Essential Science Indicators™, and EndNote®, along with language options for Yuehua, 帮助, and 简体中文. The main header features the 'WEB OF SCIENCE™' logo and the Thomson Reuters logo. Below the header, there is a search bar with a dropdown menu for '所有数据库' (All Databases) which is open, showing a list of databases including Web of Science™ 核心合集, Biological Abstracts®, BIOSIS Citation Index™, BIOSIS Previews®, CABI: CAB Abstracts® and Global Health®, 中国科学引文数据库™, Current Contents Connect®, Data Citation Index™, Derwent Innovations Index™, and FSTA® - 食品科学数据库. The search bar contains the example text '示例: oil spill\* mediter' and a '检索' (Search) button. Below the search bar, there are sections for '基本检索' (Basic Search) and '时间跨度' (Time Span) with a '所有年份' (All Years) option. The bottom of the page features a footer with 'Web of Science 中的新增功能' (New features in Web of Science), '我的 Web of Science' (My Web of Science), 'SCI SSCI A&HCI' (with a '了解详情' link), '客户反馈和技术支持' (Customer feedback and technical support), and '其他资源' (Other resources). A purple banner at the very bottom contains the text '英文论文从写到投的一站式解决方案。' (One-stop solution for English papers from writing to submission) and '汤森路透-AJE 学术写作助手' (Thomson Reuters-AJE Academic Writing Assistant).

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- Conference Proceedings Citation Index - Social Sciences & Humanities (CPCI-SSH) --1990年至今

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Book Citation Index - Social Sciences & Humanities (BKCI-SSH) --2005年至今

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- Current Chemical Reactions (CCR-EXPANDED) --1980年至今  
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- **ESI** **22**

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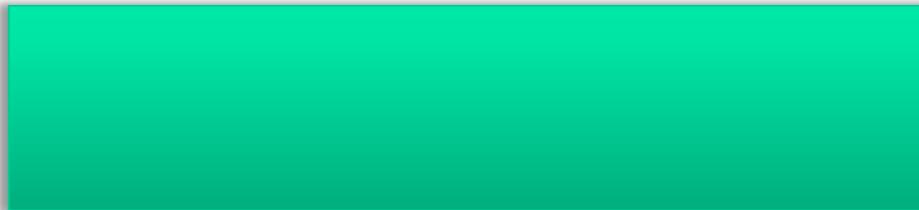
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Display items with at least: <input type="text" value="0"/> Citation(s)						
Sorted by: Citations <input type="button" value="SORT AGAIN"/>						
1 - 20 (of 966)			<input type="button" value="&lt;&lt;"/> <input type="button" value="&lt;"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="7"/> <input type="button" value="8"/> <input type="button" value="9"/> <input type="button" value="10"/> <input type="button" value="&gt;"/> <input type="button" value="&gt;&gt;"/>		Page 1 of 49	
	View		Institution	Papers	Citations	Citations Per Paper
1	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">HARVARD UNIV</a>	6,891	71,491	10.37
2	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">UNIV MICHIGAN</a>	5,352	52,715	9.85
3	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">UNIV N CAROLINA</a>	5,852	47,111	8.05
4	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">UNIV CALIF LOS ANGELES</a>	4,524	43,834	9.69
5	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">UNIV WASHINGTON</a>	4,329	38,921	8.99
6	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">COLUMBIA UNIV</a>	4,542	35,899	7.90
7	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">JOHNS HOPKINS UNIV</a>	3,787	35,287	9.32
8	<input type="button" value="i"/>	<input type="button" value="l"/>	<a href="#">UNIV WISCONSIN</a>	4,581	35,270	7.70
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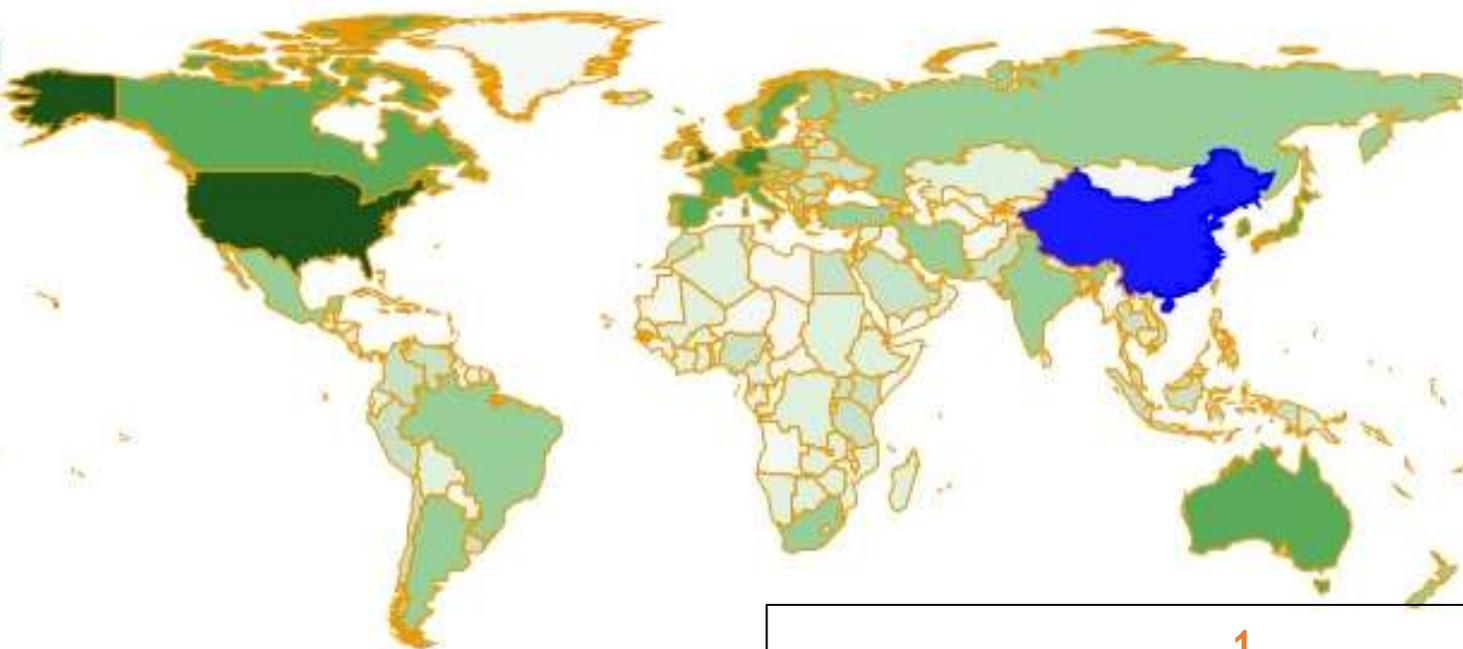
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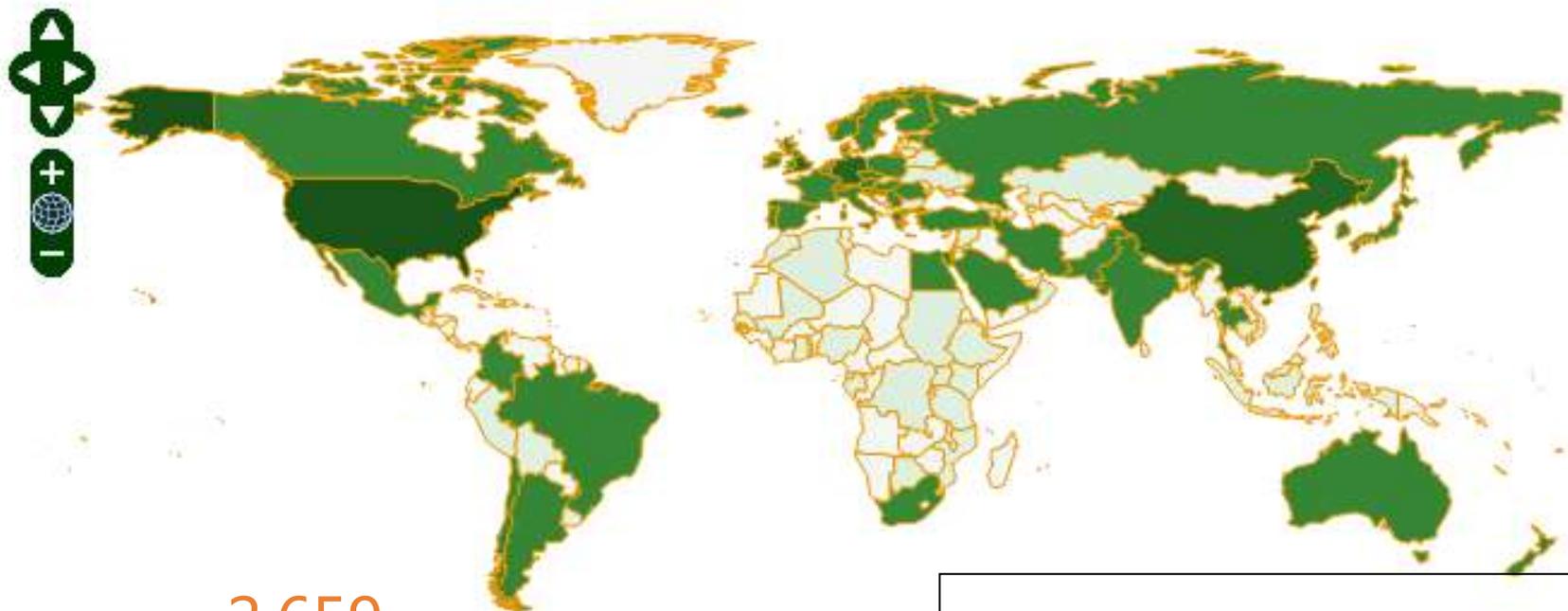
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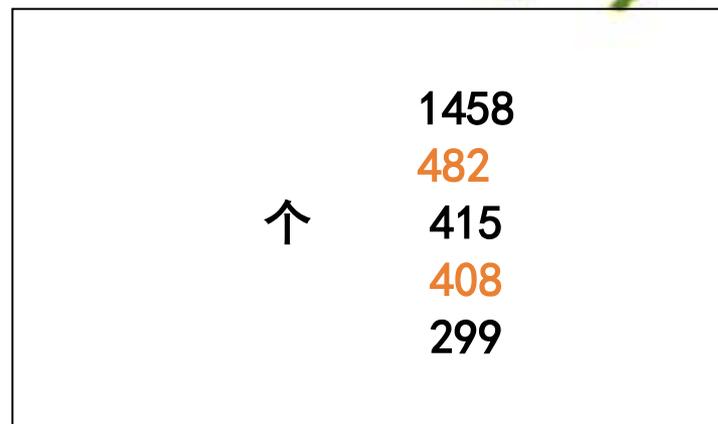
128,498

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	67,068
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↑	14,191

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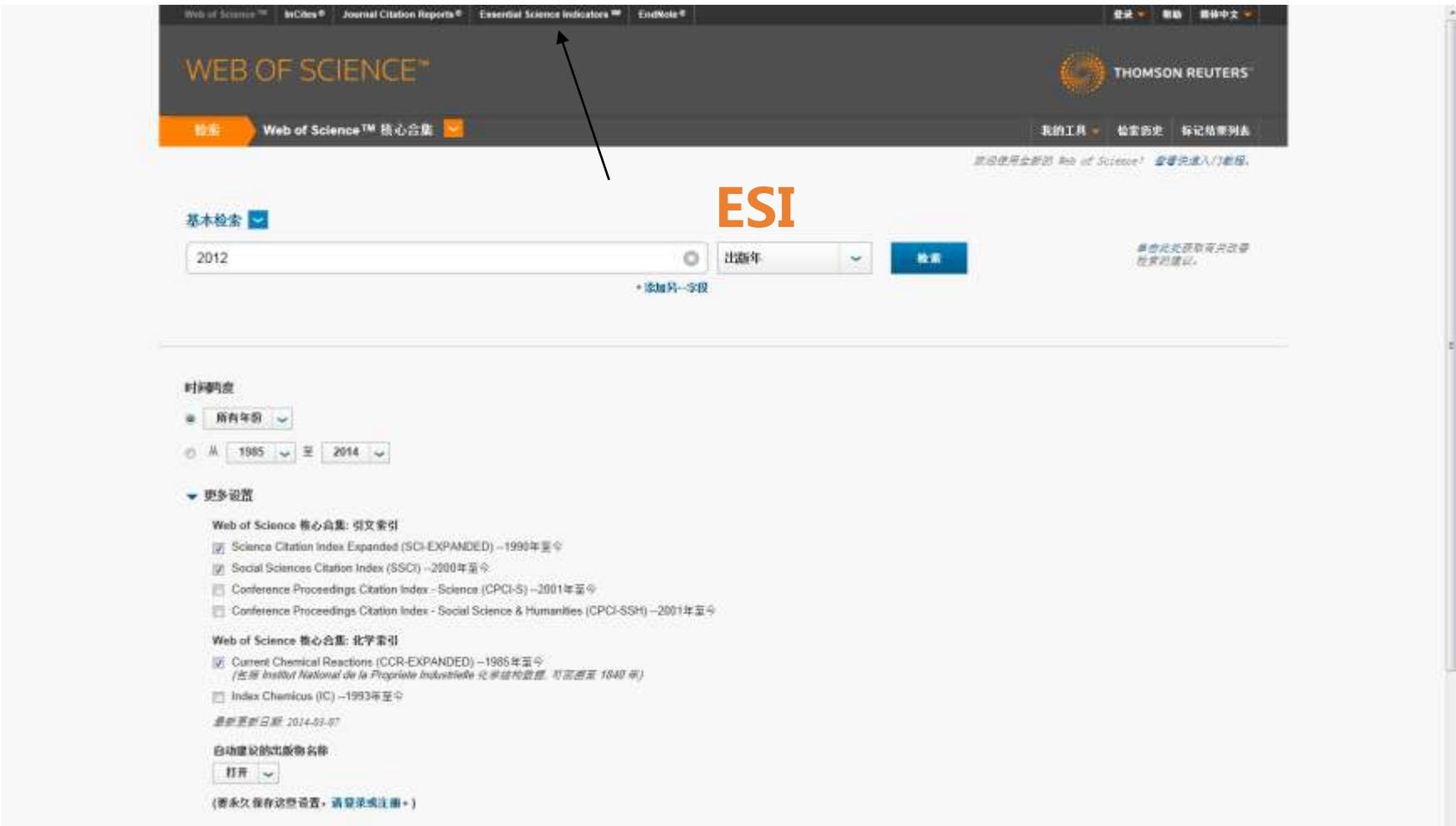
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<b>Most Cited Papers:</b>	<a href="#">Highly Cited Papers (last 10 years)</a> <a href="#">Hot Papers (last 2 years)</a>	
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	0-9 A B C D		K L M N O P Q R S T U V W X Y Z
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	<ul style="list-style-type: none"><li>• Enter WEINBERG to search for citation data for any author whose last name is WEINBERG.</li><li>• Enter WEINBERG RA to search for citation data for any author whose last name is WEINBERG and whose only initials are RA.</li><li>• Enter WEINBERG R* to search for citation data for any author whose last name is WEINBERG, whose first initial is R, and who may have other subsequent initials (the asterisk stands for possible subsequent initials).</li><li>• If an author's last name includes spaces (e.g., Van Horn, de la Torre), enter this name without the space(s). For example, enter VANHORN * for Van Horn, DELOSRIOS * for de los Rios.</li><li>• If an author's last name includes a nonalphanumeric character (e.g., O'Donnell, Aguilar-Benitez), enter this name without the character. For example, enter O'DONNELL for O'Donnell, AGUILARBENITEZ for Aguilar-Benitez.</li></ul>	<b>BEST SEARCH EXAMPLES</b>	

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## Konstantin Novoselov

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Sorted by: Citations SORT AGAIN

1 - 20 (of 4933)

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	View	Scientist	Papers	Citations	Citations Per Paper
1		WANG, Y	2,886	33,278	11.53
2		ZHANG, Y	2,725	28,058	10.30
3		YANG, Y	1,409	26,850	19.06
4		WANG, T	2,665	26,118	9.80
5		LIU, Y	2,832	24,597	8.69
6		LI, Y	2,242	23,046	10.28
7		LI, J	2,373	22,411	9.44
8		LIU, J	1,617	21,243	13.14
9		ZHANG, J	2,249	19,560	8.70
10		WANG, L	2,002	18,188	9.08
11		ZHANG, H	1,672	17,998	10.76
12		KIM, J	1,516	16,548	10.92
13		WANG, H	1,967	16,501	8.39
14		WANG, X	1,673	16,472	9.85
15		ZHANG, L	2,005	16,430	8.19
16		LI, J	1,562	15,897	10.24
17		NOVOSELOV, KS	17	15,975	938.71
18		GEIM, AK	13	15,923	1,224.85
19		LEE, JH	1,586	14,949	9.43
20		CHEN, J	1,406	14,733	10.48

## GEIM AK

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15,975

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## TOP PAPERS FOR NOVOSELOV, KS IN MATERIALS SCIENCE

Sorted by: Citations	
1 - 12 (of 12)	Page 1 of 1
1 Citations: 10,904	
Title:	THE RISE OF GRAPHENE
Authors:	GEIM AK, NOVOSELOV KS
Source:	NAT MATER 6 (3): 183-191 MAR 2007
Addresses:	Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England.
Field:	MATERIALS SCIENCE
2 Citations: 2,386	
Title:	UPPER AND LOWER SURFACE ELECTRIC CHARGE INDUCED IN GRAPHENE
Authors:	SCHIEDIN P, GEIM AK, MOROZOV SY, HILL RW, BLAKE P, KATSNERIS DM, NOVOSELOV KS
Source:	NAT MATER 6 (9): 652-655 SEP 2007
Addresses:	Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England. Russian Acad Sci, Inst Microelect Technol, Chernogolovka 142432, Russia. Univ Nijmegen, Inst Mol & Mat, NL-6525 ED Nijmegen, Netherlands.
Field:	MATERIALS SCIENCE
3 Citations: 954	
Title:	MONITORING DOPANTS BY RAMAN SCATTERING IN AN ELECTROCHEMICALLY TOP-GATED GRAPHENE TRANSISTOR
Authors:	DAS A, PISANA S, CHAKRABORTY B, PISCANEC S, SAHA SK, WAGHARE UV, NOVOSELOV KS, ERISHANMURTHY HR, GEIM AK, FERFARI AC, GOOD AK
Source:	NAT NANOTECHNOL 3 (4): 210-215 APR 2008
Addresses:	Univ Cambridge, Dept Engrg, Cambridge CB3 0FA, England. Indian Inst Sci, Dept Phys, Bangalore 560012, Karnataka, India. Jawahar Lal Nehru Ctr Adv Sci Res, Theoret Sci Unit, Bangalore 560004, Karnataka, India. Univ Manchester, Dept Phys & Astron, Manchester M13 9PL, Lancs, England.

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Andre Geim

Konstantin Novoselov

graphene

2010

Konstantin Novoselov

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安德列·盖姆 康斯坦丁·诺沃肖洛夫发表的石墨烯 (graphene) 论文

The screenshot shows the Web of Science interface for the article "The rise of graphene". The page includes a navigation bar with logos for Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, and EndNote. The article title "The rise of graphene" is prominently displayed, along with the authors' names: Geim, AK (Geim, A. K.); Novoselov, KS (Novoselov, K. S.). The journal information is listed as NATURE MATERIALS, Volume 6, Issue 3, Pages 183-191, published in March 2007. The abstract discusses the rapid rise of graphene in materials science and condensed-matter physics, highlighting its exceptional properties and potential applications. The keywords section lists terms such as DIRAC FERMIONS, BERRYS PHASE, ELECTRONIC-STRUCTURE, BILAYER GRAPHENE, GRAPHITE, FILMS, GAS, SEMICONDUCTORS, NUCLEATION, and SURFACE. The author information section provides contact details for Geim, AK, including his affiliation with the University of Manchester and his email address. The page also features a sidebar with citation metrics, including a total of 11,970 citations and a list of related records. The bottom of the page includes a section for the source of the record, identified as Web of Science Core Collection, and a note about suggested corrections.

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### The rise of graphene

作者: Geim, AK (Geim, A. K.); Novoselov, KS (Novoselov, K. S.)

NATURE MATERIALS  
卷: 6 期: 3 页: 183-191  
DOI: 10.1038/nmat1049  
出新年: MAR 2007  
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#### 摘要

Graphene is a rapidly rising star on the horizon of materials science and condensed-matter physics. This strictly two-dimensional material exhibits exceptionally high crystal and electronic quality, and, despite its short history, has already revealed a cornucopia of new physics and potential applications, which are briefly discussed here. Whereas one can be certain of the realism of applications only when commercial products appear, graphene no longer requires any further proof of its importance in terms of fundamental physics. Owing to its unusual electronic spectrum, graphene has led to the emergence of a new paradigm of 'relativistic' condensed-matter physics, where quantum relativistic phenomena, some of which are unobservable in high-energy physics, can now be mimicked and tested in table-top experiments. More generally, graphene represents a conceptually new class of materials that are only one atom thick, and, on this basis, offers new insights into low-dimensional physics that has never ceased to surprise and continues to provide a fertile ground for applications.

#### 关键词

KeyWords Plus: DIRAC FERMIONS; BERRYS PHASE; ELECTRONIC-STRUCTURE; BILAYER GRAPHENE; GRAPHITE; FILMS; GAS; SEMICONDUCTORS; NUCLEATION; SURFACE

#### 作者信息

通讯作者地址: Geim, AK (通讯作者)

+ Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Oxford Rd, Manchester M13 9PL, Lancs, England.  
地址:  
+ [ 1 ] Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England  
电子邮件地址: geim@man.ac.uk; kostya@graphene.org  
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## Konstantin Novoselov



5 Citations: 329

**Title:** FLUOROGRAPHENE: A TWO-DIMENSIONAL COUNTERPART OF TEFLON

**Authors:** NAIR RR; [REN WC](#); [JALIL R](#); RIAZ I; KRAVETS VG; BRITNELL L; [BLAKE P](#); [SCHEDIN P](#); MAYOROV AS; [YUAN ST](#); [KATSNELSON MI](#); [CHENG HM](#); STRUPINSKI W; BULUSHEVA LG; OKOTRUB AV; [GRIGORIEVA IV](#); GRIGORENKO AN; [NOVOSELOV KS](#); [GEIM AK](#)

**Source:** [SMALL](#)  
6 (24): 2877-2884 DEC 20 2010

**Addresses:** [Univ Manchester](#), Sch Phys & Astron, Manchester M13 9PL, Lancs, [England](#).  
[Chinese Acad Sci](#), Inst Met Res, Shenyang Natl Lab Mat Sci, Shenyang 110016, Peoples R China.  
[Radboud Univ Nijmegen](#), Inst Mol & Mat, NL-6525 AD Nijmegen, [Netherlands](#).  
Inst Elect Mat Technol, PL-01919 Warsaw, [Poland](#).  
SB RAS, Nikolaev Inst Inorgan Chem, Novosibirsk 630060, [Russia](#).

**Field:** [MATERIALS SCIENCE](#)

6 Citations: 160

**Title:** VERTICAL FIELD-EFFECT TRANSISTOR BASED ON GRAPHENE-WS2 HETEROSTRUCTURES FOR FLEXIBLE AND TRANSPARENT ELECTRONICS

**Authors:** GEORGIU T; [JALIL R](#); BELLE BD; BRITNELL L; GORBACHEV RV; [MOROZOV SV](#); [KIM YI](#); GHOLINIA A; HAIGH SJ; MAKAROVSKY O; EAVES L; PONOMARENKO LA; [GEIM AK](#); [NOVOSELOV KS](#); MISHCHENKO A

**Source:** [NAT NANOTECHNOL](#)  
8 (2): 100-103 FEB 2013

**Addresses:** [Univ Manchester](#), Sch Phys & Astron, Manchester M13 9PL, Lancs, [England](#).  
[Univ Manchester](#), Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, [England](#).  
Inst Microelect Technol RAS, Chernogolovka 142432, [Russia](#).  
[Seoul Natl Univ](#), Coll Nat Sci, Dept Chem, Seoul 151747, [South Korea](#).  
[Univ Manchester](#), Ctr Mat Sci, Manchester M1 7HS, Lancs, [England](#).  
[Univ Nottingham](#), Sch Phys & Astron, Nottingham NG7 2RD, [England](#).

**Field:** [MATERIALS SCIENCE](#)

7 Citations: 128

**Title:** HUNTING FOR MONOLAYER BORON NITRIDE: OPTICAL AND RAMAN SIGNATURES

**Authors:** GORBACHEV RV; RIAZ I; NAIR RR; [JALIL R](#); BRITNELL L; BELLE BD; [HILL EW](#); [NOVOSELOV KS](#); [WATANABE K](#); [TANIGUCHI T](#); [GEIM AK](#); [BLAKE P](#)

**Source:** [SMALL](#)  
7 (4): 465-468 FEB 18 2011

**Addresses:** [Univ Manchester](#), Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs  
Natl Inst Mat Sci, Tsukuba, Ibaraki 3050044, [Japan](#).

**Field:** [MATERIALS SCIENCE](#)

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Page 1 of 247

	View	Scientist	Papers	Citations	Citations Per Paper
1		WANG, Y	2,886	33,278	11.53
2		ZHANG, Y	2,725	28,058	10.30
3		YANG, Y	1,409	26,850	19.06
4		WANG, T	2,665	26,118	9.80
5		LIU, Y	2,832	24,597	8.69
6		LI, Y	2,242	23,046	10.28
7		LI, J	2,373	22,411	9.44
8		LIU, J	1,617	21,243	13.14
9		ZHANG, J	2,249	19,560	8.70
10		WANG, L	2,002	18,188	9.08
11		ZHANG, H	1,672	17,998	10.76
12		KIM, J	1,516	16,548	10.92
13		WANG, H	1,967	16,501	8.39
14		WANG, X	1,673	16,472	9.85
15		ZHANG, L	2,005	16,430	8.19
16		LI, J	1,562	15,897	10.24
17		NOVOSELOV, KS	17	15,975	938.71
18		GRIN, AK	13	15,923	1,224.85
19		LEE, JH	1,586	14,949	9.43
20		CHEN, J	1,406	14,733	10.48

1 - 20 (of 4933)

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1	<input type="checkbox"/>	<a href="#">PHYSICS</a>	122	55,988	458.92
2	<input type="checkbox"/>	<a href="#">MATERIALS SCIENCE</a>	17	15,975	939.71
	<input type="checkbox"/>	<a href="#">ALL FIELDS*</a>	160	72,827	455.17

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	View	Scientist	Papers	Citations	Citations Per Paper
121		<a href="#">TAKAHASHI, K</a>	5,157	75,480	14.64
122		<a href="#">NAKAMURA, Y</a>	4,811	75,329	15.66
123		<a href="#">KIM, YS</a>	6,953	74,787	10.76
124		<a href="#">TAKAHASHI, H</a>	5,119	74,330	14.52
125		<a href="#">WANG, K</a>	6,217	74,232	11.94
126		<a href="#">KIM, D</a>	6,422	74,099	11.54
127		<a href="#">KUNAR, K</a>	6,756	73,908	10.94
128		<a href="#">BANERJEE, S</a>	4,664	73,325	15.72
129		<a href="#">KOBAYASHI, Y</a>	5,610	73,251	13.06
130		<a href="#">LIU, M</a>	7,023	73,248	10.43
131		<a href="#">ZHANG, P</a>	6,078	72,965	12.00
132		<a href="#">NOVOSELOV, KS</a>	160	72,827	455.17
133		<a href="#">SATO, K</a>	5,797	72,774	12.55
134		<a href="#">WATANABE, M</a>	5,119	72,250	14.11
135		<a href="#">SATO, T</a>	6,089	72,243	11.86
136		<a href="#">WATANABE, T</a>	5,594	71,439	12.77
137		<a href="#">KIM, SI</a>	7,440	71,299	9.58
138		<a href="#">LI, N</a>	6,299	71,094	11.29
139		<a href="#">CHEN, M</a>	5,647	70,633	12.51
140		<a href="#">LI, P</a>	6,356	69,638	10.96

121 - 140 (of 82801)



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1 - 20 (of 70)

Navigation icons

Page 1 of 4

1 Citations: 15,048

**Title:** ELECTRIC FIELD EFFECT IN ATOMICALLY THIN CARBON FILMS  
**Authors:** NOVOSELOV, KS; GEIM, AK; MOROZOV, SV; IIANG, D; ZHANG, Y; DUBONYS, SV; GRIGORIEVA, IV; PIRSOV, AA  
**Source:** SCIENCE  
306 (5696): 666-669 OCT 22 2004  
**Addresses:** Univ Manchester, Dept Phys, Manchester M13 9PL, Lancs, England;  
Russian Acad Sci, Inst Microelect Technol, Chernogolovka 142432, Russia

**Field:** PHYSICS

2 Citations: 10,904

**Title:** THE RISE OF GRAPHENE  
**Authors:** GEIM, AK; NOVOSELOV, KS  
**Source:** NAT MATER  
6 (3): 183-191 MAR 2007  
**Addresses:** Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England

**Field:** MATERIALS SCIENCE

3 Citations: 7,162

**Title:** TWO-DIMENSIONAL GAS OF MASSLESS DIRAC FERMIONS IN GRAPHENE  
**Authors:** NOVOSELOV, KS; GEIM, AK; MOROZOV, SV; IIANG, D; KATSNELSON, MI; GRIGORIEVA, IV; DUBONYS, SV; PIRSOV, AA  
**Source:** NATURE  
438 (7065): 197-200 NOV 10 2005  
**Addresses:** Univ Manchester, Manchester Ctr Mesosci & Nanotechnol, Manchester M13 9PL, Lancs, England

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- Enter WEINBERG R\* to search for citation data for any author whose last name is Weinberg, whose first initial is R, and who may have other subsequent initials (the asterisk stands for possible subsequent initials).
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- If an author's last name includes a nonalphanumeric character (e.g., O'Donnell, Aguilar-Benitez), enter this name without the character. For example, enter O'DONNELL for O'Donnell, AGUILARBENITEZ for Aguilar-Benitez.

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96.98	2		<a href="#">MATERIALS SCIENS</a>	113	10,96
106.7	3		<a href="#">PHYSICS</a>	88	9,34
82.98	4		<a href="#">ALL FIELDS</a>	477	39,58

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## TOP PAPERS FOR XIA, YN IN MATERIALS SCIENCE

Sorted by: Citations SORTAGAN

1 - 20 (of 31) Page 1 of 2

1 Citations: 2,200 WEB OF SCIENCE

**Title:** ELECTROSPINNING OF NANOFIBERS: REINVENTING THE WHEEL?  
**Authors:** LI D, XIA YN  
**Source:** ADVAN MATER 16 (14): 1151-1170 JUL 19 2004  
**Addresses:** Univ Washington, Dept Chem, Seattle, WA 98195 USA  
**Field:** MATERIALS SCIENCE

2 Citations: 462 WEB OF SCIENCE

**Title:** SUPERPARAMAGNETIC COLLOIDS: CONTROLLED SYNTHESIS AND NICHE APPLICATIONS  
**Authors:** IRONG U, TENG XM, WANG Y, YANG H, XIA YN  
**Source:** ADVAN MATER 19 (1): 33-60 JAN 8 2007  
**Addresses:** Univ Rochester, Dept Chem Engr, Rochester, NY 14627 USA  
Univ Washington, Dept Chem, Seattle, WA 98195 USA  
**Field:** MATERIALS SCIENCE

3 Citations: 410 RESEARCH FRONT WEB OF SCIENCE

**Title:** GOLD NANOCAGES COVERED BY SMART POLYMERS FOR CONTROLLED RELEASE WITH NEAR-INFRARED LIGHT  
**Authors:** YAVUZ NS, CHENG YY, CHEN LY, COBLEY CM, ZHANG Q, BYCENGA M, XIE TW, KIM C, SONG KH, SCHWARTZ AG, HANG LHV, XIA YN  
**Source:** NAT MATER 8 (12): 935-939 DEC 2009  
**Addresses:** Washington Univ, Dept Biomed Engr, St Louis, MO 63130 USA  
**Field:** MATERIALS SCIENCE

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2.41	LI	2007	Li, X	1,187	10,983	
29.98	LI	2007	Li, X	1,133	10,959	
3.90	LI	2007	Li, X	1,102	10,912	
13.89	LI	2007	Li, X	836	10,910	
3.86	LI	2007	Li, X	1,800	10,910	
17.64	LI	2007	Li, X	616	10,802	
22.08	LI	2007	Li, X	657	10,777	
3.17	LI	2007	Li, X	1,171	10,740	
8.70	LI	2007	Li, X	1,227	10,673	
14.12	LI	2007	Li, X	790	10,635	
8.42	LI	2007	Li, X	1,124	10,466	
13.61	LI	2007	Li, X	866	10,338	
2.66	LI	2007	Li, X	1,085	10,331	
11.82	LI	2007	Li, X	822	10,187	
27.91	LI	2007	Li, X	659	10,019	
7.48	LI	2007	Li, X	1,317	9,863	
12.21	LI	2007	Li, X	836	9,748	
13.07	LI	2007	Li, X	800	9,655	
4.80	LI	2007	Li, X	1,068	9,611	
3.14	LI	2007	Li, X	1,049	9,572	

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	View	Scientist	Papers	Citations	Citations Per Paper
421		<a href="#">CHEN, R</a>	2,677	39,958	14.93
422		<a href="#">ITO, H</a>	3,143	39,968	12.72
423		<a href="#">IATN, S</a>	2,659	39,940	15.02
424		<a href="#">PARK, SY</a>	3,575	39,912	11.16
425		<a href="#">XU, Q</a>	3,449	39,907	11.57
426		<a href="#">GAO, J</a>	3,876	39,825	10.27
427		<a href="#">SCHNEIDER, DP</a>	483	39,774	82.35
428		<a href="#">YANG, X</a>	4,146	39,680	9.57
429		<a href="#">KIM, DW</a>	3,055	39,649	12.98
430		<a href="#">DING, L</a>	1,775	39,609	22.31
431		<a href="#">CHEN, XM</a>	2,652	39,598	14.93
432		<a href="#">XIA, YN</a>	477	39,582	82.98
433		<a href="#">KIM, A</a>	3,479	39,575	11.38
434		<a href="#">BAI, Y</a>	2,698	39,546	14.66
435		<a href="#">XU, M</a>	3,237	39,531	12.21
436		<a href="#">YOSHIDA, S</a>	2,586	39,433	15.25
437		<a href="#">PATEL, S</a>	1,855	39,417	21.25
438		<a href="#">TAKAHASHI, S</a>	3,380	39,337	11.64
439		<a href="#">XU, Z</a>	3,124	39,204	12.55
440		<a href="#">ZHOU, Q</a>	3,429	39,198	11.43

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Navigation: <<< [21] | 27 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 ] >>>

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1 Citations: 2,200 [Cite](#) [Research Front](#) [Hist of Scancy](#)  
Title: ELECTROSPINNING OF NANOFIBERS: REINVENTING THE WHEEL?  
Authors: [LI D.](#) [XIA YN](#)  
Source: [ADVAN MATER](#)  
16 (14): 1151-1170 JUL 19 2004  
Addresses: [Univ Washington](#), Dept Chem, Seattle, WA 98195 USA.  
Field: [MATERIALS SCIENCE](#)

2 Citations: 1,606 [Cite](#) [Research Front](#) [Hist of Scancy](#)  
Title: SHAPE-CONTROLLED SYNTHESIS OF METAL NANOCRYSTALS: SIMPLE CHEMISTRY MEETS COMPLEX PHYSICS?  
Authors: [XIA YN.](#) [XIONG YI.](#) [LIM B.](#) [SERBALAK SE](#)  
Source: [ANGEW CHEM INT ED](#)  
48 (1): 60-103 2009  
Addresses: [Washington Univ.](#), Dept Biomed Engrn, St Louis, MO 63130 USA.  
[Univ Washington](#), Dept Chem, Seattle, WA 98195 USA.  
Field: [CHEMISTRY](#)

3 Citations: 1,017 [Cite](#) [Research Front](#) [Hist of Scancy](#)  
Title: Pd-Pt Bimetallic Nanodendrites with High Activity for Oxygen Reduction  
Authors: [LIM B.](#) [JIANG MJ.](#) [CAMARGO PHE.](#) [CHO EC.](#) [TAO J.](#) [LIU XM.](#) [ZHU YN.](#) [XIA YN](#)  
Source: [SCIENCE](#)  
324 (5932): 1302-1305 JUN 5 2009

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		Microbiology	<i>ample: SALK INST*</i>
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Citations: 42

**Title:** GWAS OF 126,659 INDIVIDUALS IDENTIFIES GENETIC VARIANTS ASSOCIATED WITH EDUCATIONAL ATTAINMENT

**Authors:** RIBTVELD CA, WEDLAND SE, DERRINGER J, [YANG T](#), [ESKO T](#), MARTIN BM, WESTRA HJ, SHAHBAZOV K, ABDOLLAGUI A, [AGRAWAL A](#), ALBRECHT E, ALIZADEH BZ, [AMIN N](#), BARNARD J, BAUMEISTER SE, BENKE KS, BIELAK LF, BOATMAN JA, BOYLE PA, [DAVIES G](#), DE LEEUW C, ERLIND N, EVANS DS, FERGMANN R, [FISCHER K](#), [GIRGER C](#), GJESSING HK, HAGG S, [HARRIS JR](#), [HAYWARD C](#), HOLZAPFEL C, IBRAHIM-VERBAAS CA, [INGELSSON E](#), JACOBSSON B, JOSHI PK, JUGESSUR A, [KAANKINEN M](#), KAMONI S, KARJALAINEN J, [KOLCIC I](#), KRISTIANSSON K, [KUTALIK Z](#), LAHTI J, [LEE SH](#), [LIN P](#), LIND PA, [LIU YM](#), LOHMAN K, LOITFELDER M, MCMAHON G, VIDAL FM, MBIRELLES O, MILANI L, MYHRE R, NUOTIO ML, OLDMEADOW CJ, PETROVIC KE, PEYROT WJ, [POLASEK O](#), QUAYE L, REINMAA E, [RICE TP](#), RIZZI TS, [SCHMIDT H](#), [SCHMIDT R](#), [SMITH AV](#), [SMITH JA](#), [TANAKA T](#), [TERREACCIANO A](#), VAN DER LOOS HJHM, [VITART V](#), [VOLZKE H](#), WELLMANN J, YU L, ZHAO W, ALLIK J, ATTIA JR, BANDINELLI S, BASTARDOT F, BRADCHAMP J, [BENNETT DA](#), [BERGER K](#), [BIHRET LI](#), [BOOMSA DI](#), [BULTMANN U](#), [CAMPELL H](#), CHARRIS CF, CHERRAS L, [CHENG MK](#), [CICCA F](#), [DE ANDRADE M](#), [DE JAGER PL](#), DE NEVE JB, [DEARY IJ](#), DEDOUSSIS GV, [DROUKAS P](#), DIMITRIOU M, [ERIKSDOTTIR G](#), ELDERSON MP, [ERIKSSON IG](#), [EVANS DM](#), PAUL JD, [FRERCCCI L](#), GARCIA MF, [GRONBERG H](#), GUOMASON V, [HALL P](#), [HARRIS JW](#), [HARRIS TB](#), [HASTIE ND](#), [HEATH AC](#), [HERNANDEZ DG](#), [HOFFMANN W](#), [HOFFMAN A](#), [HOLLE R](#), HOLLIDAY EG, [HOTIENGA II](#), [IACONO MG](#), [ILLIG T](#), [JARVELIN MR](#), [KAHONEN M](#), [KAPRIO J](#), KIRKPATRICK RM, KOWGIER M, LATVALA A, [LAWNER LJ](#), [LAHLOR DA](#), [LEHTIMAKI T](#), [LI JM](#), [LICHTENSTEIN P](#), [LICHTNER P](#), LIBWALD DC, MADSEN PA, [MAGNUSSEN PKE](#), [MAKINEN TB](#), MASALA M, [MCQUE M](#), [KRISPALU A](#), [MIELCK A](#), [MILLER MB](#), [MONTGOMERY GW](#), [MURKERTSE S](#), [NOZELT DR](#), [OOSTRA BA](#), [PALMER LJ](#), [PALOTIE A](#), [PENNING BRUH](#), [PEROLA M](#), PEYSER PA, PREISIG M, [RAIKONEN K](#), [RAITAKARI OT](#), [SEALO A](#), [RING SM](#), [RIPATTI S](#), [RIVADENEIRA E](#), [RUDAN J](#), [RUSTICHINI A](#), [SALOMAA V](#), SARIN AP, [SCHLESSINGER D](#), [SCOTT RT](#), [SNIDER H](#), ST POURCAIN B, [STARR IN](#), [SUL JH](#), [SURAKKA I](#), [SVENTO R](#), [THURER A](#), [TIEMEIER H](#), VAN ROOIJ PJA, VAN WAGONER DR, [VARTAINEN E](#), [VIKKARI T](#), [WOLLENSTEIDER P](#), [VONK JM](#), [WARDER G](#), WEIR DR, [WICHMANN HK](#), [WIDEN E](#), [WILLERSEN G](#), [WILSON JF](#), [WRIGHT AP](#), CONLEY D, DAVEY-SMITH G, [FRANKE L](#), GROENEN PJF, [HOFFMAN A](#), [IOHANNESSEN M](#), KARDIA SLR, [KRUGER RW](#), [LAIRSON D](#), [MARTIN NG](#), [MEYER MN](#), [ROSTHMA D](#), THIRIK AR, [TIMPSON NJ](#), [UITERLINDEN AG](#), [VAN DULIN CM](#), [VISSCHER PM](#), BENJAMIN DJ, CESARINI D, KOELLINGER PD

**Source:** [SCIENCE](#) 340 (6139): 1467-1471 JUN 21 2013

**Addresses:** Erasmus Univ, Erasmus Sch Econ, Dept Appl Econ, NL-3000 DR Rotterdam, [Netherlands](#).  
Erasmus MC, Dept Epidemiol, NL-3000 CA Rotterdam, [Netherlands](#).  
[Queensland Inst Med Res](#), Brisbane, Qld 4006, [Australia](#).  
Univ Colorado, Inst Behav Genet, Boulder, CO 80309 USA.  
[Univ Queensland](#), Princess Alexandra Hosp, Diamantina Inst, Brisbane, Qld 4102, [Australia](#).  
[Univ Tartu](#), Estonian Genome Ctr, EE-51010 Tartu, [Estonia](#).  
[Univ Queensland](#), Sch Psychol, Brisbane, Qld 4072, [Australia](#).  
[Univ Groningen](#), Univ Med Ctr Groningen, Dept Genet, NL-9713 GZ Groningen, [Netherlands](#).  
[Univ Queensland](#), Queensland Brain Inst, Brisbane, Qld 4072, [Australia](#).  
Vrije Univ Amsterdam, Dept Biol Psychol, NL-1081 BT Amsterdam, [Netherlands](#).  
[Washington Univ](#), Dept Psychiat, Sch Med, St Louis, MO 63110 USA.  
German Res Ctr Environm Hlth, Helmholtz Zentrum Munchen, Inst Genet Epidemiol, D-85764 Neuherberg, Germany.  
[Univ Groningen](#), Univ Med Ctr Groningen, Dept Epidemiol, NL-9700 RB Groningen, [Netherlands](#).  
Erasmus MC, Dept Epidemiol, Genet Epidemiol Unit, NL-3000 CA Rotterdam, [Netherlands](#).  
Cleveland Clin, Heart & Vasc & Lerner Res Inst, Cleveland, OH 44195 USA.  
Univ Med Greifswald, Inst Community Med, D-17489 Greifswald, Germany.  
[Univ Toronto](#), Samuel Lunenfeld Res Inst, Mt Sinai Hosp, Toronto, ON M5G 1X5, [Canada](#).  
[Univ Michigan](#), Sch Publ Hlth, Dept Epidemiol, Ann Arbor, MI 48109 USA.  
[Univ Minnesota](#), Div Biostat, Minneapolis, MN 55455 USA.

## 追踪化学学科前沿——热点论文

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## HOT PAPERS IN CHEMISTRY

Sorted by: Citations

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1 - 20 (of 324)

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1 Citations: 641

**Title:** SEQUENTIAL DEPOSITION AS A ROUTE TO HIGH-PERFORMANCE PEROVSKITE-SENSITIZED SOLAR CELLS

**Authors:** BURSCHKA J., PELLET N., MOON S.J., HUMPHRY-BAKER R., GAO P., NAZARUDDIN M.V., GRATZEL M.

**Source:** NATURE 499 (7458): S16-+ JUL 18 2013

**Addresses:** Swiss Fed Inst Technol, Dept Chem & Chem Engr, Lab Photon & Interfaces, CH-1015 Lausanne, Switzerland.  
Max Planck Inst Solid State Res, D-70569 Stuttgart, Germany.

**Field:** CHEMISTRY

2 Citations: 414

**Title:** THE CHEMISTRY OF TWO-DIMENSIONAL LAYERED

**Authors:** CHEEMALLA M., SHIN HS., EDA G., LI J.T.

**Source:** NAT CHEM 5 (4): 263-275 APR 2013

**Addresses:** Rutgers State Univ, Piscataway, NJ 08854  
UNIST, Interdisciplinary Sch Green Energy  
UNIST, Low Dimension Carbon Mat Ctr, Ulsan (K)  
Natl Univ Singapore, Dept Phys, Singapore  
Natl Univ Singapore, Dept Chem, Singapore  
Natl Univ Singapore, Graphene Res Ctr, SI  
Acad Sinica, Inst Atom & Mol Sci, Taipei  
National Technol Univ, Sch Mat Sci & Engr,

**Field:** CHEMISTRY

3 Citations: 321

**Title:** METAL-ORGANIC FRAMEWORKS AND SELF-ASSEMBLED ORGANIC MATERIALS

**Authors:** COOK TR., ZHENG YR., STANG PJ.

**Source:** CHEM REV 113 (1): 734-777 JAN 2013

**Addresses:** UNIV UTAH, DEPT CHEM, SALT LAKE CITY, UT

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1 Citations: 343

**Title:** IYE-CRYSTALLINE SILAR CELLS WITH 12% EFFICIENCY ACHIEVED THROUGH THE MOLECULAR ENGINEERING OF PEROVSKITE SENSITIZERS

**Authors:** KANEKO S., TAGA A., GAO P., HUMPHRY-BAKER R., CHEN D., ARAMI-AKANI F., TAYEBI M., WITKOWSKI J., NAKAMURA M., GRATZEL M.

**Source:** NAT CHEM 4 (2): 262-267 MAR 2014

**Addresses:** Ecole Polytech Fed Lausanne, IPI, CH-1015 Lausanne, Switzerland.  
Ecole Polytech Fed Lausanne, Lab Composite Chem & Surface LCC, CH-1015 Lausanne, Switzerland.

2 Citations: 186

**Title:** CARBOXYLATE-ASSISTED FUTHRENE-CATALYZED ALKYNE AROMATIZATION BY C-C AND C-H BOND FUNCTIONALIZATION

**Authors:** KISHIMOTO T.

**Source:** ADVANT CHEM SER 41 (2): 381-395 FEB 18 2014

**Addresses:** Ruhr-Universitaet, Inst Organ & Bioorg Chem, D-44781 Bochum, Germany.

3 Citations: 95

**Title:** THE CROSS-SENSITIVE COUPLING OF C-SP<sup>2</sup>-H BONDS: A VERSATILE STRATEGY FOR C-C BOND FORMATION

**Authors:** CHEN D., EMMER T., LI J.T.

**Source:** NATURE CHEM 6 (2): 14-20 JAN 9 2014

**Addresses:** McGill Univ, Dept Chem, Montreal, PQ H3A 2B4, Canada.  
McGill Univ, PAPRIQ Ctr Green Chem & Catalysis, Montreal, PQ H3A 2B4, Canada.

4 Citations: 80

**Title:** FUNCTIONAL PI-RELAYS AND THEIR APPLICATIONS

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1 - 20 (of 232)

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- Citations: 249

**Title:** SOLAR CELL EFFICIENCY TABLES (VERSION 41)

**Authors:** GREEN NA, EMERY K, HISHIKAMA Y, WARTA W, DUNLOP ED

**Source:** PROG PHOTOVOLTAICS 21 (1): 1-11 JAN 2013

**Addresses:** Univ New S Wales, Australian Ctr Adv Photovolta, Sydney, NSW 2052, Australia.  
Natl Renewable Energy Lab, Golden, CO 80401 USA.  
Natl Inst Adv Ind Sci & Technol, Res Ctr Photovolta RCPV, Tsukuba, Ibaraki 3058568, Japan.  
Fraunhofer Inst Solar Energy Syst, Dept Solar Cells Mat & Technol, D-79110 Freiburg, Germany.  
Commiss European Communities, Joint Res Ctr, Renewable Energy Unit, Inst Energy, IT-21027 Ispra, VA, Italy.

**Field:** ENGINEERING
- Citations: 198

**Title:** THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU2ZNSNS4 ABSORBER

**Authors:** SHIN B, GUNAWAN O, ZHU Y, BOJARCZUK NA, CHEY SJ, GOHA S

**Source:** PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** ENGINEERING
- Citations: 170

**Title:** SOLAR CELL EFFICIENCY TABLES (VERSION 42)

**Authors:** GREEN NA, EMERY K, HISHIKAMA Y, WARTA W, DUNLOP ED

**Source:** PROG PHOTOVOLTAICS 21 (5): 827-837 AUG 2013

**Addresses:** Univ New S Wales, Australian Ctr Adv Photovolta, Sydney, NSW 2052, Australia.  
Natl Renewable Energy Lab, Golden, CO 80401 USA.  
Natl Inst Adv Ind Sci & Technol, Res Ctr Photovolta RCPV, Tsukuba, Ibaraki 3058568, Japan.  
Fraunhofer Inst Solar Energy Syst, Solar Cells Mat & Technol Dept, D-79110 Freiburg, Germany.  
European Commiss Joint Res Ctr, Renewable Energy Unit, Inst Energy, IT-21027 Ispra, Italy.

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### HOT PAPERS IN MATERIALS SCIENCE

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1 Citations: 666

**Title:** A POLYMER TANDEM SOLAR CELL WITH 10.6% POWER CONVERSION EFFICIENCY  
**Authors:** [YOU JB](#), [DOU LT](#), [YOSHIMURA K](#), [KATO T](#), [OHYA K](#), [MORIARTY T](#), [EMERY K](#), [CHEN CC](#), [GAO T](#), [LI G](#), [YANG Y](#)  
**Source:** [NAT COMMUN](#) 4: - FEB 2013  
**Addresses:** [Univ Calif Los Angeles](#), Dept Mat Sci & Engr, Los Angeles, CA 90095 USA.  
[Sunstone Chen Co Ltd](#), Tsukuba Mat Dev Lab, Tsukuba, Ibaraki 3003294, [Japan](#).  
[Natl Renewable Energy Lab](#), Golden, CO 80401 USA.  
[Univ Calif Los Angeles](#), Calif Nanosyst Inst, Los Angeles, CA 90095 USA.  
**Field:** [MATERIALS SCIENCE](#)

2 Citations: 269

**Title:** CARBON NANOTUBES: PRESENT AND FUTURE COMMERCIAL APPLICATIONS  
**Authors:** [DE VOLDER MPL](#), [TAMPICK SH](#), [BAUGHMAN DE](#), [BRET AJ](#)  
**Source:** [SCIENCE](#) 339 (6119): 535-539 FEB 1 2013  
**Addresses:** [IMEC](#), B-3001 Heverlee, [Belgium](#).  
[KULeuven](#), Dept [E](#), [Kapucijnenvoer 30](#), [Leuven](#), [Belgium](#).  
[Harvard Univ](#), [School of Engin & Appl Sci](#), Cambridge, MA 02138 USA.  
[Univ Michigan](#), Dept Mech Engr, Ann Arbor, MI 48109 USA.  
[MIT](#), Dept Mech Engr, Cambridge, MA 02139 USA.  
[Univ Texas Dallas](#), Alan G MacDiarmid NanoTech Inst, Richardson, TX 75083 USA.  
[Univ Texas Dallas](#), Dept Chem, Richardson, TX 75083 USA.

3 Citations: 267

**Title:** BEYOND 11% EFFICIENCY: CHARACTERISTICS OF STATE-OF-THE-ART CU2ZNSN(S,SE)(4) SOLAR CELLS  
**Authors:** [TODOROV TK](#), [TANG J](#), [BAG S](#), [GIDMANAN G](#), [GORMEN T](#), [ZHU Y](#), [NITZI DR](#)  
**Source:** [ADV ENERGY MATER](#) 3 (1): 34-38 JAN 2013  
**Addresses:** IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.

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## HOT PAPERS IN SOCIAL SCIENCES, GENERAL

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1 Citations: 161

Title: COHORT PROFILE: THE CHILDREN OF THE 90S-THE INDEX OFFSPRING OF THE AVON LONGITUDINAL STUDY OF PARENTS AND CHILDREN

Authors: ROYD A, GOLDING T, MACLEOD T, LAWLOR DA, FRASER A, HENDERSON T, MOLLOY L, NESS A, RING S, SMITH GD

Source: INT J EPIDEMIOL 42 (1): 111-127 FEB 2013

Addresses: Univ Bristol, Sch Social & Community Med, Bristol BS8 2BN, Avon, England.  
Univ Bristol, Sch Social & Community Med, Ctr Child & Adolescent Hlth, Bristol BS8 2BN, Avon, England.  
Univ Bristol, Sch Social & Community Med, MRC, Ctr Causal Anal Translat Epidemiol, Bristol BS8 2BN, Avon, England.  
Univ Bristol, Sch Oral & Dent Sci, Bristol BS8 2BN, Avon, England.

Field: SOCIAL SCIENCES, GENERAL

2 Citations: 116

Title: ANTIMICROBIAL-RESISTANT PATHOGENS ASSOCIATED WITH HEALTHCARE-ASSOCIATED INFECTIONS: SUMMARY OF DATA REPORTED TO THE NATIONAL HEALTHCARE SAFETY NETWORK AT THE CENTERS FOR DISEASE CONTROL AND PREVENTION, 2009-2010

Authors: SIEVERT DM, RICES P, EDWARDS JR, SCHNEIDER A, PATEL T, SRINIVASAN A, KALLEN A, LIMBAGO B, FRIDKIN S

Source: INFECT CONTROL HOSP EPIDEMIOL 34 (1): 1-14 JAN 2013

Addresses: Ctr Dis Control & Prevent, Div Healthcare Qual Promot, Natl Ctr Emerging & Zoonot Infect Dis, Atlanta, GA USA.

Field: SOCIAL SCIENCES, GENERAL

3 Citations: 88

Title: INCREASING DROUGHT UNDER GLOBAL WARMING IN OBSERVATIONS AND MODELS

Authors: DAI AG

Source: NAT CLIM CHANGE 3 (1): 52-58 JAN 2013

Addresses: SUNY Albany, Dept Atmospher & Environm Sci, Albany, NY 12222 USA.  
Natl Ctr Atmospher Res, Boulder, CO 80507 USA.

Field: SOCIAL SCIENCES, GENERAL

4 Citations: 87

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## HOT PAPERS IN BIOLOGY & BIOCHEMISTRY

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1	Citations: 362 <a href="#">[a]</a>	<a href="#">HOT PAPER</a> <a href="#">[a]</a> <a href="#">WEB OF SCIENCE</a>
<b>Title:</b> THE PROTEOMICS IDENTIFICATIONS (PRIDE) DATABASE AND ASSOCIATED TOOLS: STATUS IN 2013		
<b>Authors:</b> <a href="#">VIZCAINO JA</a> , <a href="#">COTE RG</a> , <a href="#">CSORDAS A</a> , <a href="#">DIANES JA</a> , <a href="#">FABREGAT A</a> , <a href="#">FOSTER JM</a> , <a href="#">GRISS J</a> , <a href="#">ALPI E</a> , <a href="#">BIRIM M</a> , <a href="#">CONTELL J</a> , <a href="#">OKELLY G</a> , <a href="#">SCHOENBEGGER A</a> , <a href="#">OVELLEIRO D</a> , <a href="#">PEREZ-RIVEROL Y</a> , <a href="#">REISINGER F</a> , <a href="#">ELIOS D</a> , <a href="#">WANG R</a> , <a href="#">HERNIMAROB H</a>		
<b>Source:</b> <a href="#">NUCL ACID RES</a> 41 (D1): D1063-D1069 JAN 2013		
<b>Addresses:</b> European Bioinformat Inst, EMBL Outstn, Cambridge, <a href="#">England</a> . Ctr Genet Engn & Biotechnol, Dept Prote, Havana, <a href="#">Cuba</a> . <a href="#">Austrian Acad Sci</a> , CeMM Res Ctr Mol Med, A-1090 Vienna, <a href="#">Austria</a> .		
<b>Field:</b> <a href="#">BIOLOGY &amp; BIOCHEMISTRY</a>		
2	Citations: 337 <a href="#">[a]</a>	<a href="#">HOT PAPER</a> <a href="#">[a]</a> <a href="#">RESEARCH FRONT</a> <a href="#">[a]</a> <a href="#">WEB OF SCIENCE</a>
<b>Title:</b> EFFICIENT GENOME EDITING IN ZEBRAFISH USING A CRISPR-CAS SYSTEM		
<b>Authors:</b> <a href="#">HWANG WY</a> , <a href="#">FUI YF</a> , <a href="#">REYON D</a> , <a href="#">WAEDER ML</a> , <a href="#"> TSAI SQ</a> , <a href="#">SANDER ID</a> , <a href="#">PETERSON RT</a> , <a href="#">YEH JRJ</a> , <a href="#">JOUNG JK</a>		
<b>Source:</b> <a href="#">NAT BIOTECHNOL</a> 31 (3): 227-229 MAR 2013		
<b>Addresses:</b> Massachusetts Gen Hosp, Cardiovasc Res Ctr, Charlestown, MA USA. Massachusetts Gen Hosp, Mol Pathol Unit, Ctr Canc Res, Charlestown, MA 02129 USA. Massachusetts Gen Hosp, Ctr Computat & Integrat Biol, Charlestown, MA USA. <a href="#">Harvard Unliti</a> , Sch Med, Dept Pathol, Boston, MA 02115 USA. <a href="#">Harvard Univ</a> , Sch Med, Program Biol & Biomed Sci, Boston, MA USA. <a href="#">Harvard Univ</a> , Sch Med, Dept Med, Boston, MA USA. <a href="#">Broad Inst</a> , Cambridge, MA USA.		
<b>Field:</b> <a href="#">BIOLOGY &amp; BIOCHEMISTRY</a>		
3	Citations: 326 <a href="#">[a]</a>	<a href="#">HOT PAPER</a> <a href="#">[a]</a> <a href="#">WEB OF SCIENCE</a>
<b>Title:</b> STRING V9.1: PROTEIN-PROTEIN INTERACTION NETWORKS, WITH INCREASED COVERAGE AND INTEGRATION		
<b>Authors:</b> <a href="#">FRANCESCHINI A</a> , <a href="#">SZELARCZYK D</a> , <a href="#">FRANKILD S</a> , <a href="#">KINN R</a> , <a href="#">SIMONOVIC M</a> , <a href="#">ROTH A</a> , <a href="#">LIN TY</a> , <a href="#">MINGUEZ P</a> , <a href="#">DORK P</a> , <a href="#">VON MERING C</a> , <a href="#">TRNSEN LT</a>		
<b>Source:</b> <a href="#">NUCL ACID RES</a> 41 (D1): D808-D815 JAN 2013		

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1 Citations: 524 [Cite](#)

[HOT PAPER](#) [Cite](#) [WEB OF SCIENCE](#)

**Title:** MEGA6: MOLECULAR EVOLUTIONARY GENETICS ANALYSIS VERSION 6.0

**Authors:** TAMURA K., STECHER G., PETERSON D., FILIPSKI A., KUMAR S.

**Source:** [MOL. BIOL. EVOL.](#) 30 (12): 2725-2729 DEC 2013

**Addresses:** [Tokyo Metropolitan Univ.](#), Res Ctr Genom & Bioinformat, Hachioji, Tokyo, [Japan](#).  
[Tokyo Metropolitan Univ.](#), Dept Biol Sci, Hachioji, Tokyo, [Japan](#).  
[Arizona State Univ.](#), Biodesign Inst, Ctr Evolutionary Med & Informat, Tempe, AZ 85287 USA.  
[Arizona State Univ.](#), Sch Life Sci, Tempe, AZ 85287 USA.  
[King Abdulaziz Univ.](#), Ctr Excellence Genom Med Res, Jeddah 21413, [Saudi Arabia](#).

**Field:** [MOLECULAR BIOLOGY & GENETICS](#)

2 Citations: 423 [Cite](#)

[HOT PAPER](#) [Cite](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

**Title:** MAFFT MULTIPLE SEQUENCE ALIGNMENT SOFTWARE VERSION 7: IMPROVEMENTS IN PERFORMANCE AND USABILITY

**Authors:** KATO H., STANDLEY DM

**Source:** [MOL. BIOL. EVOL.](#) 30 (4): 772-780 APR 2013

**Addresses:** [Osaka Univ.](#), Immunol Frontier Res Ctr, Suita, Osaka, [Japan](#).  
Natl Inst Adv Ind Sci & Technol, Computat Biol Res Ctr, Tokyo, [Japan](#).

**Field:** [MOLECULAR BIOLOGY & GENETICS](#)

3 Citations: 329 [Cite](#)

[HOT PAPER](#) [Cite](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

**Title:** ONE-STEP GENERATION OF MICE CARRYING MUTATIONS IN MULTIPLE GENES BY CRISPR/CAS-MEDIATED GENOME ENGINEERING

**Authors:** WANG HY., YANG H., SHIVALILA CS, DAMLATY MN, CHENG AN, ZHANG P., JAENISCH R.

**Source:** [CELL](#) 153 (4): 910-918 MAY 9 2013

**Addresses:** Whitehead Inst Biomed Res, Cambridge, MA 02142 USA.  
[MIT](#), Dept Biol, Cambridge, MA 02139 USA.  
[MIT](#), Computat & Syst Biol Program, Cambridge, MA 02139 USA.  
[MIT](#), McGovern Inst Brain Res, Dept Brain & Cognit Sci, Dept Biol Engrg, Cambridge, MA 02139 USA.

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1 Citations: 122 [Cite](#)

HOT PAPER [Cite](#)

HWR OF SCIENCE

Title: THE GUT MICROBIOTA - MASTERS OF HOST DEVELOPMENT AND PHYSIOLOGY

Authors: SOMNER P; [BACKHED P](#)

Source: [NAT REV MICROBIOL](#) 11 (4): 227-238 APR 2013

Addresses: [Univ Gothenburg](#), Wallenberg Lab Cardiovasc & Metab Res, Sahlgrenska Univ Hosp, Dept Mol & Clin Med, SE-41345 Gothenburg, [Sweden](#).  
[Univ Gothenburg](#), Sahlgrenska Ctr Cardiovasc & Metab Res, Dept Mol & Clin Med, SE-41345 Gothenburg, [Sweden](#).  
[Univ Copenhagen](#), Novo Nordisk Fdn Ctr Basic Metab Res, Sect Metab Receptol & Enteroendocrinol, Fac Hlth Sci, DK-2200 Copenhagen, [Denmark](#).

Field: [MICROBIOLOGY](#)

2 Citations: 113 [Cite](#)

HOT PAPER [Cite](#)

RESEARCH FRONT

HWR OF SCIENCE

Title: INSIGHTS INTO THE PHYLOGENY AND CODING POTENTIAL OF MICROBIAL DARK MATTER

Authors: RINKO C; SCHWIENTEK P; SCZYRBA A; [IVANOVA NN](#); ANDERSON IJ; [CHENG JF](#); [DARLINO A](#); MALFATTI S; SWAN BK; GIES EA; DODSWORTH JA; HEDLIND BP; TSIAMIS G; STEVET SM; [LIU HT](#); [EISEN JA](#); [HALLAM SJ](#); [KYRPIDAKI NC](#); [STEPANAUSSKAS R](#); [RUBIN RN](#); [HUGHENHULTZ P](#); WOYKE T

Source: [NATURE](#) 499 (7459): 431-437 JUL 25 2013

Addresses: DOE Joint Genome Inst, Walnut Creek, CA 94598 USA.  
[Univ Bielefeld](#), Ctr Biotechnol, D-33602 Bielefeld, Germany.  
[Univ Calif Davis](#), Dept Evolut & Ecol, Davis, CA 95616 USA.  
[Univ Technol Sydney](#), Inst I3, Ultimo, NSW 2007, [Australia](#).  
Bigelow Lab Ocean Sci, East Boothbay, ME 04544 USA.  
[Univ British Columbia](#), Dept Microbiol & Immunol, Vancouver, BC V6T 1Z3, [Canada](#).  
[Univ British Columbia](#), Grad Program Bioinformat, Vancouver, BC V6T 1Z3, [Canada](#).  
Univ Nevada, Sch Life Sci, Las Vegas, NV 89154 USA.  
[Univ Patras](#), Dept Environm & Nat Resources Management, Agrinion 30100, [Greece](#).  
[Woods Hole Oceanogr Inst](#), Dept Biol, Woods Hole, MA 02543 USA.  
Univ Illinois, Dept Civil & Environm Engrg, Urbana, IL 61802 USA.  
[Univ Queensland](#), Sch Chem & Mol Biosci, Australian Ctr Ecogenom, St Lucia, Qld 4072, [Australia](#).  
[Univ Queensland](#), Inst Mol Biosci, St Lucia, Qld 4072, [Australia](#).

Field: [MICROBIOLOGY](#)

3 Citations: 109 [Cite](#)

HOT PAPER [Cite](#)

RESEARCH FRONT

HWR OF SCIENCE

Title: POST-TREATMENT HIV-1 CONTROLLERS WITH A LONG-TERM VIROLOGICAL REMISSION AFTER THE INTERRUPTION OF EARLY INITIATED ANTIRETROVIRAL THERAPY AND VISCONTI STUDY

# 追踪免疫学学科前沿——热点论文

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## HOT PAPERS IN IMMUNOLOGY

Sorted by: Citations SORT AGAIN

1 - 20 (of 47)



Page 1 of 3

1 Citations: 256 [Go](#)

[HOT PAPER](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

**Title:** INNATE LYMPHOID CELLS - A PROPOSAL FOR UNIFORM NOMENCLATURE

**Authors:** [SPITS H.](#), [ARTIS D.](#), [COLONNA M.](#), [DIEPENRACH A.](#), [DI SANTO JP.](#), [EBERL G.](#), [KOYASU S.](#), [LOCKSLEY RM.](#), [MCKENZIE ANI.](#), [MEDIUS RE.](#), [POMRIE F.](#), [VIVIER E.](#)

**Source:** [NAT REV IMMUNOL](#), 13 (2): 145-149 FEB 2013

**Addresses:** [Univ Amsterdam](#), Acad Med Ctr, Tytgat Inst Liver & Intestinal Res, NL-1105 BK Amsterdam, [Netherlands](#).  
[Univ Penna](#), Dept Microbiol, Perelman Sch Med, Philadelphia, PA 19104 USA.  
[Univ Penna](#), Inst Immunol, Perelman Sch Med, Philadelphia, PA 19104 USA.  
[Washington Univ](#), Sch Med, Dept Pathol & Immunol, St Louis, MO 63110 USA.  
[Univ Freiburg](#), Inst Med Microbiol & Hyg, D-79104 Freiburg, Germany.  
[Inst Pasteur](#), Innate Immun Unit, F-75724 Paris, [France](#).  
[Inst Pasteur](#), Dev Lymphoid Tissues Unit, F-75724 Paris, [France](#).  
[CREST](#), Dept Microbiol & Immunol, Chiyoda Ku, Tokyo 1020075, [Japan](#).  
[RIKEN](#), Res Ctr Allergy & Immunol, Lab Innate Cell Syst, Yokohama, Kanagawa 2300045, [Japan](#).  
[Univ Calif San Francisco](#), Howard Hughes Med Inst, San Francisco, CA 94143 USA.  
[MRC](#), Mol Biol Lab, Cambridge CB2 0QH, [England](#).  
[Vrije Univ Amsterdam](#), Med Ctr, Dept Mol Cell Biol & Immunol, NL-1007 MB Amsterdam, [Netherlands](#).  
[Univ Oxford](#), John Radcliffe Hosp, Nuffield Dept Clin Med, Translat Gastroenterol Unit, Oxford OX3 9DU, [England](#).  
[INSERM](#), U1104, Ctr Immunol Marseille Luminy, F-13009 Marseille, [France](#).  
[CNRS](#), UMR7280, F-13288 Marseille, [France](#).

**Field:** [IMMUNOLOGY](#)

2 Citations: 185 [Go](#)

[HOT PAPER](#) [WEB OF SCIENCE](#)

**Title:** MACROPHAGE BIOLOGY IN DEVELOPMENT, HOMEOSTASIS AND DISEASE

**Authors:** [WYNN TA.](#), [CHAWLA A.](#), [POLLARD TD.](#)

**Source:** [NATURE](#), 496 (7446): 445-455 APR 25 2013

**Addresses:** [NIAID](#), Immunopathogenesis Sect, Program Tissue Immun & Repair, NIH, Gaithersburg, MD 20877 USA.  
[NIAID](#), Parasit Dis Lab, NIH, Gaithersburg, MD 20877 USA.  
[Univ Calif San Francisco](#), Dept Physiol & Med, Cardiovasc Res Inst, San Francisco, CA 94158 USA.  
[Univ Edinburgh](#), Queens Med Res Inst, Med Res Council Ctr Reprod Hlth, Edinburgh EH16 4TJ, Midlothian, [Scotland](#).  
[Albert Einstein Coll Med](#), Dept Dev & Mol Biol, Ctr Study Reprod Biol & Womens Hlth, New York, NY 10461 USA.

**Field:** [IMMUNOLOGY](#)

# 基金案例：追踪社会科学学科前沿——热点论文

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Hot Papers

The screenshot displays a list of research entries from a database. Each entry includes a citation count, a 'HOT PAPER' label, and a 'Web of Science' link. The entries are as follows:

- Entry 4:** Citations: 60. Title: ANTIMICROBIAL-RESISTANT PATHOGENS ASSOCIATED WITH HEALTHCARE-ASSOCIATED INFECTIONS: SUMMARY OF DATA REPORTED TO THE NATIONAL HEALTHCARE SAFETY NETWORK AT THE CENTERS FOR DISEASE CONTROL AND PREVENTION, 2009-2010. Authors: SIEVERT DM, RICKS P, EDWARDS JR, SCHNEIDER A, PATEL J, SRINIVASAN A, KALLEN A, LIMBAGO B, FRIDKIN S. Source: [INFECT CONTROL HOSP EPIDEMIOL](#) 34 (1): 1-14 JAN 2013. Field: [SOCIAL SCIENCES, GENERAL](#).
- Entry 5:** Citations: 57. Title: IDENTIFYING INFLUENTIAL AND SUSCEPTIBLE MEMBERS OF SOCIAL NETWORKS. Authors: ARAL S, WALKER D. Source: [SCIENCE](#) 337 (6092): 337-341 JUL 20 2012. Field: [SOCIAL SCIENCES, GENERAL](#).
- Entry 6:** Citations: 53. Title: COHORT PROFILE: THE AVON LONGITUDINAL STUDY OF PARENTS AND CHILDREN: ALSPAC MOTHERS COHORT. Authors: FRASER A, MACDONALD-WALLIS C, TILLING K, BOYD A, GOLDING J, SMITH GD, HENDERSON J, MACLEOD J, MOLLOY L, NESS A, RING S, NELSON SM, LAWLOR DA. Source: [INT J EPIDEMIOL](#) 42 (1): 1-10 FEB 2013. Field: [SOCIAL SCIENCES, GENERAL](#).
- Entry 7:** Citations: 52. Title: INCREASING DROUGHT UNDER GLOBAL WARMING IN OBSERVATIONS AND MODELS. Author: DAI AG. Source: [NAT CLIM CHANGE](#) 3 (1): 52-58 JAN 2013. Field: [SOCIAL SCIENCES, GENERAL](#).

Arrows in the image point from the 'HOT PAPER' labels to the 'Web of Science' label, indicating the source of the data.

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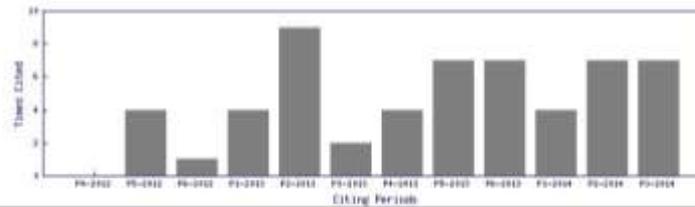


## HOT PAPERS

Title: IDENTIFYING INFLUENTIAL AND SUSCEPTIBLE MEMBERS OF SOCIAL NETWORKS

Source: SCIENCE 337 (6092): 337-341 JUL 20 2012

Number of Citations (by bi-monthly period):



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1 - 1 (of 1) [Navigation icons] Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	ONLINE SOCIAL NETWORK EXPERIMENT; OBSERVATIONAL SOCIAL NETWORK; CREATING SOCIAL CONTAGION; SOCIAL NETWORKS; HEALTH BEHAVIOR	5	360	72.00	2011.0

1 - 1 (of 1) [Navigation icons] Page 1 of 1

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CORE PAPERS IN ONLINE SOCIAL NETWORK EXPERIMENT; OBSERVATIONAL SOCIAL NETWORK; CREATING SOCIAL CONTAGION; SOCIAL NETWORKS; HEALTH BEHAVIOR

Sorted by: Citations [SORT AGAIN]

1 - 5 (of 5) [Navigation icons] Page 1 of 1

1	Citations: 372	THE SPREAD OF BEHAVIOR IN AN ONLINE SOCIAL NETWORK	EDWARDS
2	Citations: 172	DISSEMINATING INFORMATION AND DISCERNIBLE MEMBERS OF SOCIAL NETWORKS	WALSH J, WALSH J
3	Citations: 63	BEHAVIORAL AND CONTAGION ARE CONFOUNDING COMPONENTS IN OBSERVATIONAL SOCIAL NETWORK STUDIES	DALLITT CR, THOMAS AC
4	Citations: 59	SOCIAL NETWORKING	BY 107: 11-201 MAY 2011

SOCIAL SCIENCES, GENERAL ECONOMICS & BUSINESS

# 追踪社会科学学科前沿——热点论文

## Web of Science

The screenshot shows the Web of Science interface for the article "Identifying Influential and Susceptible Members of Social Networks" by Aral, S. and Walker, D. The article is published in SCIENCE, volume 337, issue 6092, pages 337-341, in July 2012. The abstract discusses a method for identifying influence and susceptibility in social networks using randomized experimentation on Facebook users. The interface includes navigation links, a citation network sidebar, and a full citation count section.

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### Identifying Influential and Susceptible Members of Social Networks

作者: Aral, S (Aral, Siman)<sup>[1]</sup>, Walker, D (Walker, Dylan)<sup>[1]</sup>

SCIENCE  
卷: 337 期: 6092 页: 337-341  
DOI: 10.1126/science.1215842  
出版年: JUL 20 2012  
[查看期刊信息](#)

#### 摘要

Identifying social influence in networks is critical to understanding how behaviors spread. We present a method that uses in vivo randomized experimentation to identify influence and susceptibility in networks while avoiding the biases inherent in traditional estimates of social contagion. Estimation in a representative sample of 1.3 million Facebook users showed that younger users are more susceptible to influence than older users, men are more influential than women, women influence men more than they influence other women, and married individuals are the least susceptible to influence in the decision to adopt the product offered. Analysis of influence and susceptibility together with network structure revealed that influential individuals are less susceptible to influence than noninfluential individuals and that they cluster in the network while susceptible individuals do not, which suggests that influential people with influential friends may be instrumental in the spread of this product in the network.

#### 引文网络

- 68 被引频次
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- 19 / BIOSIS Citation Index
- 6 / 中国科学引文数据库
- 9 / Data Citation Index

关键词: CONTAGION; IDE

#### 作者信息

通讯作者地址: Aral, S (通讯作者)  
+ NYU, Stem Sch Business, 550  
地址:  
+ [1] NYU, Stem Sch Business  
电子邮件地址: siman@stem.nyu.edu

#### 基金资助致谢

基金资助机构

#### 最近的引文

Long, Cheng. Viral marketing for dedicated customers. INFORMATION SYSTEMS, DEC 2014.  
[查看全文](#)

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# 追踪社会科学学科前沿——热点论文

The screenshot displays the Web of Science search results page for the query "Identifying Influential and Susceptible Members of Social Networks". The interface includes a navigation bar at the top with logos for Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, and EndNote. The main content area shows a list of search results, with the top two entries highlighted. A sidebar on the left provides navigation options such as "Web of Science 类别", "文献类型", "研究方向", "作者", "团体作者", and "编者". A detailed view of the first result is shown in an inset window, displaying the article title, author information, and a table of funding sources.

**Web of Science Search Results:**

- 施引文献: 66**  
(来自 Web of Science 核心合集)
- 对于: Identifying Influential and Susceptible Members of Social Networks ...  
更多内容
- 被引频次计算**  
72 所有数据库  
58 Web of Science 核心合集  
19 BIOSIS Citation Index  
8 中国科学引文数据库  
0 Data Citation Index 中的数据集  
0 Data Citation Index 中的出版物  
0 ScELO Citation Index  
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- 添加过滤器到过滤器...
- Web of Science 类别
- 文献类型
- 研究方向
- 作者
- 团体作者
- 编者

**排序方式:** 出版日期 (降序)

**选择页:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

**1. Viral marketing for dedicated customers**  
作者: Long, Cheng; Wong, Raymond Chi-Wing  
INFORMATION SYSTEMS 卷 46 页 1-23 出版年: DEC 2014  
出版商处的全文 查看摘要

**2. Listening In on Social Media: A Joint Model of Sentiment and Venue Format Choice**  
作者: Schwidel, David A.; Moz, Wendy W  
JOURNAL OF MARKETING RESEARCH 卷 51 期 4 页 387-402 出版年: AUG 2014  
查看摘要

**3. ERP 2.0, what for an?**  
作者: Grabot, Bernard; N  
COMPUTERS IN INDUS  
出版商处的全文

**4. A simple generative**  
作者: Gleeson, James P  
PROCEEDINGS OF THE  
册 29 页 10411-1041  
查看摘要

**5. Revisiting civic volu  
social media**  
作者: Kim, Yeojin; Khanj  
COMPUTERS IN HUMA  
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**6. Temporal scaling in**  
作者: Huang, Junming; L  
SCIENTIFIC REPORTS

**分析搜索结果**  
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**被引频次: 0**  
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**结果分析**  
44 期刊之一部

**期刊分析: Identifying Influential and Susceptible Members of Social Networks**

期刊名称	被引频次	占比 (%)	总页数
NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA	31	16.94%	600
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NATIONAL SCIENCE FOUNDATION	2	0.98%	8
NATIONAL HIGH TECH ED PROGRAM OF CHINA (J) PROGRAM	2	1.03%	4
APPLIED ARTS RESEARCH	2	1.03%	4
ARTS	2	1.03%	4

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# 追踪社会科学学科前沿——热点论文

The screenshot shows a Web of Science article page. The article title is "Temporal scaling in information propagation". The authors listed are Huang, JM (Huang, Junming), Li, C (Li, Chao), Wang, WQ (Wang, Wen-Qiang), Shen, HW (Shen, Hua-Wei), Li, GJ (Li, Guojie), and Cheng, XQ (Cheng, Xue-Qi). The article is from SCIENTIFIC REPORTS, volume 4, article number 5334, DOI: 10.1038/srep05334, published on September 18, 2014. The abstract discusses the study of information propagation dynamics and the discovery of a temporal scaling law. The keywords are SOCIAL NETWORKS, PROBABILITIES, DIFFUSION, ADOPTION. The author information section includes the author's name, address, and email. The funding information section includes a table of funding agencies and grant numbers.

**Temporal scaling in information propagation**

作者: Huang, JM (Huang, Junming)<sup>[1]</sup>; Li, C (Li, Chao)<sup>[1,2]</sup>; Wang, WQ (Wang, Wen-Qiang)<sup>[2]</sup>; Shen, HW (Shen, Hua-Wei)<sup>[1]</sup>; Li, GJ (Li, Guojie)<sup>[1]</sup>; Cheng, XQ (Cheng, Xue-Qi)<sup>[1]</sup>

SCIENTIFIC REPORTS  
卷: 4  
文献号: 5334  
DOI: 10.1038/srep05334  
出版年: 九月 18 2014  
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**摘要**  
For the study of information propagation, one fundamental problem is uncovering universal laws governing the dynamics of information propagation. This problem, from the microscopic perspective, is formulated as estimating the propagation probability that a piece of information propagates from one individual to another. Such a propagation probability generally depends on two major classes of factors: the intrinsic attractiveness of information and the interactions between individuals. Despite the fact that the temporal effect of attractiveness is widely studied, temporal laws underlying individual interactions remain unclear, causing inaccurate prediction of information propagation on evolving social networks. In this report, we empirically study the dynamics of information propagation, using the dataset from a population-scale social media website. We discover a temporal scaling in information propagation: the probability a message propagates between two individuals decays with the length of time latency since their latest interaction, obeying a power-law rule. Leveraging the scaling law, we further propose a temporal model to estimate future propagation probabilities between individuals, reducing the error rate of information propagation prediction from 6.7% to 2.6% and improving viral marketing with 9.7% incremental customers.

**关键词**  
KeyWords Plus: SOCIAL NETWORKS; PROBABILITIES; DIFFUSION; ADOPTION

**作者信息**  
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电子邮件地址: shenhuawei@ict.ac.cn  
+ 作者识别号:

**基金资助机构**

基金资助机构	资助号
National Basic Research Program of China (973 Program)	2014CB340603
National High-tech R&D Program of China (863 Program)	2014AA015103
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## 2013 32



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项目编号	申请代码	项目名称	项目负责人	依托单位	批准金额	项目起止年月
61375054	F030502	异构环境下基于社交网络的大规模本体学习模型研究	郑海清	清华大学	79	2014-01至2017-12
61370220	F020705	全媒体社交网络下的数字媒体内容安全与版权保护	张忠勇	河南科技大学	78	2014-01至2017-12
61303248	F020705	基于信任心的社交网络访问控制方法研究	张静君	中国科学院软件研究所	23	2014-01至2016-12
61300014	F020304	基于系统层次结构的大图并行处理框架研究	张群	北华邮电大学	25	2014-01至2016-12
61303163	F020512	海量时间的网络动态社交网络影响力最大化问题研究	董建	中国科学院软件研究所	22	2014-01至2016-12
61300103	F020506	位置感知任务任务的群智构建方法研究	孙志勇	福州大学	27	2014-01至2016-12
61374170	F030203	双层融合社交网络的相互作用和共演化机制: 基于时间序列和神经网络的方法	许小可	大连民族学院	78	2014-01至2017-12
71301088	G0112	双层融合在社交网络推荐: 演化与信息传播模型研究	薛长明	山东财经大学	19	2014-01至2016-12
61373021	H2606	初中生社交网络使用强度对其心理健康影响的队列研究	吴秀敏	香港中文大学深圳研究院	70	2014-01至2017-12
61302479	H2609	艾滋病毒阳性男男性接触人群心理健康及高危行为研究	匡吉刚	香港中文大学深圳研究院	23	2014-01至2016-12

(金额单位: 万元)

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1	71471157	G011201	社交学习网络环境下的创新能力理论与应用研究	赵建典	香港城市大学深圳研究院	62	2015-01至2018-12
2	11401602	A010201	社交网络组织结构与信息传播功能的群表示研究	张占利	中央财经大学	22	2015-01至2017-12
3	71402157	G021102	心理健康信息系统的分析、建模与设计	张清刚	香港城市大学深圳研究院	23	2015-01至2017-12
4	81402174	F020502	融合社交语义环境的网络图鲁棒关键技术研究	张静	华东理工大学	24	2015-01至2017-12
5	61472283	F020513	基于数字驱动的社群智能关键技术研究	张大焯	西安大学	85	2015-01至2018-12
6	61462079	F020304	社交网络环境下基于协同过滤的上下文感知推荐系统研究	于炯	新疆大学	47	2015-01至2018-12
7	61401015	F010201	社交网络用户行为分析及情感演化趋势预测方法研究	胡菲	北京交通大学	24	2015-01至2017-12
8	71401130	G011203	大规模动态社交网络社区检测算法研究	王琦	西安电子科技大学	22	2015-01至2017-12
9	61402383	F020204	大数据环境下面向社交网络的图匹配算法研究	王欣	西南交通大学	25	2015-01至2017-12
10	71471156	G011201	网络用户隐私担忧与主动性泄露隐私信息之悖论: 理论探索 and 基于社交网络的实证研究	王博康	香港城市大学深圳研究院	62	2015-01至2018-12

(金额单位: 万元)

共 4 页 / 32 条

# 国家社会科学基金社交网络课题

项目批准号	项目类别	学科分类	项目名称	立项时间	项目负责人	专业职务
14BSH082	一般项目	社会学	大学生社交网络的不当使用及其心理需要缺陷机制	2014-06-15	刘翔平	正高级
14CTQ031	青年项目	图书馆、情	移动社交网络对网络舆情的影响及治理研究	2014-06-15	丁菊玲	中级
14BXW043	一般项目	新闻学与传	基于社交网络的青年群体日常社会—文化实践研究	2014-06-15	朱丽丽	副高级
14BTQ033	一般项目	图书馆、情	在线社交网络中基于用户的知识组织模式研究	2014-06-15	章成志	副高级
14CTY003	青年项目	体育学	以移动社交网络为载体的体育传播创新研究	2014-06-15	刘翔	中级
13CXW034	青年项目	新闻学	基于移动社交网络的青年群体“微生活”消费模式	2013-06-10	于婷婷	中级
13CXW025	青年项目	新闻学	社交网络中传播主体行为的演变和规范研究	2013-06-10	张华	副高级
13CXW018	青年项目	新闻学	移动社交网络的自我呈现与人际传播研究	2013-06-10	黄佩	副高级
12BTQ054	一般项目	图书馆、情	科研社交网络用户信息交流机制研究	2012-05-14	张素芳	副高级
12BXW041	一般项目	新闻学与传	社交网络信息扩散机理与舆论引导机制研究	2012-05-14	廖玗	正高级
11BXW042	一般项目	新闻学与传	社交网络中的隐私侵权问题研究	2011-07-01	徐敬宏	副高级

# 基金案例：追踪工程学领域学科前沿——热点论文

2

185

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The screenshot displays a list of research papers with the following details:

- Item 3:** Title: SOLAR CELL EFFICIENCY TABLES (VERSION 40). Authors: GREEN MA; EMERY K; HISHIKAWA Y; WARTA W; DUNLOP ED. Source: PROG PHOTOVOLTAICS 20 (5): 606-614 SP. ISS. SI AUG 2012. Field: ENGINEERING. Citation count: 107.
- Item 4:** Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU2ZNSNS4 ABSORBER. Authors: SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S. Source: PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013. Field: ENGINEERING. Citation count: 102.
- Item 5:** Title: A NOVEL APPROACH TO FILTER DESIGN FOR T-S FUZZY DISCRETE-TIME SYSTEMS WITH TIME-VARYING DELAY. Authors: SU XJ; SHI P; WU LG; SONG YD. Source: IEEE TRANS FUZZY SYST 20 (6): 1114-1129 DEC 2012. Field: ENGINEERING. Citation count: 91.
- Item 6:** Title: OPPORTUNITIES AND CHALLENGES FOR A SUSTAINABLE ENERGY FUTURE. Authors: CHU S; MAJUMDAR A. Source: NATURE 488 (7411): 294-303 AUG 16 2012. Citation count: 84.

Annotations include arrows pointing from the 'HOT PAPER' button to the 'Web of Science' text and from the 'HOT PAPER' button to the 'ENGINEERING' field label. A large red box is present in the lower right area of the screenshot.

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# 基金案例：追踪工程学领域学科前沿——热点论文

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Field:	<a href="#">ENGINEERING</a>	<a href="#">HOT PAPER</a> <a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
2 Citations: 155 <a href="#">[i]</a>		
Title:	A COMPARISON STUDY OF BASIC DATA-DRIVEN FAULT DIAGNOSIS AND PROCESS MONITORING METHODS ON THE BENCHMARK TENNESSEE EASTMAN PROCESS	
Authors:	YIN S; DING SX; HAGHANI A; HAO HY; ZHANG P	
Source:	<a href="#">J PROCESS CONTROL</a> 22 (9): 1567-1581 OCT 2012	
Addresses:	Univ Duisburg Essen, Inst Automat Control & Complex Syst, D-47057 Duisburg, Germany. Harbin Inst Technol, Inst Intelligent Control & Syst, Harbin 150001, Peoples R China.	
Field:	<a href="#">ENGINEERING</a>	<a href="#">HOT PAPER</a> <a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
3 Citations: 148 <a href="#">[i]</a>		
Title:	THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU <sub>2</sub> ZNSNS <sub>4</sub> ABSORBER	
Authors:	SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S	
Source:	<a href="#">PROG PHOTOVOLTAICS</a> 21 (1): 72-76 JAN 2013	
Addresses:	IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.	
Field:	<a href="#">ENGINEERING</a>	<a href="#">HOT PAPER</a> <a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
4 Citations: 142 <a href="#">[i]</a>		
Title:	OPPORTUNITIES AND CHALLENGES FOR A SUSTAINABLE ENERGY FUTURE	
Authors:	CHU S; MAJUMDAR A	
Source:	<a href="#">NATURE</a> 488 (7411): 294-303 AUG 16 2012	
Addresses:	US DOE, Washington, DC 20585 USA.	
Field:	<a href="#">ENGINEERING</a>	<a href="#">HOT PAPER</a> <a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
5 Citations: 131 <a href="#">[i]</a>		
Title:	SOLAR CELL EFFICIENCY TABLES (VERSION 40)	
Authors:	GREEN MA; EMERY K; HISHIKAWA Y; WARTA W; DUNLOP ED	
Source:	<a href="#">PROG PHOTOVOLTAICS</a> 20 (5): 606-614 SP. ISS. SI AUG 2012	

# 基金案例：追踪工程学领域学科前沿——热点论文

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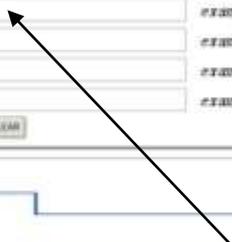
BY FIELD	Display papers from this field: (All Fields) [v] [GO]
OR	
BY NAME	Show alphabetic list of: Scientist [v] [GO]
OR	
BY SEARCHING	Enter terms or phrases separated by the operators AND or OR in one or more of the search fields below. Search fields are automatically combined using the AND operator.

Title word:	<input type="text" value="Film Solar Cell"/>	<i>example: climat* and chang*</i>
Scientist:	<input type="text"/>	<i>example: SMITH A*</i>
Institution:	<input type="text"/>	<i>example: CALIF INST*</i>
Country/Territory:	<input type="text"/>	<i>example: USA</i>
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# 基金案例：薄膜太阳能电池（Film Solar Cell）热点论文

2015 3 5

**HOT PAPERS FOR (FILM SOLAR CELL\*)**

Sorted by: Citations [v] SORT AGAIN

1 - 4 (of 4) Page 1 of 1

1 Citations: 198 [v] HOT PAPER [v] RESEARCH FRONT [v] WEB OF SCIENCE [v]

**Title:** THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CUZNSMS4 ABSORBER

**Authors:** SHIN B.; [GUNAMAN O.](#); [ZHU Y.](#); BOJARCZUK NA.; CHEY SJ.; [GUHA S.](#)

**Source:** [PROG PHOTOVOLTAICS](#) 21 (1): 72-76 JAN 2013

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [ENGINEERING](#)

2 Citations: 59 [v] HOT PAPER [v] WEB OF SCIENCE [v]

**Title:** DEVICE CHARACTERISTICS OF CZTSSe THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY

**Authors:** [WANG W.](#); WINKLER MT.; [GUNAMAN O.](#); GOREMEN T.; [TODOROV IK.](#); [ZHU Y.](#); [WITZEL DB.](#)

**Source:** [ADV ENERGY MATER](#) 4 (7): - MAY 2014

**Addresses:** IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [MATERIALS SCIENCE](#)

3 Citations: 52 [v] HOT PAPER [v] WEB OF SCIENCE [v]

**Title:** USING A TWO-STEP DEPOSITION TECHNIQUE TO PREPARE PEROVSKITE (CH3NH3PBI3) FOR THIN FILM SOLAR CELLS BASED ON ZRO2 AND TiO2 MESOSTRUCTURES

**Authors:** BI DQ.; [MOON ST.](#); HAGGMAN L.; [BOSCHLOO C.](#); [YANG L.](#); JOHANSSON EMJ.; [NAZEERUDDIN MK.](#); [GRATZEL M.](#); [HAGFELDT A.](#)

**Source:** [RSC ADV](#) 3 (41): 18762-18766 2013

**Addresses:** [Uppsala Univ, Dept Chem Angstrom, Uppsala, Sweden.](#)  
[Swiss Fed Inst Technol, Dept Chem & Chem Engn, Lab Photon & Interfaces, Stn 6, CH-1015 Lausanne, Switzerland.](#)

**Field:** [CHEMISTRY](#)

4 Citations: 28 [v] HOT PAPER [v] RESEARCH FRONT [v] WEB OF SCIENCE [v]

**Title:** HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS: HIGH EFFICIENCY AND JUNCTION PROPERTY

**Authors:** [SHI JJ.](#); [DONG J.](#); LV ST.; XU YZ.; ZHU LF.; XIAO JY.; [XU X.](#); [WU HL.](#); [LI DM.](#); [LIU YH.](#); [WANG GB.](#)

**Source:** [APPL PHYS LETT](#) 104 (6): - FEB 10 2014

**Addresses:** [Chinese Acad Sci, Key Lab Renewable Energy, Beijing Key Lab New Energy Mat & Devices, Inst Phys, Beijing 100190, Peoples R China.](#)

5 Citations: 21 [v] HOT PAPER [v] RESEARCH FRONT [v] WEB OF SCIENCE [v]

**Title:** HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS: HIGH EFFICIENCY AND JUNCTION PROPERTY

**Authors:** [SHI JJ.](#); [DONG J.](#); LV ST.; XU YZ.; ZHU LF.; XIAO JY.; [XU X.](#); [WU HL.](#); [LI DM.](#); [LIU YH.](#); [WANG GB.](#)

**Source:** [APPL PHYS LETT](#) 104 (6): - FEB 10 2014

**Addresses:** [Chinese Acad Sci, Key Lab Renewable Energy, Beijing Key Lab New Energy Mat & Devices, Inst Phys, Beijing 100190, Peoples R China.](#)

**Field:** [PHYSICS](#)

# 薄膜太阳能电池 (Film Solar Cell) 热点论文

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HOT PAPERS FOR (FILM SOLAR CELL\*)

Sorted by: Citations SORT AGAIN

1 - 3 (of 3) Page 1 of 1

1 Citations: 148

**Title:** THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT  $\text{Cu}_2\text{ZnSnS}_4$  ABSORBER

**Authors:** SHIN B; GUNAWAN O; ZHU Y; BOJARCZUK NA; CHEY SJ; GUHA S

**Source:** [PROG PHOTOVOLTAICS](#) 21 (1): 72-76 JAN 2013

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [ENGINEERING](#)

2 Citations: 50

**Title:** HIGH-EFFICIENCY SOLUTION-PROCESSED  $\text{Cu}_2\text{ZnSn}(\text{S},\text{SE})_4$  THIN-FILM SOLAR CELLS PREPARED FROM BINARY AND TERNARY NANOPARTICLES

**Authors:** CHAUDHURY KR; WU W

**Source:** [J AM CHEM SOC](#) 134 (38): 15644-15647 SEP 26 2012

**Addresses:** DuPont Co Inc, Cent Res & Dev, Exptl Stn, Wilmington, DE 19880 USA.

**Field:** [CHEMISTRY](#)

3 Citations: 12

**Title:** DEVICE CHARACTERISTICS OF CZTSSe THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY

**Authors:** WANG W; WINKLER MT; GUNAWAN O; GOKMEN T; TODOROV TK; ZHU Y; MITZI DB

**Source:** [ADV ENERGY MATER](#) 4 (7): - MAY 2014

**Addresses:** IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.

**Field:** [MATERIALS SCIENCE](#)



# 薄膜太阳能电池 (Film Solar Cell) 热点论文

## 2013-2014

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HOT PAPERS FOR (FILM SOLAR CELL\*)

Sorted by: Citations SORT AGAIN

1 - 3 (of 3) Page 1 of 1

1 Citations: 162  
Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU2ZNSNS4 ABSORBER  
Authors: SHIN B; GUNAWAN O; ZHU Y; DOJARCZUK NA; CHEY SJ; GUHA S  
Source: PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013  
Addresses: IBM Corp, Thomas J Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: ENGINEERING

2 Citations: 23  
Title: DEVICE CHARACTERISTICS OF CZTSSe THIN-FILM SOLAR CELLS WITH 12.6% EFFICIENCY  
Authors: WANG W; WINKLER MT; GUNAWAN O; GOKMEN Y; TOOROV TK; ZHU Y; MITZI DB  
Source: ADV ENERGY MATER 4 (7): - MAY 2014  
Addresses: IBM TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
Field: MATERIALS SCIENCE

3 Citations: 14  
Title: ELECTRODEPOSITED CU2ZNSNS4 THIN FILM SOLAR CELL WITH 7% POWER CONVERSION EFFICIENCY  
Authors: GUO L; ZHU Y; GUNAWAN O; GOKMEN Y; DELINE VR; AHMED S; ROMANKIW LT; DELIGIANNI H  
Source: PROG PHOTOVOLTAICS 22 (1): 58-68 JAN 2014  
Addresses: IBM Corp, TJ Watson Res Ctr, Yorktown Hts, NY 10598 USA.  
IBM Corp, Almaden Res Ctr, San Jose, CA 95120 USA.  
IBM Corp, Syst & Technol Grp, Microelect Div, Hopewell Jct, NY 12533 USA.  
Field: ENGINEERING

1 - 3 (of 3) Page 1 of 1

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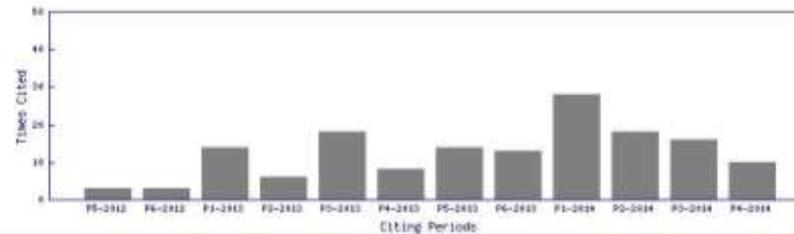
## HOT PAPERS

Title: THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY USING AN EARTH-ABUNDANT CU<sub>2</sub>ZNSNS<sub>4</sub> ABSORBER

Source: PROG PHOTOVOLTAICS 21 (1): 72-76 JAN 2013

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	LOW BAND GAP LIQUID-PROCESSED CZTSE SOLAR CELL; THIN FILM SOLAR CELL; EFFICIENT SOLAR CELLS; SE(X) SOLAR CELLS; 4% POWER CONVERSION EFFICIENCY	5	484	96.80	2012.2

1 - 1 (of 1) Page 1 of 1

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CORE PAPERS IN LOW BAND GAP LIQUID-PROCESSED CZTSE SOLAR CELL; THIN FILM SOLAR CELL; EFFICIENT SOLAR CELLS; SE(X) SOLAR CELLS; 4% POWER CONVERSION EFFICIENCY

Sorted by: Citations SORT AGAIN

1 - 3 (of 3) Page 1 of 3

1	Citations: 137	BEYOND 17% EFFICIENCY CHARACTERISTICS OF STATE-OF- THE-ART CUZSSNO <sub>0.85</sub> X SOLAR CELLS
Authors:	TODOROV TK, TANG J, BAG S, GUNAWAN O, GORKENT, ZHU Y, MITZ DE	
Source:	ADVANCED MATER 3 (1) 34-38 JAN 2011	
Address:	SEM CO-TRONICS CO, YONKONG RD, NY 10894 USA	
Field:	MATERIALS SCIENCE	
2	Citations: 102	THIN FILM SOLAR CELL WITH 8.4% POWER CONVERSION EFFICIENCY LISTO AN EARTH-ABUNDANT CUZSSNO <sub>0.4</sub> ABSORBER
Authors:	WEN B, GUNAWAN O, ZHU Y, BOJARCIK SA, CHEN W, GUHA S	
Source:	PROG PHOTOVOLTAIC 21 (1) 72-76 JAN 2011	
Address:	SEM CORP THOMAS J WATSON RES CTR YORKTOWN HIL, Y 10994	
Field:	PHYSICS	
3	Citations: 93	CO-EVAPORATED CUZSSNO <sub>0.4</sub> FILMS AND DEVICES
Authors:	REPOS I, BEALL C, VORA N, DEHART C, KUCRUSKAS D, DEPO J, TO B, MANN J, HSU WC, GOODRICH A, SOLEYR	
Source:	SOLAR ENERGY MATER SOLAR CELLS 110: 154-159 JUN 2012	

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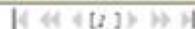


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RESEARCH FRONT

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1 - 1 (of 1)



Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	 CU2ZNSNS4 THIN FILM SOLAR CELLS: HIGH EFFICIENCY ELECTRODEPOSITED CU2ZNSNS4 SOLAR CELL; THERMALLY EVAPORATED CU2ZNSNS4 SOLAR CELLS; CU2ZNSNS4-BASED THIN FILM SOLAR CELLS; CZTS-BASED THIN FILM SOLAR CELLS	23	3754	163.22	2010.8

1 - 1 (of 1)



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CORE PAPERS IN CU2ZNSNS4 THIN FILM SOLAR CELLS; HIGH EFFICIENCY ELECTRODEPOSITED CU2ZNSNS4 SOLAR CELL; THERMALLY EVAPORATED CU2ZNSNS4 SOLAR CELLS; CU2ZNSNS4-BASED THIN FILM SOLAR CELLS; CZTS-BASED THIN FILM SOLAR CELLS



# Web of Science

The screenshot displays the Web of Science interface for a specific article. The article title is "Thin film solar cell with 8.4% power conversion efficiency using an earth-abundant Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber". The authors listed are Shin, B.; Gunawan, O.; Zhu, Y.; Bojarczuk, N.A.; Chey, S.J.; and Guha, S. The article is published in "PROGRESS IN PHOTOVOLTAICS", Volume 21, Issue 1, pages 72-76, in January 2013.

The right-hand sidebar provides citation metrics:
 

- 引文网络 (Citation Network):** 187 被引频次 (187 Citations), 19 引用的参考文献 (19 Cited References), 查看 Related Records (View Related Records), 查看引证关系图 (View Citation Graph), 创建引文网络 (Create Citation Network).
- 全球被引频次计数 (Global Citation Counts):** 192 / 所有数据库 (192 / All Databases), 187 / Web of Science 核心合集 (187 / Web of Science Core Collection), 3 / BIOSIS Citation Index (3 / BIOSIS Citation Index), 6 / 中国科学引文数据库 (6 / China Science Citation Database), 0 / Data Citation Index (0 / Data Citation Index), 0 / ScELO Citation Index (0 / ScELO Citation Index).
- 最近的引文 (Recent Citations):** Oh, Mool. Sn compensation via SnSex binary vapor supply during Cu<sub>2</sub>ZnSnS<sub>4</sub> formation. JOURNAL OF ALLOYS AND COMPOUNDS, DEC 15 2014.

An arrow points from the "187 被引频次" metric to the "IBM" logo, which is overlaid on the page.

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**Web of Science 类别** | **文献类型** | **研究方向** | **作者** | **团体作者** | **编者**

1. **Sn compensation via SnSex binary vapor supply during  $Cu_2ZnSnSe_4$  formation**  
作者: Oh, Misul, Kim, Woo Kyoung  
JOURNAL OF ALLOYS AND COMPOUNDS 卷: 616 页: 436-441 出版年: DEC 15 2014  
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2. **Secondary crystalline phases identification in  $CuZnSnSe$  thin films: contributions from Raman scattering analysis**  
作者: Salome, I  
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3. **Band-gap engineering and sulfurization of  $Cu_2ZnSnS_4$  thin films**  
作者: Caballero, I  
ACTA MATERIA...

4. **Growth and sulfurization of  $Cu_2ZnSnS_4$  thin films**  
作者: Li, Yi, Yu  
JOURNAL OF...

5. **Kesterite  $Cu_2ZnSnS_4$  thin films**  
作者: Yan, Cha  
JOURNAL OF...

6. **Sputtered  $Cu_2ZnSnS_4$  thin films**  
作者: Hromas, I  
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# 基金案例：追踪工程学领域学科前沿——热点论文

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## Low cost preparation of Cu<sub>2</sub>ZnSnS<sub>4</sub> and Cu<sub>2</sub>ZnSn(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> from binary sulfide nanoparticles for solar cell application

作者: Chen, GL (Chen, Guile)<sup>[1]</sup>; Yuan, CC (Yuan, Chenchen)<sup>[1]</sup>; Liu, JW (Liu, Jiewan)<sup>[1]</sup>; Deng, YT (Deng, Yitao)<sup>[1]</sup>; Jiang, GS (Jiang, Guoshun)<sup>[1]</sup>; Liu, WF (Liu, Wafeng)<sup>[1]</sup>; Zhu, CP (Zhu, Changfu)<sup>[1]</sup>

JOURNAL OF POWER SOURCES  
卷: 262 页: 201-206  
DOI: 10.1016/j.jpowsour.2014.03.075  
出版年: SEP 15 2014  
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### 摘要

A low-cost non-vacuum process for fabrication of Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) and Cu<sub>2</sub>ZnSn(S<sub>x</sub>Se<sub>1-x</sub>)<sub>4</sub> (CZTSSe) films by solvent-free mechanochemical method and doctor blade process is described. First, CuS, ZnS and SnS nanoparticles are synthesized via a facile, solvent-free route, which is low cost and easy to scale-up. Second, the sulfides nanoparticles precursors are deposited in a thin layer by doctor blade technique. Finally, the dry layers are sintered into CZTS/CZTSSe thin films. Different annealing processes are used, and the influences of incorporation of sulfur/selenium on the CZTS/CZTSSe films have been investigated. These structure, morphology and optical properties of CZTS/CZTSSe films are suitable for thin film solar cell fabrication. (C) 2014 Elsevier B.V. All rights reserved.

### 关键词

作者关键词: CZTS; CZTSSe thin films; Solvent-free synthesis; Annealing  
KeyWords Plus: THIN-FILMS; LAYER; NANOCRYSTALS; ROUTE; SIZE

### 作者信息

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电子邮件地址: liuw@ustc.edu.cn; czhu@ustc.edu.cn

### 基金资助致谢

基金资助机构	授权号
National Basic Research Program of China (973 Program)	2012CB922001
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# 基金案例：追踪工程学领域学科前沿——热点论文

## One-Pot Synthesis of Self-Stabilized Aqueous Nanoinks for Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> Solar Cells

作者: Zhong, J (Zhong, Jie)<sup>[1]</sup>; Xia, Z (Xia, Zhe)<sup>[1]</sup>; Zhang, C (Zhang, Cheng)<sup>[1]</sup>; Li, B (Li, Bing)<sup>[1]</sup>; Liu, XS (Liu, Xingsheng)<sup>[1]</sup>; Cheng, YB (Cheng, Yi-Bing)<sup>[1,2]</sup>; Tang, J (Tang, Jiang)<sup>[1]</sup>

CHEMISTRY OF MATERIALS

卷: 26 期: 11 页: 3573-3578

DOI: 10.1021/cm501270j

出版年: JUN 10 2014

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### 摘要

Copper zinc tin sulfide/selenide (CZTS/Se) is very promising for photovoltaic application because of their nontoxic, earth-abundant components and excellent optoelectronic properties. Herein, a novel in situ self-stabilization process using water as the only solvent is reported to produce CZTS nanoink. Aqueous processed metal chalcogenide complexes Sn<sub>2</sub>S<sub>6</sub>4- and Sn<sub>2</sub>S<sub>7</sub>6- were employed as the self-component ligands to in-situ cap the Cu/Zn sulfide nanoparticles, resulting in homogeneous and stable nanoinks. Through rational materials choice and annealing design, carbon, oxygen, and nitrogen contaminations were minimized in the final film. Finally, high quality CZTS/Se film was integrated into a photovoltaic device achieving a preliminary solar conversion efficiency of 5.14%. The innovation of green, stable, scalable, and reliable quality aqueous CZTS nanoinks will further benefit the advancement of high-efficiency, low-cost CZTS solar cells.

### 关键词

KeyWords Plus: CU<sub>2</sub>ZNSNS<sub>4</sub> THIN FILMS; CHALCOGENIDE SURFACE LIGANDS; 5.1-PERCENT EFFICIENCY; COLLOIDAL NANOCRYSTALS; PRECURSORS; FABRICATION; DEVICE; PHOTOVOLTAICS; ABSORBERS; INK

### 作者信息

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作者识别号:

### 基金资助致谢

基金资助机构	授权号
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China Postdoctoral Science Foundation	2013M542015
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Zhong, Jie. Sulfurization induced surface constitution and its correlation to the performance of solution-processed Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> solar cells. SCIENTIFIC REPORTS, SEP 5 2014.

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作者: Caballero, R.; Victorov, I. S.  
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作者: Li, Yi; Yuan, Tongfei; Jiang,  
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1	11374168	A040102	染料敏化太阳能电池低聚合物准固态电解质研究	诸跃进	宁波大学	90	2014-01至2017-12
2	91333113	B021101	梯形窄带隙稠环共轭分子的设计、合成、性质及其光伏性能研究	朱晓张	中国科学院化学研究所	91	2014-01至2016-12
3	61377025	F050204	顶部光入射型高效有机光伏器件的基础研究	朱瑞	北京大学	82	2014-01至2017-12
4	61307042	F050204	基于金属纳米网透明电极的表面等离子体共振增强光吸收研究	朱锦锋	厦门大学	28	2014-01至2016-12
5	61306016	F040104	基于一维有序TiO <sub>2</sub> 纳米阵列的全无机耗尽体相异质结量子点太阳能电池的结构构筑和性能研究	周正基	河南大学	25	2014-01至2016-12
6	51303118	E0309	聚合物太阳能电池中电子给受体界面电荷转移态的研究	周祎	苏州大学	25	2014-01至2016-12
7	51303077	E030901	外场诱导液晶小分子取向调控P3HT/PCBM异质结体系的结晶与相分离及其光伏性能	周巍华	南昌大学	25	2014-01至2016-12
8	61325026	F0509	有机光电子功能材料与器件	郑庆东	中国科学院福建物质结构研究所	200	2014-01至2017-12
9	21371092	B010303	染料敏化太阳能电池中卟啉染料的设计与分子工程	郑和根	南京大学	80	2014-01至2017-12
10	51302164	E0207	低串联电阻p-型染料敏化太阳能电池结构设计及载流子传输机制	赵尹	上海大学	25	2014-01至2016-12

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2	61376011	F040103	金属诱导垂直生长低温Poly-Si <sub>1-x</sub> Ge <sub>x</sub> (0≤x≤0.2)薄膜及其作为太阳能电池材料特性研究	彭尚龙	兰州大学	80	2014-01至2017-12
3	61306081	F040306	氧化物包覆银三角纳米粒子的表面等离子体共振效应在薄膜太阳能电池器件中的应用	李迪	中国科学院长春光学精密机械与物理研究所	27	2014-01至2016-12
4	51302303	E020701	基于CuSe的快速热处理硒化工艺研究	李朝晖	中国科学院深圳先进技术研究院	25	2014-01至2016-12

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2 61404154	F040306	高效铜铟镓硒薄膜太阳能电池吸收层的低温生长研究	张耀秋	中国科学院深圳先进技术研究院	26	2015-01至2017-12
3 61404109	F040306	一步溅射法制备的铜锌锡硒薄膜成相机理研究及其电池异质结探索	余洲	西南交通大学	26	2015-01至2017-12
4 61474103	F040306	纳米等离激元与太阳能电池中的非平衡物理过程耦合研究	王德亮	中国科学技术大学	79	2015-01至2018-12
5 21473147	B0306	研究多层薄膜光电转换体系的AFM新方法	毛秉伟	厦门大学	95	2015-01至2018-12
6 11404191	A040106	薄膜钙钛矿太阳能电池中电子传输层与活性层动力学标度行为研究	刘云燕	山东理工大学	30	2015-01至2017-12
7 61404086	F040306	铜锌锡硫硒薄膜的离子束溅射制备及太阳能电池关键科学问题研究	梁广兴	深圳大学	26	2015-01至2017-12
8 61474132	F040102	铜锌锡硫在晶界面的能带结构研究	李文杰	中国科学院深圳先进技术研究院	84	2015-01至2018-12
9 61404074	F040306	表面等离激元增强型纳米微腔结构的薄膜太阳能电池研究	黄茜	南开大学	31	2015-01至2017-12
10 61464005	F040103	ZnO:X透明导电膜的调制掺杂生长与氢化处理的研究	胡跃辉	景德镇陶瓷学院	46	2015-01至2018-12

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11 51472110	E0209	具有能隙梯度的全无机甲胺铅碘薄膜太阳能电池的能带设计、构筑与性能研究	曹丙强	济南大学	83	2015-01至2018-12

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2014

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01-SEP-2014 Open preview	EAGER: Unified Photon and Electron Harvesting Method for High Efficiency Thin-film Silicon Solar Cells	Chanda, Debashis	University of Central Florida	National Science Foundation	199,942	USD
01-AUG-2014 Open preview	Enhanced Photon-Electron Conversion in Thin Film Solar Cells by Propagating Surface Plasmons	Lee, Jung-kun	University of Pittsburgh	National Science Foundation	325,235	USD

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Sponsor Deutsche Forschungsgemeinschaft (DFG) / German Research Foundation  
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Amount The amount is unspecified. The programme will not cover upgrades in standard instrumentation or investments in large scale facilities. The envisaged start of funding is May 2015.

Requirements New Faculty/New Investigator  
Ph.D./M.D./Other Professional

Pivot Funding

Activity location Unspecified

**Abstract** Electron paramagnetic resonance (EPR) is a spectroscopic technique that allows detection of paramagnetic centres and magnetic nuclei coupled to them on a time scale as short as nanoseconds and with spatial resolution from the atomic up to the nanometre scale. Recent progress in this technique has been mainly driven by specific needs in the research areas of biological and material sciences. The Priority Programme has been bringing these research areas together in a coordinated effort to increase the sensitivity of EPR as an essential spectroscopic technique for biology, chemistry, materials science and physics.

As a major goal, applications such as the investigation of regulation/molecular machines, in cell proteins/protein interactions or enzymatic mechanisms, catalytic processes on single-crystal surfaces or the light-induced degradation of the *titin* *zeta* tails are addressed by EPR. The intrinsic diversity of the studied systems implies that the envisaged sensitivity enhancement does not only rely on advances on the side of EPR hardware but involves alternative polarization and detection schemes and the adaptation of the method to "real world" samples.

The programme invites applications for collaborative projects that focus on two major research areas. The first two areas encompass methods to increase the sensitivity of EPR experiments: 1) methods for improved excitation and manipulation of electron spin magnetization and 2) methods for improved EPR detection. The third and fourth areas explore the applicability of these methods in fields of biological and material sciences, which are not amenable to EPR spectroscopy at the current state-of-the-art.

In the current first phase, the groups with focus on applications have adapted and expanded presently available methods for increased sensitivity (such as the use of micro-resonators, THz spectroscopy, electrical or optical excitation or detection) to their specific purposes. Groups with expertise in EPR methodologies have been developing new experiments. In the second phase of the programme the focus is on joining these two development threads. The outcomes from the methodical work in the first funding period will be transferred within the consortium and optimized in new specific applications.

### Funding Contact Person

Professor Dr. Marina Bennati,  
coordinator (Scientific questions  
about this Priority Programme)

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Biophysical Chemistry (Ka

Activity location Unspecified

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# 基金案例：追踪脑机融合研究前沿——高被引论文

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BY SEARCHING	Enter terms or phrases separated by the operators AND or OR in one or more of the search fields below. Search fields are automatically combined using the AND operator.  Title word: <input type="text" value="brain computer interface*"/> <i>example: allerg* and inflam*</i> Scientist: <input type="text" value="brain computer interface*"/> <i>example: WEINBERG R*</i> Institution: <input type="text"/> <i>example: SALK INST*</i> Country/Territory: <input type="text"/> <i>example: USA</i> Journal: <input type="text"/> <i>example: J Cell* (view full titles)</i> [SEARCH] [CLEAR]

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Sorted by: Citations SORTING

1 - 1 (of 1)

Navigation icons

Page 1 of 1

1 Citations: 7

RESEARCH FRONT WEB OF SCIENCE

**Title:** REAL-TIME FMRI BRAIN COMPUTER INTERFACES: SELF-REGULATION OF SINGLE BRAIN REGIONS TO NETWORKS

**Authors:** RUIZ S; BUYUKTURKOGLU K; RANA M; [SINBAUMER N](#); SITARAM R

**Source:** [NEOL PSYCHM](#), 95: 4-20 SP. ISS. SI JAN 2014

**Addresses:** Univ Tubingen, Inst Med Psychol & Behav Neurobiol, D-72076 Tubingen, Germany.  
Pontificia Univ Catolica Chile, Dept Psiquiatria, Escuela Med, Ctr Interdisciplinario Neurociencias, Santiago 32349, [Chile](#).  
Int Max Planck Res Sch, Grad Sch Neural & Behav Sci, D-72074 Tubingen, Germany.  
Osped San Camillo, IRCCS, I-30126 Venice, [Italy](#).  
[Univ Florida](#), Dept Biomed Engrn, Gainesville, FL 32611 USA.  
Sri Chitra Tirunal Inst Med Sci & Technol, Thiruvananthapuram 695011, Kerala, [India](#).

**Field:** [PSYCHIATRY/PSYCHOLOGY](#)

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# 追踪脑机融合跨学科前沿——基金论文

The screenshot shows the Web of Science search interface. At the top, there are navigation links for 'Web of Science TM', 'InCites TM', 'Journal Citation Reports®', 'Essential Science Indicators SM', and 'EndNote TM'. The main header features the 'WEB OF SCIENCE™' logo and the 'THOMSON REUTERS®' logo. Below the header, there are navigation tabs for '检索' (Search) and 'Web of Science™ 核心合集' (Core Collection). A search bar contains the query: "brain computer interface\*" or "brain machine interface\*" under the '主题' (Topic) field. Below the search bar, there is a filter for 'AND' and 'National Science Foundation or NSF' under the '基金资助机构' (Funding Agency) field. A blue '检索' (Search) button is located to the right of the search bar. Below the search bar, there are options to '添加另一字段' (Add another field) and '清除所有字段' (Clear all fields). On the right side of the search bar, there is a small text box that says '单击此处查看有关改善检索的建议。' (Click here to view suggestions for improving your search). Below the search bar, there are filters for '时间跨度' (Time Span) and '更多设置' (More Settings). The '时间跨度' filter is set to '所有年份' (All years) and '从 1985 至 2015'. The '更多设置' section includes checkboxes for 'Science Citation Index Expanded (SCI-EXPANDED) - 1990年至今', 'Social Sciences Citation Index (SSCI) - 2000年至今', 'Conference Proceedings Citation Index - Science (CPCI-S) - 2001年至今', and 'Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SH) - 2001年至今'. Below the '更多设置' section, there is a section for 'Web of Science 核心合集: 化学索引' (Web of Science Core Collection: Chemistry Index) with a checkbox for 'Index Chemicus (IC) - 1993年至今'. At the bottom, there is a section for '自动建议的出版物名称' (Automatically suggested publication titles) with a '打开' (Open) button.

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时间跨度

所有年份

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Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SH) - 2001年至今

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# 追踪脑机融合跨学科前沿——基金论文

The screenshot shows the Web of Science search results page. The search criteria are: "brain computer interface" or "brain machine interface", funded by the National Science Foundation of NSF. The results are sorted by publication date (descending) and show 195 results. The first six results are listed below:

Rank	Title	Author(s)	Journal	Year	Citations
1	A Bayesian Framework for Intent Detection and Stimulation Selection in SSVEP BCIs	Higgin, Matt; Akcakaya, Murat; Nezambar, Hooman; 等	IEEE SIGNAL PROCESSING LETTERS	JUN 2015	0
2	A 4.78 mm(2) Fully-Integrated Neuromodulation SoC Combining 64 Acquisition Channels With Digital Compression and Simultaneous Dual Stimulation	Biederman, William; Yaeger, Daniel J.; Narevsky, Nathan; 等	IEEE JOURNAL OF SOLID-STATE CIRCUITS	APR 2015	0
3	Complexity Optimization and High-Throughput Low-Latency Hardware Implementation of a Multi-Electrode Spike-sorting Algorithm	Dragas, Jelena; Jaeckel, David; Hierlemann, Andreas; 等	IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING	MAR 2015	0
4	Informative features of local field potential signals in primary visual cortex during natural image stimulation	Seyedhosseini, Mojtaba; Shushvuth, S.; Davis, Tyler; 等	JOURNAL OF NEUROPHYSIOLOGY	MAR 2015	0
5	Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo	Canales, Andres; Jia, Xiaoting; Froese, Ulrich P.; 等	NATURE BIOTECHNOLOGY	MAR 2015	1
6	Towards computational models of animal cognition, an introduction for computer scientists				0

Navigation and filtering options on the left include: Web of Science categories (Neurosciences, Engineering Biomedical, etc.), Document types (Article, Review), and Research directions. The top navigation bar includes links for Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, and EndNote. The Thomson Reuters logo is also present.

# 追踪脑机融合跨学科前沿——基金论文

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3 **Complexity Optimization and High-Throughput Low-Latency Hardware Implementation of a Multi-Electrode Spike-Sorting Algorithm**  
作者: Dragas, Jelena; Jaeckel, David; Hadschmann, Andreas; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 149-158  
出版年: MAR 2015  
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4 **Informative features of local field potential signals in primary visual cortex during natural image stimulation**  
作者: Seyedhosseini, Mojtaba; Shashruth, S.; Davis, Tyler; 等  
JOURNAL OF NEUROPHYSIOLOGY 卷: 113 期: 5 页: 1520-1532 出版年: MAR 1 2015  
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5 **Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo**  
作者: Canales, Andrea; Jia, Xiaoting; Friesep, Ulrich P.; 等  
NATURE BIOTECHNOLOGY 卷: 33 期: 3 页: 277+ 出版年: MAR 2015  
[查看摘要](#)

6 **Towards computational models of animal cognition, an introduction for computer scientists**  
作者: Ma, Zhenshan (Sam)  
COGNITIVE SYSTEMS RESEARCH 卷: 33 页: 42-69 出版年: MAR 2015  
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7 **Electrical impedance, electrochemistry, mechanical stiffness, and hardness tunability in glassy carbon/MEMs/mu ECoG electrodes**  
作者: Huh, Eun-ji; Kim, Min; Jang, Heung; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 159-167 2015  
[出版商处的全文](#) [查看摘要](#)

8 **Multi-motion robots control based on bioelectric signals from single channel dry electrode**  
作者: Chen, Yuhong; Wang, Yuhang; Liu, Yuhang; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 168-176 2015  
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9 **Comparison of spike sorting and thresholding of voltage waveforms for intracortical brain-machine interface performance**  
作者: Wang, Hui; Wang, Yuhang; Wang, Yuhang; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 177-185 2015  
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10 **Progress towards biocompatible intracortical microelectrodes for neural interfacing applications**  
作者: Kim, Heungsik; Kim, Heungsik; Kim, Heungsik; 等  
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING 卷: 23 期: 2 页: 186-194 2015  
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# 追踪脑机融合跨学科前沿——基金论文

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## Comparison of spike sorting and thresholding of voltage waveforms for intracortical brain-machine interface performance

作者: Christie, BP (Christie, Breanne P.)<sup>[1]</sup>; Tat, DM (Tat, Derek M.)<sup>[1]</sup>; Irwin, ZT (Irwin, Zachary T.)<sup>[1]</sup>; Gilja, V (Gilja, Vikash)<sup>[2,3,4]</sup>; Nuyujukian, P (Nuyujukian, Paul)<sup>[5,6]</sup>; Foster, JD (Foster, Justin D.)<sup>[7]</sup>; Ryu, SI (Ryu, Stephen I.)<sup>[7,8]</sup>; Shenoy, KV (Shenoy, Krishna V.)<sup>[5,7,9,10]</sup>; Thompson, DE (Thompson, David E.)<sup>[1,11]</sup>; Chestek, CA (Chestek, Cynthia A.)<sup>[1,12,13]</sup>

JOURNAL OF NEURAL ENGINEERING  
卷: 12 期: 1  
文章号: 016009  
DOI: 10.1088/1741-2560/12/1/016009  
出版年: FEB 2015  
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### 摘要

Objective: For intracortical brain-machine interfaces (BfMIs), action potential voltage neurons contain independent tuning information, this process could increase BMI sampling rates and is computationally expensive. To explicitly define the difference performance when using threshold-crossing events versus sorted action potential rhesus macaques implanted with Utah arrays. Data were recorded while the animal spike sorting, neural signals were sorted into individual units by using a mixture of For thresholding events, spikes that simply crossed a set threshold were retained direction and a linear regression to evaluate hand position. Main results: We found -3 and -4.5 x V-rms. Spike sorted data outperformed thresholded data for one animal sorted data was 86.5% and changed by 5% on average when data were threshold by 0.015 on average when thresholded. Significance: For prosthetics applications only a small amount of performance may be lost. The utilization of threshold-cross events are often still detectable once single neurons are no longer isolated.

### 关键词

作者关键词: spike sorting; threshold; brain-machine interface  
KeyWords Plus: LOCAL-FIELD POTENTIALS; MOTOR CORTEX; NEURAL PRO SIGNALS; MOVEMENT; COMPUTER; GRASP; REACH

### 作者信息

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关键词: spike sorting; threshold; brain-machine interface  
KeyWords Plus: LOCAL-FIELD POTENTIALS; MOTOR CORTEX; NEURAL PRO SIGNALS; MOVEMENT; COMPUTER; GRASP; REACH

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电子邮件地址: christie@umich.edu

### 基金资助项目

基金资助机构	基金号
National Science Foundation	
NSERC Fellowship	
Texas Instruments Stanford Graduate Fellowship	
Burnight-Wallace Fund Career Awards in the Biomedical Sciences	
Christopher Recan Foundation	
Stanford University Graduate Fellowship	
Stanford HH Medical Scientist Training Program grant	
Spice Fellowship	

# 追踪脑机融合跨学科前沿——基金论文

The image shows a screenshot of a Web of Science article page. The article title is "Brain-computer interface control along instructed paths". The authors listed are Sadtler, PT; Ryu, Si; Tyler-Kabara, EC; Yu, BM; and Babista, AP. The journal is "JOURNAL OF NEURAL ENGINEERING", volume 12, issue 1, published in February 2015. The article has 57 citations. A table of funders is visible, with a callout box highlighting the funding number "DGE-0549352" for the National Science Foundation (NSF). The callout box is a white rectangle with a black border and a black arrow pointing to the funding number in the table. The funding number is highlighted in yellow in the original image.

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### Brain-computer interface control along instructed paths

作者: Sadtler, PT (Sadtler, P. T. [1,2,3]; Ryu, Si (Ryu, S. I.) [4,5]; Tyler-Kabara, EC (Tyler-Kabara, E. C.) [1,6,7]; Yu, BM (Yu, B. M.) [2,8,9]; Babista, AP (Babista, A. P.) [1,2,3]

JOURNAL OF NEURAL ENGINEERING  
卷: 12 期: 1  
文献号: 016015  
DOI: 10.1088/1741-2560/12/1/016015  
出版年: FEB 2015  
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#### 摘要

Objective. Brain-computer interfaces (BCIs) are being developed to computer cursor or prosthetic limb. Here we introduce a novel BCI task, we can push the performance limits of BCI systems, we can increase the richness of the BCI movement repertoire. Approach. A visible path. The instructed path task provides a versatile framework traditional point-to-point tasks, the instructed path task allows more Main results. We demonstrate that monkeys are able to perform the performance under BCI control compares to native arm control, who and how the kinematic richness is enhanced in this task. Significant BCI systems and their clinical translation.

#### 关键词

作者关键词: brain-computer interface; neural decoding; motor cortex  
KeyWords Plus: MOTOR CORTICAL ACTIVITY; MACHINE INTERFACES; MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RHEUS-MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RHEUS-MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RHEUS-MONKEYS

#### 作者信息

通讯作者地址: Sadtler, PT (通讯作者)  
+ Univ Pittsburgh, Dept Biogen, Pittsburgh, PA 15260 USA  
地址:

#### 关键词

关键词  
作者关键词: brain-computer interface; neural decoding; motor cortex  
KeyWords Plus: MOTOR CORTICAL ACTIVITY; MACHINE INTERFACES; MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RHEUS-MONKEYS; NEURAL CONTROL; ARM MOVEMENTS; RHEUS-MONKEYS

#### 作者信息

通讯作者地址: Sadtler, PT (通讯作者)  
+ Univ Pittsburgh, Dept Biogen, Pittsburgh, PA 15260 USA  
地址:

#### 基金资助数据

基金资助机构	资助号
NSF-MCHD CARES	80145871600
Gray H Nathan Foundation	
NSF-NIDCD	801458001000
Dominique Williams Fund	
NSF	2002334
NSF Systems Neuroscience Institute	71246021600

基金资助机构名称  
出版商  
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类别 / 分类  
研究学科: Engineering, Neuroscience & Neurology  
Web of Science 类别: Engineering, Neurosciences

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- Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) - 2001年至今

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排序方式: 出版日期 (降序)

1. Brain-computer interface control along instructed paths  
作者: Binbin Ren, et al. | 2015 | 10.1016/j.neuroimage.2015.08.048

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索引频次: 0  
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The image shows a dark-themed interface, likely a presentation or document viewer. The content is mostly illegible due to low contrast and blurring. A red rectangular box highlights a specific area in the center of the slide, which appears to contain some text or a diagram, but the details are not discernible.

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### Neural constraints on learning

作者: Sadtler, PT (Sadtler, Patrick T. [1,2,3]), Quick, KM (Quick, Kristin M. [1,2,3]), Golub, MD (Golub, Matthew D. [2,4]), Chase, SM (Chase, Steven M. [2,5]), Ryu, SI (Ryu, Seunggi [1,6,7]), Tyler-Kabara, EC (Tyler-Kabara, Elizabeth C. [1,8,9]), Yu, BM (Yu, Byron M. [2,4,5]), Batista, AP (Batista, Aaron P. [1,2,3])

**NATURE**

卷: 512 期: 7515 页: 423-442  
DOI: 10.1038/nature13665  
出版年: AUG 28 2014  
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#### 摘要

Learning, whether motor, sensory or cognitive, requires networks of neurons & others(1,2), we asked if some neural activity patterns are easier to generate if patterns that a subset of its neurons is capable of exhibiting, and if so, what computer interface learning paradigm in which Rhesus macaques (Macaca m primary motor cortex. Using the brain-computer interface paradigm, we could each session, we observed the characteristic activity patterns of the recorded high-dimensional space (termed the neural space), wherein each dimension c comprise a low-dimensional subspace (termed the intrinsic manifold) within it by the underlying neural circuitry. Here we show that the animals could readi within the intrinsic manifold. However, animals were less able to learn to profi manifold. These results suggest that the existing structure of a network can s generate neural activity patterns that are not consistent with the existing nets that we are more readily able to learn new skills when they are related to the

#### 关键词

KeyWords Plus: BRAIN-COMPUTER-INTERFACE; MOTOR; ADAPTATION; PATTERNS; TASKS

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通讯作者地址: Yu, BM (通讯作者)

#### 关键词

Keywords Plus: BRAIN-COMPUTER-INTERFACE; MOTOR; ADAPTATION; PATTERNS; TASKS

#### 作者信息

通讯作者地址: Yu, BM (通讯作者)

#### 参考文献

1 | Univ Pittsburgh, Dept Biodyn, Pittsburgh, PA 15261 USA  
2 | Univ Pittsburgh, Dept Neurosci, Pittsburgh, PA 15261 USA  
3 | Univ Pittsburgh, Dept Neurosci, Pittsburgh, PA 15261 USA  
4 | George Mason Univ, Dept Elect & Comp Engrg, Pittsburgh, PA 15213 USA  
5 | George Mason Univ, Dept Biomed Engrg, Pittsburgh, PA 15213 USA  
6 | Stanford Univ, Dept Elect Engrg, Stanford, CA 94305 USA  
7 | Palo Alto Med Ctr, Dept Neurosci, Palo Alto, CA 94304 USA  
8 | Univ Pittsburgh, Dept Phys Med & Rehab, Pittsburgh, PA 15261 USA  
9 | Univ Pittsburgh, Dept Neural Eng, Pittsburgh, PA 15261 USA

电子期刊地址: [bm.yu@duke.edu](mailto:bm.yu@duke.edu); [apb1@duke.edu](mailto:apb1@duke.edu)

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National Science Foundation  
DGE-0549352

# 追踪跨学科前沿——研究前沿

- **Research Fronts**  
Thomson Reuters

# 追踪学科前沿——研究前沿

研究前沿是指当前比较活跃的专业研究领域。首先，通过确定过去五年里发表的高被引论文(按照发表年份，被引次数在其领域位于前 1% 的论文)来确定研究前沿。然后收集引用这些高被引论文的论文并对被引论文进行共引分析。共引分析是一个反复过程。当两篇论文被频繁共引时，则有可能开始形成一个相关研究聚类，这就是一个研究前沿。一些研究前沿是仅围绕两篇或多篇论文建立起来的，而另一些研究前沿由于频繁共引则可能拥有多达50篇相关共引论文，这就是研究前沿内的核心论文。最后，研究前沿是由许多核心论文和将核心论文联系起来的更多施引论文组成的<sup>[2]</sup>。

研究前沿不是由信息分析师选择或定义的，它们是由研究人员自身通过其论文的参考文献确立的。因此，研究前沿反映了众多专家基于全面信息的判断。随着研究的进展，研究前沿的规模及内容总在不断变化。随着汤森路透每次更新数据，都有一些研究前沿消失而另一些研究前沿出现。这些研究前沿因此代表了全球研究界关于科学的结构在当前判断。

# 如何追踪跨学科前沿——研究前沿

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Essential Science Indicators has been updated as of March 5, 2015 to cover a 11-year plus 0-month period, January 1, 2004-December 31, 2014.

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Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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## Research Fronts

# 追踪跨学科学科前沿——研究前沿

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## RESEARCH FRONTS MENU

<b>BY FIELD:</b>	Select a topic from this field:	MULTIDISCIPLINARY	GO
<b>OR</b>		(All Fields) AGRICULTURAL SCIENCES BIOLOGY & BIOCHEMISTRY CHEMISTRY CLINICAL MEDICINE COMPUTER SCIENCE ECONOMICS & BUSINESS ENGINEERING ENVIRONMENT/ECOLOGY GEOSCIENCES IMMUNOLOGY MATERIALS SCIENCE MATHEMATICS MICROBIOLOGY MOLECULAR BIOLOGY & GENETICS MULTIDISCIPLINARY NEUROSCIENCE & BEHAVIOR PHARMACOLOGY & TOXICOLOGY PHYSICS PLANT & ANIMAL SCIENCE PSYCHIATRY/PSYCHOLOGY SOCIAL SCIENCES, GENERAL SPACE SCIENCE	
<b>BY NAME:</b>	Enter up to five terms or phrases Example: BREAST		OR to search.
<b>RESEARCH FRONTS EXAMPLES</b>			
Enter <b>CANCER</b> to search for citation data in the areas of PRO Enter <b>HEPATITIS*</b> to search for citation data in the areas of H Enter <b>HIV-1</b> to search for citation data in the areas of HIV-1 A Enter <b>POLYMER*</b> to search for citation data in the areas of R			
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Mean Year离当前年份越近越能表明该主题处于当前学科热点或研究前沿。即就是前沿课题研究一起的时间点。

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## RESEARCH FRONTS RANKINGS IN MULTIDISCIPLINARY

Sorted by: Citations SORT AGAIN

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	PLURIPOTENT MOUSE STEM CELLS; PLURIPOTENT STEM CELLS FREE; PLURIPOTENT STEM CELLS; HUMAN IPS CELLS; HUMAN CELLS	21	12,104	576.38	2008.9
2	FEW-LAYER GRAPHENE FILMS; 30-INCH GRAPHENE FILMS; UNIFORM GRAPHENE FILMS; GRAPHENE FILMS; STRETCHABLE TRANSPARENT ELECTRODES	4	10,330	2582.50	2009.3
3	HUMAN A(2A) ADENOSINE RECEPTOR BOUND; AGONIST-BOUND HUMAN A(2A) ADENOSINE RECEPTOR; HUMAN M2 MUSCARINIC ACETYLCHOLINE RECEPTOR BOUND; AGONIST-BOUND ADENOSINE A(2A) RECEPTOR STRUCTURES; HUMAN HISTAMINE H-1 RECEPTOR COMPLEX	26	8,661	333.12	2010.7
4	VIVO DIRECT REPROGRAMMING; DIRECT REPROGRAMMING STRATEGY; DIRECT REPROGRAMMING; MOUSE FIBROBLASTS; HUMAN FIBROBLASTS	16	4,459	278.69	2011.1
5	KEPLER PLANET CANDIDATES; KEPLER LONG CADENCE DATA; KEPLER SHORT CADENCE DATA; KEPLERS CANDIDATE MULTIPLE TRANSITING PLANET SYSTEMS; KEPLER INPUT CATALOG	23	4,341	188.74	2011.0
6	HUMAN GUT MICROBIAL GENE CATALOGUE ESTABLISHED; GUT MICROBIAL ENTEROTYPES; HUMAN GUT MICROBIOME; SHAPING GUT MICROBIOTA; ENTEROTYPES	4	3,376	844.00	2010.5
7	ANATASE TiO2 SINGLE CRYSTALS; ANATASE TiO2 NANOSHEETS; VISIBLE LIGHT RESPONSIVE NITROGEN DOPED ANATASE TiO2 SHEETS; ANATASE TiO2(2) SINGLE CRYSTALS; ANATASE TiO2 NANOCRYSTALS	8	3,226	403.25	2008.9
8	BIOFUELS INDIRECT LAND USE CHANGE; GREENHOUSE GAS EMISSIONS; GLOBAL LAND USE; GREENHOUSE GASES; LAND CLEARING	4	2,586	646.50	2009.0
9	ACCURATE WHOLE HUMAN GENOME SEQUENCING; DIPLOID GENOME SEQUENCE; COMPLETE GENOME; MASSIVELY PARALLEL DNA SEQUENCING; ASIAN INDIVIDUAL	3	2,455	818.33	2008.0
10	MODEL GRASS BRACHYPODIUM DISTACHYON; SORGHUM BICOLOR GENOME; B73 MAIZE GENOME; GENOME SEQUENCING; BRACHYPODIUM TOOL BOX	4	2,277	569.25	2009.8
11	HEPATITIS C VIRUS RNA GENOME; HEPATITIS C VIRUS GENOME; CHRONIC HEPATITIS C VIRUS INFECTION; HEPATITIS C VIRUS REPLICATION; HEPATITIS C VIRUS TRANSLATION	7	2,078	296.86	2009.7
12	TWO PLASMONIC NANOPARTICLES; QUANTUM PLASMON RESONANCES; NONLOCAL OPTICAL RESPONSE; PLASMONIC NANOPARTICLE DIMER; PLASMONIC NANOSTRUCTURES	18	2,070	115.00	2011.3
13	SWINE-ORIGIN 2009 A(H1N1) INFLUENZA VIRUSES CIRCULATING; 2009 SWINE-ORIGIN H1N1 INFLUENZA; EVOLUTIONARY GENOMICS; GENETIC CHARACTERISTICS; ANTIGENIC	2	1,915	957.50	2009.0
14	PRIMARY HUMAN PROSTATE CANCER; HUMAN PROSTATE CANCER; LETHAL CASTRATION-RESISTANT PROSTATE CANCER; PROSTATE CANCER GENOMES; PTEN-DEFICIENT PROSTATE CANCER	7	1,902	271.71	2011.7
15	PLURIPOTENT STEM CELLS; COPY NUMBER VARIATION; HUMAN ESCS; COPY NUMBER; HUMAN	5	1,876	375.20	2010.8
16	CURRENT MOLECULAR DYNAMICS FORCE FIELDS TOO HELICAL; OPTIMIZED MOLECULAR DYNAMICS FORCE FIELDS APPLIED; AMBER FF99SB PROTEIN FORCE FIELD; PROTEIN FOLDING SIMULATIONS; FORCE FIELD PARAMETERIZATION	8	1,840	230.00	2010.5

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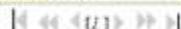


CORE PAPERS IN BIOFUELS INDIRECT LAND USE CHANGE; GREENHOUSE GAS EMISSIONS; GLOBAL LAND USE; GREENHOUSE GASES; LAND CLEARING IN MULTIDISCIPLINARY

Sorted by: Citations

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1 Citations: 1,297

RESEARCH FRONT WEB OF SCIENCE

**Title:** USE OF US CROPLANDS FOR BIOFUELS INCREASES GREENHOUSE GASES THROUGH EMISSIONS FROM LAND-USE CHANGE

**Authors:** [SEARCHINGER T.](#), [HEIMLICH R.](#), [HOUGHTON R.A.](#), [DONG F.X.](#), [ELOBEID A.](#), [FABIOSA J.](#), [TOKGOZ S.](#), [HAYES D.](#), [YU TH](#)

**Source:** [SCIENCE](#)  
319 (5867): 1238-1240 FEB 29 2008

**Addresses:** [Princeton Univ.](#), Woodrow Wilson Sch, Princeton, NJ 08544 USA.  
[German Marshall Fund US](#), Washington, DC 20009 USA.  
[Georgetown Environm Law & Policy Inst](#), Washington, DC 20001 USA.  
[Agr Conservat Econ](#), Laurel, MD 20723 USA.  
[Woods Hole Res Ctr](#), Falmouth, MA 02540 USA.  
[Iowa State Univ.](#), Ctr Agr & Rural Dev, Ames, IA 50011 USA.

**Field:** [MULTIDISCIPLINARY](#)

2 Citations: 1,068

RESEARCH FRONT WEB OF SCIENCE

**Title:** LAND CLEARING AND THE BIOFUEL CARBON DEBT

**Authors:** [FARGIONE J.](#), [HILL J.](#), [TILMAN D.](#), [POLASKY S.](#), [HAWTHORNE P](#)

**Source:** [SCIENCE](#)  
319 (5867): 1235-1238 FEB 29 2008

**Addresses:** [Univ Minnesota](#), Dept Ecol Evolut & Behav, St Paul, MN 55108 USA.  
[Nature Conservancy](#), Minneapolis, MN 55415 USA.  
[Univ Minnesota](#), Dept Appl Econ, St Paul, MN 55108 USA.

**Field:** [ENVIRONMENT/ECOLOGY](#)

3 Citations: 120

RESEARCH FRONT WEB OF SCIENCE

**Title:** EFFECTS OF US MAIZE ETHANOL ON GLOBAL LAND USE AND GREENHOUSE GAS EMISSIONS: ESTIMATING MARKET-MEDIATED RESPONSES

4 MULTIDISCIPLINARY ENVIRONMENT/ECOLOGY BIOLOGY & BIOCHEMISTRY

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## 70

### RESEARCH FRONTS RANKINGS IN MULTIDISCIPLINARY

Sorted by: Citations SORT AGAIN

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
21	NEURODEGENERATIVE DISEASE, PROTEOSTASIS DEFICIENCY, ADAPTING PROTEOSTASIS, DISEASE INTERVENTION, INDUCIBLE CHAPERONE NETWORKS	3	1,371	457.00	2008.3
22	EUKARYOTIC TRANSCRIPTOME SURVEYED, YEAST GENOME, DYNAMIC REPERTOIRE, RNA SEQUENCING, SINGLE-NUCLEOTIDE RESOLUTION	2	1,298	649.00	2008.0
23	AUTISM SPECTRUM DISORDERS, GLOBAL RARE COPY NUMBER VARIATION, AUTISTIC SPECTRUM DISORDERS, AUTISM IMPLICATE, NOVO VARIANTS	4	1,247	311.75	2010.8
24	ANCESTRAL POLYPLOIDY, POLYPLOIDY, FACILITATING PLANT INVASIONS, VASCULAR PLANTS, SEED PLANTS	8	1,226	153.25	2010.5
25	ACCURATE SHAPE-DIRECTED RNA SECONDARY STRUCTURE MODELING, RNA SECONDARY STRUCTURE PREDICTION, RNA SECONDARY STRUCTURE, ACCURATE SHAPE-DIRECTED RNA STRUCTURE DETERMINATION, MC-SYM PIPELINE INFERS RNA STRUCTURE	11	1,192	108.36	2010.7
26	FEEDING 9 BILLION PEOPLE, CULTIVATED PLANET, FOOD SECURITY, CHALLENGE, SOLUTIONS	2	1,144	572.00	2010.5
27	CLIMATE WARMING, TERRESTRIAL ECTOTHERMS, ECTOTHERMS, LATITUDE, BUFFER COLD-BLOODED ANIMALS	5	1,127	225.40	2009.8
28	CETUXIMAB-RESISTANT COLORECTAL CANCER, COLORECTAL CANCER, EPIDERMAL GROWTH FACTOR RECEPTOR CONFERRING CETUXIMAB RESISTANCE, CANCER THERAPY, ACQUIRED RESISTANCE	9	1,099	122.11	2012.2
29	WHOLE-GENOME ANALYSIS INFORMS BREAST CANCER RESPONSE, BREAST CANCER SUBTYPES, BREAST CANCER, PRIMARY TRIPLE-NEGATIVE BREAST CANCERS, CANCER GENES	4	1,095	273.75	2012.0
30	SYSTEMICALLY ADMINISTERED SIRNA, SIRNA, HUMANS, CYCLODEXTRIN POLYMER-BASED NANOPARTICLE, DELIVERY	2	1,094	547.00	2009.5
31	SOMATIC COPY-NUMBER ALTERATION, HUMAN CANCERS, CANCER GENOME, MUTATION, LANDSCAPE	2	1,013	506.50	2010.0
32	PRECAMBRIAN ATMOSPHERIC OXYGENATION RECORDED, EARTHS EARLY OCEAN, ATMOSPHERIC OXYGEN CORRELATED, FERRUGINOUS CONDITIONS DOMINATED LATER NEOPROTEROZOIC DEEP-WATER CHEMISTRY, LATER CAMBRIAN OCEAN	14	1,011	72.21	2010.9
33	INDIVIDUAL HUMAN MOBILITY PATTERNS, HUMAN MOBILITY, SCALING PROPERTIES, LIMITS, MODELLING	3	999	333.00	2009.3
34	BREAST CANCERS, MULTIPLE HUMAN CANCERS, BREAST CANCER KATAEGIS, HUMAN CANCERS, BREAST CANCER	7	936	133.71	2012.7
35	HEALTHY HUMAN MICROBIOME, HUMAN MICROBIOME RESEARCH, FRAMEWORK, FUNCTION, STRUCTURE	2	914	457.00	2012.0
36	MYCOPLASMA GENITALIUM GENOME, CHEMICALLY SYNTHESIZED GENOME, COMPLETE CHEMICAL SYNTHESIS, BACTERIAL CELL, ASSEMBLY	2	854	427.00	2009.0
37	NECK SQUAMOUS CELL CARCINOMA, ORAL SQUAMOUS CELL CARCINOMA, NECK CANCER DEFINES PREDICTIVE BIOMARKERS, HEAD, FREQUENT SOMATIC DRIVERS	4	850	212.50	2012.0
38	SECONDARY ACUTE MYELOID LEUKEMIA, ACUTE MYELOID LEUKEMIA, RELAPSED ACUTE MYELOID LEUKAEMIA, CLONAL EVOLUTION, CLONAL ARCHITECTURE	3	804	268.00	2012.0
39	ADULT HUMAN HEART, CARDIOMYOCYTE RENEWAL, CARDIOMYOGENESIS, HUMANS, EVIDENCE	2	778	389.00	2009.5
40	TOMATO GENOME SEQUENCE PROVIDES INSIGHTS, GENOME SEQUENCE, FLESHY FRUIT EVOLUTION, TUBER CROP POTATO, ANALYSIS	2	750	375.00	2011.5

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CORE PAPERS IN INDIVIDUAL HUMAN MOBILITY PATTERNS; HUMAN MOBILITY; SCALING PROPERTIES; LIMITS; MODELLING IN MULTIDISCIPLINARY

Sorted by: Citations SORT AGAIN

1 - 3 (of 3)

Page 1 of 1

1 Citations: 641

RESEARCH FRONT WEB OF SCIENCE

Title: UNDERSTANDING INDIVIDUAL HUMAN MOBILITY PATTERNS

Authors: GONZALEZ MC; HIDALGO CA; [BARABASI AL](#)

Source: [NATURE](#)  
455 (7196): 779-782 JUN 5 2008

Addresses: [Northeastern Univ](#), Ctr Complex Network Res, Boston, MA 02115 USA  
[Northeastern Univ](#), Dept Phys Biol & Comp Sci, Boston, MA 02115 USA  
[Univ Notre Dame](#), Ctr Complex Network Res, Notre Dame, IN 46556 USA  
[Univ Notre Dame](#), Dept Phys & Comp Sci, Notre Dame, IN 46556 USA  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA

Field: [MULTIDISCIPLINARY](#)

3 MULTIDISCIPLINARY PHYSICS

2 Citations: 247

RESEARCH FRONT WEB OF SCIENCE

Title: LIMITS OF PREDICTABILITY IN HUMAN MOBILITY

Authors: SONG CM; QU ZH; BLUMM N; [BARABASI AL](#)

Source: [SCIENCE](#)  
327 (5968): 1018-1021 FEB 19 2010

Addresses: [Northeastern Univ](#), Ctr Complex Network Res, Dept Phys, Boston, MA 02115 USA  
[Northeastern Univ](#), Ctr Complex Network Res, Dept Biol, Boston, MA 02115 USA  
[Northeastern Univ](#), Ctr Complex Network Res, Dept Comp Sci, Boston, MA 02115 USA  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA  
[Harvard Univ](#), Sch Med, Dept Med, Boston, MA 02115 USA  
[Univ Elect Sci & Technol China](#), Sch Engn & Comp Sci, Chengdu 610054, Peoples R China

Field: [PHYSICS](#)

Citations: 111  
Title: MODELLING THE SCALING PROPERTIES OF HUMAN MOBILITY  
Authors: SONG CM; KORDS T; WANG P; BARABASI AL  
Source: [J R SOC OPEN](#)  
6 (10): 218-223 OCT 2010  
Addresses: [Northeastern Univ](#), Dept Phys Biol & Comp Sci, Ctr Complex Network Res, Boston, MA 02115 USA  
[Dana Farber Canc Inst](#), Ctr Canc Syst Biol, Boston, MA 02115 USA  
[Harvard Univ](#), Division & Women's Hosp, Sch Med, Dept Med, Boston, MA 02115 USA  
Field: [PHYSICS](#)

3 Citations: 111

RESEARCH FRONT WEB OF SCIENCE

Title: MODELLING THE SCALING PROPERTIES OF HUMAN MOBILITY

# 如何追踪跨学科学科前沿——研究前沿

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## RESEARCH FRONTS RANKINGS IN MULTIDISCIPLINARY

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
61	LYMPHOID CD4 T CELLS ABORTIVELY INFECTED; PYROPTOSIS DRIVES CD4 T-CELL DEPLETION; HIV-1 EVADES INNATE IMMUNE RECOGNITION; CELL DEATH; HIV-1 INFECTION	3	126	42.00	2013.7
62	RESTORING SYSTEMIC GDF11 LEVELS REVERSES AGE-RELATED DYSFUNCTION; YOUNG BLOOD REVERSES AGE-RELATED IMPAIRMENTS; REVERSES AGE-RELATED CARDIAC HYPERTROPHY; YOUNG SYSTEMIC FACTORS; GROWTH DIFFERENTIATION FACTOR 11	4	119	29.75	2013.8
63	DIFFUSE INTRINSIC PONTINE GLIOMA; DIFFUSE INTRINSIC PONTINE GLIOMAS; PEDIATRIC NON-BRAINSTEM HIGH-GRADE GLIOMA; RECURRENT SOMATIC MUTATIONS; ACVR1 MUTATIONS	6	95	15.83	2014.0
64	MYELOMA DRUG LENALIDOMIDE; T CELL REPRESSORS IKAROS; POMALIDOMIDE CO-STIMULATE T CELLS; MULTIPLE MYELOMA CELLS; IMMUNOMODULATORY AGENTS LENALIDOMIDE	3	82	27.33	2014.0
65	ZAIKE EBOLA VIRUS DISEASE; EBOLA VIRUS DISEASE; GENOMIC SURVEILLANCE ELUCIDATES EBOLA VIRUS ORIGIN; ZOONOTIC NICHE; 2014 OUTBREAK	3	76	25.33	2014.0
66	HOLE-CONDUCTOR-FREE PEROVSKITE ORGANIC LEAD IODIDE HETEROJUNCTION THIN-FILM SOLAR CELLS; HOLE-CONDUCTOR-FREE MESOSCOPIC TiO2/CH3NH3PbI3 HETEROJUNCTION SOLAR CELLS BASED; HIGHLY EFFICIENT HOLE CONDUCTOR FREE CH3NH3PbI3 PEROVSKITE SOLAR CELLS; FULLY PR	4	73	18.25	2014.0
67	DECOMPOSERS DRIVES SOIL CARBON STORAGE; MYCORRHIZAL-ASSOCIATED NUTRIENT ECONOMY; TEMPERATE FORESTS; CARBON-NUTRIENT COUPLINGS; MODELING PERSPECTIVES	3	49	16.33	2013.7
68	ENDOTHELIAL CELL-DERIVED ANGIOPOIETIN-2 CONTROLS LIVER REGENERATION; VASCULAR NICHE BALANCE LIVER REGENERATION; DIVERGENT ANGIOCRINE SIGNALS; SPATIOTEMPORAL REOSTAT; FIBROSIS	2	44	22.00	2014.0
69	FILOVIRUS DISEASES; FILOVIRUS INFECTIONS; ADVANCED EBOLA VIRUS INFECTION; BROAD-SPECTRUM NUCLEOSIDE ANALOGUE BCK4430; SMALL ANIMAL MODEL	3	38	12.67	2014.0
70	HIGHLY MULTIPLEXED SUBCELLULAR RNA SEQUENCING; VIVO ANALYSIS (TIVA); LIVE TISSUE; SINGLE CELLS; SITU	2	25	12.50	2014.0

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RESEARCH FRONTS RANKINGS FOR URBAN ECOLOGICAL SYSTEMS

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	URBAN ECOLOGICAL SYSTEMS; URBAN GREEN COMMONS; URBAN GARDENS-RETAINING; URBAN ENVIRONMENTS; CITIES	5	563	112.60	2010.4

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RESEARCH FRONTS RANKINGS FOR CONSUMER RETAIL FOOD ENVIRONMENTS GLOBALLY

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MONITORING FOOD; MONITORING FOODS; CONSUMER RETAIL FOOD ENVIRONMENTS GLOBALLY; MONITORING; FOOD COMPANIES CALORIE-REDUCTION PLEDGES	10	108	10.80	2012.9

1 - 1 (of 1) Page 1 of 1

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# 如何追踪跨学科学科前沿——研究前沿

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**RESEARCH FRONTS RANKINGS FOR FRESHWATER BIODIVERSITY CONSERVATION**

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FRESHWATER BIODIVERSITY CONSERVATION, FRESHWATER CONSERVATION PLANNING; SYSTEMATIC CONSERVATION PLANNING; HUMAN WATER SECURITY, FRESHWATER ECOREGIONS	6	643	107.17	2010.3

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**RESEARCH FRONTS RANKINGS FOR MANGROVE ECOSYSTEMS**

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MANGROVE FORESTS, MANGROVE ECOSYSTEMS, MANGROVE ESTABLISHMENT, CARBON RICH FORESTS, GLOBAL CLIMATE CHANGE	21	234	11.14	2009.2

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**RESEARCH FRONTS RANKINGS FOR FACEBOOK ACTIVITIES**

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	FACEBOOK USE; SOCIAL NETWORKING WEB SITES, USES FACEBOOK; FACEBOOK ACTIVITIES; FACEBOOK USAGE	14	906	64.71	2009.5

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RESEARCH FRONTS RANKINGS FOR EATING BEHAVIOR

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
 	PS + CHROSUCIAL'S1kESS'S1kESS;CENTRAL'UbEStY;EAT;INTBEHAVIORS; EATING	4	522	130.50	2007.5

1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR FINE PARTICLE AIR POLLUTION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	FINE PARTICLE AIR POLLUTION; PARTICLE COMPOSITION; HOSPITAL ADMISSIONS; CHEMICAL COMPOSITION; EMERGENCY ADMISSIONS	4	331	82.75	2008.5

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RESEARCH FRONTS RANKINGS FOR CLIMATE CHANGE ADAPTATION

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CLIMATE CHANGE ADAPTATION, CLIMATE CHANGE POLICY RESPONSES, CLIMATE CHANGE VULNERABILITY RESEARCH, CLIMATE CHANGE IMPACTS, CLIMATE CHANGE	13	508	39.08	2010.8

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR CO2-INDUCED OCEAN ACIDIFICATION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SEA WATER ACIDIFICATION IMPACTS; SEA WATER CARBON DIOXIDE EQUIPMENT; CO2-DRIVEN OCEAN ACIDIFICATION; CO2-INDUCED OCEAN ACIDIFICATION	49	4,100	81.08	2009.5

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR REDUCING AGRICULTURAL WATER USE

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MAXIMIZE CROP WATER PRODUCTIVITY; AQUACROP-THE FAO CROP MODEL; AGRICULTURAL WATER PRODUCTIVITY; BIOMASS WATER PRODUCTIVITY; REDUCING AGRICULTURAL WATER USE	8	654	81.75	2008.8

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Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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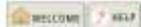
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OR			
BY NAME:	Enter up to five terms or phrases <i>Example: BREAST CANCER</i>	<input type="text"/>	AND or OR to search.
<ul style="list-style-type: none"><li>• Enter <b>CANCER</b> to search for citation data in the areas of</li><li>• Enter <b>HEPATITIS*</b> to search for citation data in the areas of</li><li>• Enter <b>HIV-1</b> to search for citation data in the areas of</li><li>• Enter <b>POLYMER*</b> to search for citation data in the areas of</li></ul>		<ul style="list-style-type: none"><li>BIOLOGY &amp; BIOCHEMISTRY</li><li>(All Fields)</li><li>AGRICULTURAL SCIENCES</li><li>BIOLOGY &amp; BIOCHEMISTRY</li><li>CHEMISTRY</li><li>CLINICAL MEDICINE</li><li>COMPUTER SCIENCE</li><li>ECONOMICS &amp; BUSINESS</li><li>ENGINEERING</li><li>ENVIRONMENT/ECOLOGY</li><li>GEOSCIENCES</li><li>IMMUNOLOGY</li><li>MATERIALS SCIENCE</li><li>MATHEMATICS</li><li>MICROBIOLOGY</li><li>MOLECULAR BIOLOGY &amp; GENETICS</li><li>MULTIDISCIPLINARY</li><li>NEUROSCIENCE &amp; BEHAVIOR</li><li>PHARMACOLOGY &amp; TOXICOLOGY</li><li>PHYSICS</li><li>PLANT &amp; ANIMAL SCIENCE</li></ul>	<h3>RESEARCH FRONTS EXAMPLES</h3> <ul style="list-style-type: none"><li>BREAST CANCER GENE MUTATIONS,</li><li>HEPATITIS-A VIRUS,</li><li>or HIV-1 DISEASE PROGRESSION,</li><li>or POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.</li></ul>

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## RESEARCH FRONTS RANKINGS IN BIOLOGY & BIOCHEMISTRY

Sorted by: Citations

1 - 20 (of 982)

Page 1 of 50

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MACROMOLECULAR CRYSTALLOGRAPHY DATA REDUCTION; AUTOMATED MACROMOLECULAR MODEL BUILDING; MACROMOLECULAR CRYSTALLOGRAPHY; AUTOMATED CRYSTALLOGRAPHIC STRUCTURE REFINEMENT; MACROMOLECULAR STRUCTURE SOLUTION	19	18,974	998.63	2010.6
2	RNA-BINDING PROTEIN HUR COUPLES PRE-MRNA PROCESSING; ENDOGENOUS ARGONAUTE BINDING SITES; MAMMALIAN MICRORNAs PREDOMINANTLY ACT; MICRORNA TARGET SITES; AGO2 BINDING SITES	16	12,746	796.63	2009.8
3	PLURIPOTENT MOUSE STEM CELLS; PLURIPOTENT STEM CELLS FREE; PLURIPOTENT STEM CELLS; HUMAN IPS CELLS; HUMAN CELLS	21	12,104	576.38	2008.9
4	MITOCHONDRIAL DEPOLARIZATION RECRUITS PARKIN; PARKIN E3 UBIQUITIN LIGASE ACTIVITY; DROSOPHILA PARKIN REQUIRES PINK1; PARKIN UBIQUITIN LIGASE; PINK1 DRIVES PARKIN SELF-ASSOCIATION	47	10,554	224.55	2010.5
5	CRISPR RNA-GUIDED DNA RECOGNITION; RNA-GUIDED CRISPR CAS9; RNA-GUIDED HUMAN GENOME ENGINEERING; CRISPR RNA-GUIDED ACTIVATION; CRISPR/CAS ADAPTIVE BACTERIAL IMMUNITY SYSTEM	49	9,170	187.14	2011.7
6	POTENTIAL ALGAL BIODIESEL PRODUCTION; SUSTAINABLE ALGAL BIOFUEL PRODUCTION; BIODIESEL PRODUCTION PROCESS; BIODIESEL PRODUCTION; LIPID PRODUCTION	47	9,060	192.77	2010.1
7	HUMAN A(2A) ADENOSINE RECEPTOR BOUND; AGONIST-BOUND HUMAN A(2A) ADENOSINE RECEPTOR; HUMAN M2 MUSCARINIC ACETYLCHOLINE RECEPTOR BOUND; AGONIST-BOUND ADENOSINE A(2A) RECEPTOR STRUCTURES; HUMAN HISTAMINE H-1 RECEPTOR COMPLEX	26	8,661	333.12	2010.7
8	MICROBIAL DIVERSITY; CHIMERIC 16S RNA SEQUENCE FORMATION; 454-PYROSEQUENCED PCR AMPLICONS; RARE BIOSPHERE; DIVERSITY ESTIMATES	13	8,256	635.08	2010.0
9	TDP-43 MUTANT TRANSGENIC MICE DEVELOP FEATURES; FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS TYPE 6; TDP-43 TRANSGENIC MICE DEVELOP SPASTIC PARALYSIS; FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS; TDP-43 MUTATIONS	25	6,945	277.80	2009.2
10	NOVO RNA-SEQ ASSEMBLY; NOVO SHORT READ ASSEMBLY; NOVO TRANSCRIPTOME ASSEMBLY; SHORT READ SEQUENCE DATA; NOVO ASSEMBLY	16	6,884	430.25	2009.7
11	COLORECTAL CANCER SCREENING 2008; COLORECTAL CANCER SCREENING; COLORECTAL CANCER PATHOGENESIS; COLORECTAL CANCER MORTALITY; COLORECTAL CANCER SEVEN YEARS	33	6,796	205.91	2010.6
12	THYMINE DNA GLYCOSYLASE SPECIFICALLY RECOGNIZES 5-CARBOXYCYTOSINE-MODIFIED DNA; EMBRYONIC STEM CELL DNA; MOUSE EMBRYONIC STEM CELLS; NUCLEAR DNA BASE 5-HYDROXYMETHYLCTYOSINE; ACTIVE DNA DEMETHYLATION	19	6,704	352.84	2010.7
13	ADULT HUMANS TRULY REPRESENTS BROWN ADIPOSE TISSUE; HUMAN BROWN ADIPOSE TISSUE; METABOLICALLY ACTIVE BROWN ADIPOSE TISSUE; BROWN ADIPOSE TISSUE ACTIVITY CONTROLS TRIGLYCERIDE CLEARANCE; RECRUITED BROWN ADIPOSE TISSUE	43	6,487	150.86	2011.9
14	INTERFEROMETRIC FLUORESCENT SUPER-RESOLUTION MICROSCOPY RESOLVES 3D CELLULAR ULTRASTRUCTURE; ISOTROPIC THREE-DIMENSIONAL SUPER-RESOLUTION IMAGING; SUPER-RESOLUTION FLUORESCENCE IMAGING; THREE-DIMENSIONAL SUB-100 NM RESOLUTION FLUORESCENCE MICROSCOPY	46	6,481	140.89	2010.7
15	VISIBLE LIGHT PHOTOREDOX CATALYSIS; VISIBLE-LIGHT PHOTOREDOX CATALYSIS; PHOTOREDOX CATALYZED C-P BOND FORMING REACTIONS-VISIBLE LIGHT; OXIDATIVE VISIBLE LIGHT PHOTOCATALYSIS; ELECTRON TRANSFER PHOTOREDOX CATALYSIS	36	6,199	177.11	2010.9

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47

192.77

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CORE PAPERS IN POTENTIAL ALGAL BIODIESEL PRODUCTION; SUSTAINABLE ALGAL BIOFUEL PRODUCTION; BIODIESEL PRODUCTION PROCESS; BIODIESEL PRODUCTION; LIPID PRODUCTION IN BIOLOGY & BIOCHEMISTRY

Sorted by: Citations		Sort Again
1 - 20 (of 47)		Page 1 of 3
1 Citations: 821		RESEARCH FRONT WEB OF SCIENCE
Title:	MICROALGAL TRIACYLGLYCEROLS AS FEEDSTOCKS FOR BIOFUEL PRODUCTION: PERSPECTIVES AND ADVANCES	
Authors:	HEI Q, SOMMERFELD M, JARVIS K, GHIRARDI M, POSEWITZ M, SEIBERT M, DARGINE A	
Source:	PLANT J 54 (4): 621-639 MAY 2008	
Addresses:	Natl Renewable Energy Lab, Golden, CO 80401 USA. Arizona State Univ, Dept Appl Biol Sci, Mesa, AZ 85212 USA. Colorado Sch Mines, Dept Chem & Geochen, Golden, CO 80401 USA.	
Field:	PLANT & ANIMAL SCIENCE	
2 Citations: 714		RESEARCH FRONT WEB OF SCIENCE
Title:	MICROALGAE FOR BIODIESEL PRODUCTION AND OTHER APPLICATIONS: A REVIEW	
Authors:	MATA TM, MARTINS AA, CAETANO MS	
Source:	RENEW SUSTAIN ENERGY REV 14 (1): 217-232 JAN 2010	
Addresses:	Univ Porto, Fac Engrs, P-4200465 Oporto, Portugal. IPP, Sch Engrs ISEP, P-4200072 Oporto, Portugal.	
Field:	ENVIRONMENT/ECOLOGY	
3 Citations: 568		RESEARCH FRONT WEB OF SCIENCE
Title:	MICROALGAE FOR OIL: STRAIN SELECTION, INDUCTION OF LIPID SYNTHESIS AND OUTDOOR MASS CULTIVATION IN A LOW-COST PHOTOBIOREACTOR	
Authors:	RODOLFI L, ZITTELLI GC, BASSI N, PADOVANI G, BIONDI N, BONINI G, TREDICI MR	

2010.1

PLANT & ANIMAL SCIENCE  
ENVIRONMENT/ECOLOGY BIOLOGY &  
BIOCHEMISTRY ENGINEERING  
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- Enter **CANCER** to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.
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- Enter **HIV-1** to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.
- Enter **POLYMER\*** to search for citation data in the areas of RNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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HIGH-DENSITY LIPOPROTEIN

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	HIGH-DENSITY LIPOPROTEIN VASCULAR PROTECTIVE EFFECTS; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL LEVELS; SIMILAR HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN FUNCTION	48	7,730	161.04	2011.2
2	PLASMA HIGH-DENSITY LIPOPROTEIN LEVELS; PLASMA HIGH-DENSITY LIPOPROTEIN; CONTROL CHOLESTEROL HOMBOSTASIS; FATTY ACID METABOLISM; CHOLESTEROL METABOLISM	10	1,049	104.90	2011.4
3	LOW-DENSITY LIPOPROTEIN (LDL) CHOLESTEROL; LOW-DENSITY LIPOPROTEIN CHOLESTEROL; NON-HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; LDL CHOLESTEROL; NON-HDL CHOLESTEROL	5	367	73.40	2011.8
4	NON-HIGH-DENSITY LIPOPROTEIN CHOLESTEROL REDUCTION; CORONARY HEART DISEASE RISK; STATIN TREATMENT; CARDIOVASCULAR EVENTS; RELATIONSHIP	2	310	155.00	2008.5
5	LOW-DENSITY LIPOPROTEIN (LDL) SUBCLASSES; DYSFUNCTIONAL HDL; CLINICAL SIGNIFICANCE; EXPERT PANEL STATEMENT; RAISING HIGH-DENSITY LIPOPROTEIN CHOLESTEROL (HDL-C)	6	269	44.83	2012.5

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CORE PAPERS IN HIGH-DENSITY LIPOPROTEIN VASCULAR PROTECTIVE EFFECTS; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL LEVELS; SIMILAR HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN CHOLESTEROL; HIGH-DENSITY LIPOPROTEIN FUNCTION

Sorted by: Citations SORT AGAIN

1 - 20 (of 48)

Page 1 of 3

1 Citations: 670

Title: EFFECTS OF COMBINATION LIPID THERAPY IN TYPE 2 DIABETES MELLITUS

Authors: GINSBERG HN, KLAN MB, LOVATO LC, CROUSE JR, LEITER LA, LINZ P, PEINERWALD NT, BUCK JB, GERSTEIN DL, PROSITFIELD J, GRINN RH, ISMAIL-SKIKY F, BIGGER JT, GOFF DC, CUSHMAN WC, SIMONS-MORTON DG, HYINGTON RP

Source: N ENGL J MED 362 (17): 1563-1574 APR 29 2010

Addresses: Columbia Univ Cell Phys & Surg, Dept Med, New York, NY 10032 USA. Memphis Vet Affairs Med Ctr, Memphis, TN USA. Wake Forest Univ, Sch Med, Dept Publ Hlth Sci, Winston Salem, NC 27109 USA. Wake Forest Univ, Sch Med, Prevent Cardiol Program, Winston Salem, NC 27109 USA. Univ Toronto, Toronto, ON, Canada. USN, Med Ctr, San Diego, CA 92162 USA. Columbia Univ, Mailman Sch Publ Hlth, Dept Biostat, New York, NY USA. Columbia Univ, Mailman Sch Publ Hlth, Dept Epidemiol, New York, NY USA. Univ N Carolina, Sch Med, Div Endocrinol, Chapel Hill, NC USA. McMaster Univ, Dept Med, Hamilton, ON, Canada. McMaster Univ, Populat Hlth Res Inst, Hamilton, ON, Canada. UNIV WASHINGTON, SEATTLE, WA 98195 USA. Sarban Ctr Outcomes & Clin Res, Minneapolis, MN USA. Case Western Reserve Univ, Dept Med, Cleveland, OH 44106 USA. Case Western Reserve Univ, Dept Physiol & Biophys, Cleveland, OH 44106 USA. Columbia Univ Cell Phys & Surg, Div Cardiol, New York, NY 10032 USA. NHLBI, Bethesda, MD 20892 USA.

Field: CLINICAL MEDICINE

2 Citations: 620

Title: SIMVASTATIN WITH OR WITHOUT RESIN MONOMER IN ANIMAL EXPERIMENTAL MODEL

Authors: KASTELIEN IJP, AKOBI F, STROES EGG, ZWINDERMAN AH, ROTS ML, STALBORGER APH, VISSEREN FLJ, SLIBRANDS EIG, TRIP MD, STRIN BA, GAUDET D, DUIVENVOORDEN R, VELTRI EP, MARAIS AD, DE GROOT B

48

161.04

2011.2

CLINICAL MEDICINE PHARMACOLOGY & TOXICOLOGY IMMUNOLOGY MOLECULAR BIOLOGY & GENETICS

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<b>Most Cited Papers:</b>	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
<b>Citation Analysis:</b>	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	

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<b>OR</b>			
<b>BY NAME:</b>	<b>Enter up to five terms or phrases AND or OR to search.</b>		SEARCH
	<i>Example: BREAST CANCER</i>		
<ul style="list-style-type: none"><li>• Enter <b>CANCER</b> to search for citation data in the areas of AGRICULTURE, BIOLOGY, CHEMISTRY, CLINICAL MEDICINE, ENVIRONMENT/ECOLOGY, GEOSCIENCES, IMMUNOLOGY, MATERIALS SCIENCE, MATHEMATICS, MICROBIOLOGY, MOLECULAR BIOLOGY &amp; GENETICS, MULTIDISCIPLINARY, NEUROSCIENCE &amp; BEHAVIOR, PHARMACOLOGY &amp; TOXICOLOGY, PHYSICS, PLANT &amp; ANIMAL SCIENCE, PSYCHIATRY/PSYCHOLOGY, SOCIAL SCIENCES, general, SPACE SCIENCE.</li><li>• Enter <b>HEPATITIS*</b> to search for citation data in the areas of AGRICULTURE, BIOLOGY, CHEMISTRY, CLINICAL MEDICINE, ENVIRONMENT/ECOLOGY, GEOSCIENCES, IMMUNOLOGY, MATERIALS SCIENCE, MATHEMATICS, MICROBIOLOGY, MOLECULAR BIOLOGY &amp; GENETICS, MULTIDISCIPLINARY, NEUROSCIENCE &amp; BEHAVIOR, PHARMACOLOGY &amp; TOXICOLOGY, PHYSICS, PLANT &amp; ANIMAL SCIENCE, PSYCHIATRY/PSYCHOLOGY, SOCIAL SCIENCES, general, SPACE SCIENCE.</li><li>• Enter <b>HIV-1</b> to search for citation data in the areas of AGRICULTURE, BIOLOGY, CHEMISTRY, CLINICAL MEDICINE, ENVIRONMENT/ECOLOGY, GEOSCIENCES, IMMUNOLOGY, MATERIALS SCIENCE, MATHEMATICS, MICROBIOLOGY, MOLECULAR BIOLOGY &amp; GENETICS, MULTIDISCIPLINARY, NEUROSCIENCE &amp; BEHAVIOR, PHARMACOLOGY &amp; TOXICOLOGY, PHYSICS, PLANT &amp; ANIMAL SCIENCE, PSYCHIATRY/PSYCHOLOGY, SOCIAL SCIENCES, general, SPACE SCIENCE.</li><li>• Enter <b>POLYMER*</b> to search for citation data in the areas of AGRICULTURE, BIOLOGY, CHEMISTRY, CLINICAL MEDICINE, ENVIRONMENT/ECOLOGY, GEOSCIENCES, IMMUNOLOGY, MATERIALS SCIENCE, MATHEMATICS, MICROBIOLOGY, MOLECULAR BIOLOGY &amp; GENETICS, MULTIDISCIPLINARY, NEUROSCIENCE &amp; BEHAVIOR, PHARMACOLOGY &amp; TOXICOLOGY, PHYSICS, PLANT &amp; ANIMAL SCIENCE, PSYCHIATRY/PSYCHOLOGY, SOCIAL SCIENCES, general, SPACE SCIENCE.</li></ul>	<ul style="list-style-type: none"><li>(All Fields)</li><li>Agricultural Sciences</li><li>Biology &amp; Biochemistry</li><li>Chemistry</li><li>Clinical Medicine</li><li>Computer Science</li><li><b>Economics &amp; Business</b></li><li>Engineering</li><li>Environment/Ecology</li><li>Geosciences</li><li>Immunology</li><li>Materials Science</li><li>Mathematics</li><li>Microbiology</li><li>Molecular Biology &amp; Genetics</li><li>Multidisciplinary</li><li>Neuroscience &amp; Behavior</li><li>Pharmacology &amp; Toxicology</li><li>Physics</li><li>Plant &amp; Animal Science</li><li>Psychiatry/Psychology</li><li>Social Sciences, general</li><li>Space Science</li></ul>	<b>RESEARCH FRONTS EXAMPLES</b> GREENING or BREAST CANCER GENE MUTATIONS. or HEPATITIS-A VIRUS. THERAPY of HIV-1 DISEASE PROGRESSION. CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK	

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## RESEARCH FRONTS RANKINGS IN ECONOMICS & BUSINESS

Sorted by: Citations SORT AGAIN

1 - 20 (of 259)

Page 1 of 13

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	TESTING INDIRECT EFFECTS; COMPARING INDIRECT EFFECTS; MULTIPLE MEDIATOR MODELS; COMPLEX MODELS; RESAMPLING STRATEGIES	3	4,756	1585.33	2008.7
2	SUBJECTIVE WELL-BEING MEASURES; SUBJECTIVE WELL-BEING; POSITIVE PSYCHOLOGICAL WELL-BEING; EMOTIONAL WELL-BEING; PSYCHOLOGICAL WELL-BEING	26	2,869	110.35	2009.7
3	RARE DISASTERS EXPLAIN AGGREGATE STOCK MARKET VOLATILITY; EXPECTED STOCK RETURNS; ULTRA HIGH FREQUENCY VOLATILITY ESTIMATION; STOCK RETURNS; REALIZED VOLATILITY	40	2,766	69.15	2009.8
4	GLOBAL TRADE ANALYSIS PROJECT DATABASE (GTAP-MRIO); MULTI-REGION INPUT-OUTPUT ANALYSIS; GLOBAL MULTI-REGION INPUT-OUTPUT DATABASE; GLOBAL MULTI-REGIONAL ENVIRONMENTALLY EXTENDED INPUT-OUTPUT DATABASE; EMBEDDED CARBON DIOXIDE EMISSION	41	2,567	62.61	2011.2
5	ENERGY CONSUMPTION NEXUS; RENEWABLE ENERGY CONSUMPTION; ENERGY CONSUMPTION EFFECTIVE; ENERGY CONSUMPTION; ECONOMIC GROWTH NEXUS	38	2,356	62.00	2010.2

The lower portion of the image shows a large, dark, and mostly illegible table representing the full list of research fronts. The text is too small and dark to read accurately, but it appears to be a continuation of the table above, listing various research fronts with their respective metrics.

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CORE PAPERS IN PAYMENTS SUPPLY ENVIRONMENTAL SERVICES; ENVIRONMENTAL SERVICES PROGRAMS; ENVIRONMENTAL SERVICES; ECOSYSTEM SERVICES; HYDROLOGICAL SERVICES IN ECONOMICS & BUSINESS

Sorted by: Citations		Sort Again
1 - 16 (of 16)		Page 1 of 1
1 Citations: 325		RESEARCH FRONT WEB OF SCIENCE
Title:	DESIGNING PAYMENTS FOR ENVIRONMENTAL SERVICES IN THEORY AND PRACTICE: AN OVERVIEW OF THE ISSUES	
Authors:	ENGEL S. PAGIOLA S. MUNDER S	
Source:	ECOL ECON 65 (4): 663-674 MAY 1 2008	
Addresses:	ETH, Inst Environm Decis, CH-8092 Zurich, Switzerland. World Bank, Dept Environm, Washington, DC 20433 USA. Embrapa Amazonia Oriental, CIPOR, BR-66095780 Belen, Para, Brazil.	
Field:	ECONOMICS & BUSINESS	
2 Citations: 205		RESEARCH FRONT WEB OF SCIENCE
Title:	TAKING STOCK: A COMPARATIVE ANALYSIS OF PAYMENTS FOR ENVIRONMENTAL SERVICES PROGRAMS IN DEVELOPED AND DEVELOPING COUNTRIES	
Authors:	MUNDER S. ENGEL S. PAGIOLA S	
Source:	ECOL ECON 65 (4): 834-852 MAY 1 2008	
Addresses:	Embrapa Amazonia Oriental, CIPOR, BR-66095780 Belen, Para, Brazil. ETH, Inst Environm Decis, CH-8092 Zurich, Switzerland. World Bank, Dept Environm, Washington, DC 20433 USA.	
Field:	ECONOMICS & BUSINESS	
3 Citations: 141		RESEARCH FRONT WEB OF SCIENCE
Title:	ECOSYSTEM SERVICES: FROM EYE-OPENING METAPHOR TO COMPLEXITY BLINDER	
Authors:	NORGAARD EB	

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RESEARCH FRONTS RANKINGS FOR RENEWABLE ENERGY CONSUMPTION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	RENEWABLE ENERGY CONSUMPTION; ENERGY CONSUMPTION; ECONOMIC GROWTH RELATIONSHIP; ECONOMIC GROWTH NEXUS; ECONOMIC GROWTH	31	1,615	52.10	2009.5

1 - 1 (of 1) Page 1 of 1

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RESEARCH FRONTS RANKINGS FOR DIVERSITY ERODE SOCIAL COHESION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	COMPARATIVE ECONOMIC DEVELOPMENT; DIVERSITY ERODE SOCIAL COHESION; GENERALIZED TRUST; ECONOMIC DEVELOPMENT; HUMAN GENETIC DIVERSITY	18	1,275	70.83	2009.6

1 - 1 (of 1) Page 1 of 1

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## RESEARCH FRONTS RANKINGS IN ECONOMICS & BUSINESS

Sorted by: Mean Year

1 - 20 (of 259)

1 2 3 4 5 6 7 8 9 10

Page 1 of 13

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CONVERTIBLE BOND ISSUERS CONCURRENT TRANSACTIONS, CASH-SETTLED CONVERTIBLE BONDS, CONVERTIBLE BOND FINANCING, CONVERTIBLE BONDS, CONVERTIBLE DEBT	6	23	3.83	2014.0
2	GEOPOLITICAL FORECASTING TOURNAMENT; AGGREGATED PROBABILITY FORECASTS; PSYCHOLOGICAL STRATEGIES; TWO REASONS; EXTREME	2	8	4.00	2014.0
3	INTER-SECTORAL IMPACT MODEL INTERCOMPARISON PROJECT ENSEMBLE; INTER-SECTORAL IMPACT MODEL INTERCOMPARISON PROJECT (ISI-MIP); MULTISECTORAL CLIMATE IMPACT HOTSPOTS; CLIMATE CHANGE EFFECTS; CLIMATE CHANGE	7	78	11.14	2014.0
4	SMALLHOLDER LIVESTOCK SYSTEMS; LIVESTOCK FEEDS; PRODUCTION SYSTEMS; AGRICULTURAL MULTI-MARKET MODELS; ANIMAL DISEASE OUTBREAKS	5	21	4.20	2014.0
5	CONTINUOUS TIME, AMBIGUOUS VOLATILITY, G-BROWNIAN MOTION, BACKWARD STOCHASTIC DIFFERENTIAL EQUATIONS DRIVEN, BSDEs DRIVEN	4	24	6.00	2013.8
6	INTERMEDIARY ASSET PRICING; INSTITUTIONAL THEORY, MACROECONOMIC MODEL, FINANCIAL SECTOR, MOMENTUM	3	35	11.67	2013.3
7	REINVENTING MARKETING STRATEGY; STRATEGIC MARKETING IMPERATIVE; MARKETING DEPARTMENTS; MARKETING BACK; MARKETING	7	104	14.86	2013.3
8	MOTIVATING INNOVATION; CORPORATE INNOVATION; INNOVATION; FIRM BOUNDARIES MATTER; GO PUBLIC	5	88	17.60	2013.2
9	AIR POLLUTION CONTROL; LIFE EXPECTANCY; AIR POLLUTION; CHINAS HJAI RIVER POLICY; 545 US COUNTIES	2	64	32.00	2013.0
10	ANALYSIS & COMMENTARY REDESIGNING PRIMARY CARE; WILT FIX HEALTH CARE; STRATEGIC VISION; PATIENTS NEEDS; VALUE	2	33	16.50	2013.0
11	ASSESSING REGIONAL VIRTUAL WATER FLOWS; DOMESTIC VIRTUAL WATER TRADE; PROVINCIAL WATER FOOTPRINT; WATER FOOTPRINTS; CHINA	2	28	14.00	2013.0
12	CHARISMATICTRANSFORMATIONAL LEADERSHIP RESEARCH; DESTRUCTIVE LEADERSHIP; BAD LEADERS; BAD, CRITICAL ASSESSMENT	2	45	22.50	2013.0
13	CLIMATE CHANGE POLICY; CLIMATE CHANGE; ALREADY NARROW SCIENCE MODELS; MODELS TELL US, GRAFTING GROSS UNDERESTIMATION	2	35	17.50	2013.0
14	CLIMATE CHANGE RESEARCH, CLIMATE CHANGE ANALYSIS, CLIMATE CHANGE, AGNIP-GLOBAL ECONOMIC MODEL INTERCOMPARISON, GLOBAL AGRO- ECONOMIC MODEL COMPARISON	15	379	25.27	2013.0
15	EU EMISSIONS TRADING SCHEME, EMISSIONS TRADING SCHEME, SUPPORT SCHEMES; SUPPORT MITIGATION; SUPPORT	3	38	12.67	2013.0
16	GROUP-LEVEL PROSPECTIVE SENSEMAKING; TOP TEAM MEETINGS; EMOTIONAL DYNAMICS; MATERIAL PRACTICES; ORGANIZING THOUGHTS	2	24	12.00	2013.0
17	INEQUALITY DECOMPOSITION VALUES; DECOMPOSITION PROCEDURES; UNIFIED FRAMEWORK BASED; DISTRIBUTIONAL ANALYSIS; SHAPLEY VALUE	2	24	12.00	2013.0
18	INSTITUTIONAL THEORY PERSPECTIVE; MAINSTREAM MARKETS; MARKET-MEDIATED PRACTICE; TASTE REGIMES; CONSUMER QUESTS	2	23	11.50	2013.0

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CORE PAPERS IN AIR POLLUTION CONTROL; LIFE EXPECTANCY; AIR POLLUTION; CHINAS HUI RIVER POLICY; 545 US COUNTIES IN ECONOMICS & BUSINESS

Sorted by: Citations SORT AGAIN

1 - 2 (of 2)

Page 1 of 1

1 Citations: 38

[NOT PAPER](#) [RESEARCH FRONT](#) [WEB OF SCIENCE](#)

Title: EVIDENCE ON THE IMPACT OF SUSTAINED EXPOSURE TO AIR POLLUTION ON LIFE EXPECTANCY FROM CHINAS HUI RIVER POLICY

Authors: CHEN YY, EBENSTEIN A, GREENSTONE M, LI HD

Source: PROC NAT ACAD SCI USA  
110 (32): 12936-12941 AUG 6 2013

Addresses: Peking Univ, Appl Econ Dept, Guanghua Sch Management, Beijing 100871, Peoples R China.  
Hebrew Univ Jerusalem, Dept Econ, IL-91905 Mt Scopus, Israel.  
MIT, Dept Econ, Cambridge, MA 02142 USA.  
Natl Bur Econ Res, Cambridge, MA 02138 USA.  
Tsinghua Univ, China Data Ctr, Beijing 100084, Peoples R China.  
Tsinghua Univ, Dept Econ, Sch Econ & Management, Beijing 100084, Peoples R China.

Field: ECONOMICS & BUSINESS

SOCIAL SCIENCES, GENERAL ECONOMICS & BUSINESS

2 Citations: 26

[RESEARCH FRONT](#) [WEB OF SCIENCE](#)

Title: EFFECT OF AIR POLLUTION CONTROL ON LIFE EXPECTANCY IN THE UNITED STATES AN ANALYSIS OF 545 US COUNTIES FOR THE PERIOD FROM 2000 TO 2007

Authors: CORREIA AW, POPE CA, DOCKERY DW, HANG Y, EZZATI M, DOMINICI F

Source: EPIDEMIOLOGY  
24 (1): 23-31 JAN 2013

Addresses: Harvard Univ, Sch Publ Hlth, Dept Biostat, Boston, MA 02115 USA.  
Erishan Young Univ, Dept Econ, Provo, UT 84602 USA.  
Harvard Univ, Sch Publ Hlth, Dept Environm Hlth, Boston, MA 02115 USA.  
Harvard Univ, Sch Publ Hlth, Dept Epidemiol, Boston, MA 02115 USA.  
Univ London Imperial Coll Sci Technol & Med, MRC HPA Ctr Environm & Hlth, London, England.  
Univ London Imperial Coll Sci Technol & Med, Dept Epidemiol & Biostat, London, England.

Field: SOCIAL SCIENCES, GENERAL

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## RESEARCH FRONTS MENU

BY FIELD:	Select a topic from this field: (All Fields) <input type="button" value="GO"/>
OR	
BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. <i>Example: BREAST CANCER (more examples)</i>
	<input type="text" value="CLIMATE CHANGE"/> <input type="button" value="SEARCH"/>
	<input type="text" value="CLIMATE CHANGE"/>

### RESEARCH FRONTS EXAMPLES

- **CANCER** - Research on the causes, prevention, and treatment of cancer.
- **HPV** - Research on the human papillomavirus and its role in cancer.
- **BIV** - Research on the structure and function of biological membranes.
- **POLYMER** - Research on the synthesis and properties of synthetic polymers.

Showing 1 - 4 of 4 items

CLIMATE CHANGE

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## RESEARCH FRONTS RANKINGS FOR CLIMATE CHANGE

Sorted by: Citations

1 - 20 (of 86)



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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	COMPARATIVELY HIGH GREENHOUSE GAS EMISSIONS; KEEP GLOBAL MEAN TEMPERATURE, 2 DEGREES C; CLIMATE CHANGE RESEARCH; REPRESENTATIVE CONCENTRATION PATHWAYS	6	2,502	417.00	2011.0
2	EARLY TWENTY-FIRST-CENTURY GLACIER MASS CHANGE; TWENTY-FIRST CENTURY GLACIER MASS CHANGES; HIMALAYAN GLACIERS; REGION-WIDE GLACIER MASS BALANCES; CLIMATE CHANGE WILL AFFECT	20	1,651	82.55	2011.8
3	GLOBAL CLIMATE CHANGE; PERSONALLY RELEVANT CLIMATE CHANGE; CLIMATE CHANGE KNOWLEDGE; ANTHROPOGENIC CLIMATE CHANGE; CLIMATE CHANGE	30	1,473	49.10	2011.2
4	DECADAL CLIMATE PREDICTION; INITIALIZING DECADAL CLIMATE PREDICTIONS; SHORT-TERM CLIMATE CHANGE PREDICTION; DECADAL PREDICTION CASE; DECADAL PREDICTION SKILL	13	1,358	104.46	2010.8
5	PERMAFROST CARBON RELEASE; PERMAFROST CARBON; PERMAFROST CARBON-CLIMATE FEEDBACKS ACCELERATE GLOBAL WARMING; GLOBAL CARBON CYCLE; CLIMATE CHANGE	7	1,326	189.43	2010.1
6	CLIMATE CHANGE IMPACTS; CLIMATE CHANGE SCENARIOS; CLIMATE CHANGE, PROJECTED MAXIMUM FISHERIES CATCH POTENTIAL; MAXIMUM FISHERIES CATCH POTENTIAL	8	938	117.25	2009.8
7	SURFACE WARMING PATTERNS DRIVE TROPICAL RAINFALL PATTERN RESPONSES; TWENTIETH CENTURY TROPICAL SEA SURFACE TEMPERATURE TRENDS; WESTERN TROPICAL PACIFIC SEA LEVEL TRENDS; TROPICAL INDO-PACIFIC CLIMATE CHANGE; TROPICAL INDO-PACIFIC WARMING	19	778	40.95	2012.5
8	MANAGED RELOCATION; CLIMATE CHANGE; VIABLE CONSERVATION STRATEGY, 22 YEARS; ASSISTED COLONIZATION	5	748	149.60	2009.6
9	SHRIMP IMMUNE RESPONSES; INSECT IMMUNE SYSTEM; INSECT CELLULAR IMMUNE RESPONSE; CLIMATE CHANGE; IMPER SPECIES RESPONSES	11	738	67.09	2011.6
10	CLIMATE VARIABILITY; RAINFALL VARIABILITY; HIGH-QUALITY SPATIAL CLIMATE DATA-SETS; CLIMATE CHANGE; SOUTHEASTERN AUSTRALIA	5	736	147.20	2009.2
11	CLIMATE CHANGE ADAPTATION; CLIMATE CHANGE; GLOBAL ENVIRONMENTAL CHANGE II; COMPARING NATIONAL ADAPTATION STRATEGIES; INFORMING ADAPTATION RESPONSES	9	718	79.78	2010.7
12	CLIMATE CHANGE, DISENTANGLING ENVIRONMENTAL; GENETIC RESPONSES; WARMING WORLD; ASSESSING	2	705	352.50	2008.0
13	TERRESTRIAL NITROGEN FEEDBACKS MAY ACCELERATE FUTURE CLIMATE CHANGE; TERRESTRIAL CARBON CYCLE; NITROGEN CYCLE DYNAMICS; 0-CN LAND SURFACE MODEL; CLIMATE-CARBON CYCLE FEEDBACKS	6	643	107.17	2009.3
14	ARMED CIVIL CONFLICT; CLIMATE CHANGE DRIVE LAND-USE CONFLICTS; CLIMATE VARIABILITY; CIVIL CONFLICT; CLIMATE CHANGE	20	614	30.70	2012.1
15	SOUTHERN HEMISPHERE CIRCULATION CHANGE; SOUTHERN HEMISPHERE SURFACE CLIMATE CHANGE; SOUTHERN HEMISPHERE WESTERLY JET; STRATOSPHERIC OZONE DEPLETION; STRATOSPHERIC OZONE RECOVERY	7	591	84.43	2010.6
16	CLIMATE CHANGE; THOREAUS CONCORD; THOREAUS WOODS; COMMUNITY PERSPECTIVE; FLORAL ABUNDANCE	3	533	177.67	2008.0

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### RESEARCH FRONTS RANKINGS FOR INNOVATION SYSTEMS

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SUSTAINABILITY TRANSITIONS; TECHNOLOGICAL INNOVATION SYSTEMS; SOCIO-TECHNICAL TRANSITIONS (TO SUSTAINABILITY); CITIES SHAPE SOCIO-TECHNICAL TRANSITIONS; INNOVATION SYSTEMS	16	1,094	68.38	2009.5

1 - 1 (of 1) Page 1 of 1

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### RESEARCH FRONTS RANKINGS FOR TECHNOLOGICAL DYNAMISM

Sorted by: Citations

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GLOBAL PRODUCTION NETWORKS; REGIONAL TECHNOLOGICAL DYNAMISM; REGIONAL DEVELOPMENT; R&D NETWORKS; TECHNOLOGICAL DYNAMISM	5	284	56.80	2009.6

1 - 1 (of 1) Page 1 of 1

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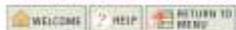
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## RESEARCH FRONTS RANKINGS FOR GREEN SUPPLY CHAIN

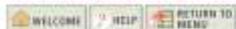
Sorted by: Citations <input type="button" value="SORT AGAIN"/>					
1 - 1 (of 1)		<< < [ ] > >>			Page 1 of 1
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GREEN SUPPLY CHAIN MANAGEMENT LITERATURE; GREEN SUPPLY CHAIN MANAGEMENT PRACTICES IMPLEMENTATION; SUSTAINABLE SUPPLY CHAIN MANAGEMENT; GREEN SUPPLY CHAIN OPTIMISATION; GREEN SUPPLIER SELECTION MODEL	14	782	55.86	2009.2
1 - 1 (of 1)		<< < [ ] > >>			Page 1 of 1

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## RESEARCH FRONTS RANKINGS FOR GLOBAL SUPPLY CHAIN RISK MANAGEMENT

Sorted by: Citations <input type="button" value="SORT AGAIN"/>					
1 - 1 (of 1)		<< < [ ] > >>			Page 1 of 1
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL RATINGS ACTUALLY MEASURE CORPORATE SOCIAL RESPONSIBILITY; CORPORATE SOCIAL RESPONSIBILITY REPORTING; STRATEGIC CORPORATE SOCIAL RESPONSIBILITY; GLOBAL SUPPLY CHAIN RISK MANAGEMENT; MEASURING CORPORATE SOCIAL PERFORMANCE	43	2,263	52.63	2009.5
1 - 1 (of 1)		<< < [ ] > >>			Page 1 of 1

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Citation Rankings:	<ul style="list-style-type: none"><li>- <a href="#">Scientists</a></li><li>- <a href="#">Institutions</a></li><li>- <a href="#">Countries/Territories</a></li><li>- <a href="#">Journals</a></li></ul>	<b>Commentary:</b> <a href="#">IN-CITES</a> <a href="#">SPECIAL TOPICS</a> <a href="#">SCIENCE-WATCH</a>
Most Cited Papers:	<ul style="list-style-type: none"><li>- <a href="#">Highly Cited Papers (last 10 years)</a></li><li>- <a href="#">Hot Papers (last 2 years)</a></li></ul>	
Citation Analysis:	<ul style="list-style-type: none"><li>- <a href="#">Baselines</a></li><li>- <a href="#">Research Fronts</a></li></ul>	



**Research Fronts-**

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<b>BY FIELD:</b>	Select a topic from this field:	Social Sciences, general	GO
<b>OR</b>		(All Fields)	
<b>BY NAME:</b>	Enter up to five terms or phrases	Agricultural Sciences	Enter up to five terms or phrases AND or OR to search.
	Example: BREAST	Biology & Biochemistry	
	<input type="text"/>	Chemistry	
		Clinical Medicine	
		Computer Science	
		Economics & Business	
		Engineering	
		Environment/Ecology	
		Geosciences	
		Immunology	
		Materials Science	
		Mathematics	
		Microbiology	
		Molecular Biology & Genetics	
		Multidisciplinary	
		Neuroscience & Behavior	
		Pharmacology & Toxicology	
		Physics	
		Plant & Animal Science	
		Psychiatry/Psychology	
		Social Sciences, general	
		Space Science	

• Enter **CANCER** to search for citation data in the areas of  
• Enter **HEPATITIS\*** to search for citation data in the areas of  
• Enter **HIV-1** to search for citation data in the areas of  
• Enter **POLYMER\*** to search for citation data in the areas of

**RESEARCH FRONTS EXAMPLES**

SCREENING OF BREAST CANCER GENE MUTATIONS.  
US or HEPATITIS-A VIRUS.  
THERAPY or HIV-1 DISEASE PROGRESSION.  
POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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# 如何追踪社会科学学科前沿——研究前沿

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## 1033

### RESEARCH FRONTS RANKINGS IN SOCIAL SCIENCES, GENERAL

Sorted by: Citations					
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	REDUCING OLDER ADULTS SEDENTARY TIME; ADULTS SEDENTARY TIME; OBJECTIVELY MEASURED SEDENTARY TIME; SEDENTARY TIME; ADULTS SEDENTARY BEHAVIOR DETERMINANTS	35	5,811	166.03	2010.8
2	METFORMIN SELECTIVELY TARGETS CANCER STEM CELLS; CANCER RISK; INCIDENT BREAST CANCER; BREAST CANCER CLINICAL TRIALS; CANCER PATIENTS	48	5,596	116.58	2011.1
3	ALTERNATIVE PROSTATE-SPECIFIC ANTIGEN-BASED PROSTATE CANCER SCREENING STRATEGIES MODEL ESTIMATES; PROSTATE CANCER SCREENING; EARLY PROSTATE CANCER; OVARIAN CANCER SCREENING TRIAL; PROSTATE CANCER BASED	16	5,169	323.06	2011.7
4	HUMAN PAPILLOMAVIRUS-RELATED OROPHARYNGEAL CANCER; ORAL HUMAN PAPILLOMAVIRUS (HPV) 4 YEARS; HUMAN PAPILLOMAVIRUS (HPV) POSITIVE TONSILLAR CARCINOMA; HUMAN PAPILLOMAVIRUS TYPE 16-NEGATIVE HEAD; OROPHARYNGEAL CANCER HPV STATUS DETERMINATION	23	4,854	211.04	2010.4
5	TESTING INDIRECT EFFECTS; COMPARING INDIRECT EFFECTS; MULTIPLE MEDIATOR MODELS; COMPLEX MODELS; RESAMPLING STRATEGIES	5	4,756	1585.33	2008.7
6	GRADE GUIDELINES 6; GRADE GUIDELINES; CLINICAL PRACTICE GUIDELINES; CLINICAL GUIDELINES; EFFECTIVE PUBLIC HEALTH PRACTICE PROJECT QUALITY ASSESSMENT TOOL	37	4,284	115.78	2011.3
7	MECHANICALLY VENTILATED CRITICALLY ILL PATIENTS CARED; VENTILATED CRITICALLY ILL PATIENTS; CRITICALLY ILL PATIENTS; EARLY INTENSIVE CARE SEDATION; EARLY INTENSIVE CARE UNIT MOBILITY THERAPY	24	3,887	161.96	2010.9
8	PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS; US HOSPITAL PALLIATIVE CARE CONSULTATION PROGRAMS; EARLY PALLIATIVE CARE; PALLIATIVE CARE CONSULTATION; CANCER CARE	29	3,828	132.00	2011.0
9	GLOBAL SEA LEVEL ACCELERATION STARTED; GLOBAL SEA LEVEL LINKED; GLOBAL SEA LEVEL RECONSTRUCTIONS; ESTIMATING GLOBAL OCEAN HEAT CONTENT CHANGES; CONTEMPORARY SEA LEVEL RISE	46	3,697	80.37	2011.5
10	HABENULAR ALPHA 5 NICOTINIC RECEPTOR SUBUNIT SIGNALING CONTROLS NICOTINE INTAKE; ACETYLCHOLINE RECEPTOR (ACHR) ALPHA 5 SUBUNIT VARIANT; NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT GENES; NICOTINIC RECEPTOR GENE VARIANTS; ALPHA-5/ALPHA-3 NICOTINIC RECEPTOR	12	3,293	274.42	2009.2
11	PRIMARY CERVICAL CANCER SCREENING TEST; ABNORMAL CERVICAL CANCER SCREENING TESTS; PRIMARY CERVICAL CANCER SCREENING; CERVICAL CANCER SCREENING; PRIMARY HUMAN PAPILLOMAVIRUS SCREENING	25	3,119	124.76	2010.3
12	KIDNEY DISEASE POPULATION COHORTS; CHRONIC KIDNEY DISEASE; KIDNEY DISEASE; ADVERSE KIDNEY OUTCOMES; END-STAGE RENAL DISEASE	18	2,983	165.72	2010.8
13	BIVALENT HUMAN PAPILLOMAVIRUS L1 VIRUS-LIKE PARTICLE VACCINE; HUMAN PAPILLOMAVIRUS (HPV)-16/18 AS04-ADJUVANTED VACCINE; PHYSICIANS HUMAN PAPILLOMAVIRUS VACCINE RECOMMENDATIONS; NATIONAL HUMAN PAPILLOMAVIRUS VACCINATION PROGRAMME; HUMAN PAPILLOMAVIRUS	28	2,916	104.14	2011.4
14	MATERNAL EARLY PREGNANCY VITAMIN D STATUS; LOW SERUM VITAMIN D LEVELS; SERUM VITAMIN D LEVELS; MATERNAL VITAMIN D STATUS; MATERNAL VITAMIN D DEFICIENCY	23	2,798	121.65	2010.1

# Transdisciplinary Graduate Education and Training in Nutrition and Family Sciences or Child Development or Related Fields to Prevent Childhood Obesity

Opp ID: 123959 | Training, Scholarship, or Fellowship Research | Last edited on 21 May 2014

Full Details

Website <http://www.nifa.usda.gov/funding/rfas/afri.html>

Sponsor United States Department of Agriculture (USDA)  
National Institute of Food and Agriculture (NIFA)  
Agriculture and Food Research Initiative (AFRI)  
Childhood Obesity Prevention Challenge Area  
Sponsor ID: A2121

Amount **Upper \$5,000,000 USD**  
Standard grants must not exceed \$1 million per year (\$5 million total, including indirect costs) for project periods of up to five years.  
  
As part of the total grant request, the contribution to the graduate stipend is... [more »](#)

Requirements Academic Institution  
Commercial  
Government  
New Faculty/New Investigator  
Nonprofit  
Ph.D./M.D./Other Professional

Citizenship or Residency United States

Activity location United States

Abstract Applicants must address the **development** of innovative, **research**-based graduate education and training activities focused on obesity prevention in children using the knowledge base of nutrition and the related knowledge... [more »](#)

Eligibility Eligible applicants include  
- state agricultural experiment stations;  
- colleges and universities (including junior colleges offering associate degrees or higher);  
- university **research** foundations;  
- other **research**... [more »](#)

Keywords Graduate Education Nutrition Education Behavioral or Social Studies

Track 0 others

Set to Active 0 others

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Potential Collaborators

5007 from outside institutions

Funding Contact Person

U.S. Department of Agriculture  
National Institute of Food and  
Agriculture  
AFRI Program Office  
1430 Independence Avenue, SW,  
Stop 620

Washington, District of Columbia  
20250-2201

Phone: +1 (202) 401-5022

[AFRI@nifa.usda.gov](mailto:AFRI@nifa.usda.gov)

[more »](#)

USDA

National Institute of Food and  
Agriculture (NIFA)

NIFA Agriculture and Food  
Research Initiative (AFRI)

AFRI Childhood  
Obesity Prevention Challenge Area

**\$5,000,000USD**

USDA

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RESEARCH FRONTS MENU

BY FIELD: Select a topic from this field. (All Fields) [GO]

OR

BY NAME: Enter up to five terms or phrases separated by the operators AND or OR to search.  
Example: BREAST CANCER [\(more examples\)](#)  
Childhood Obesity [SEARCH]

RESEARCH FRONTS EXAMPLES

- Enter **CANCER** to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.
- Enter **HEPATITIS\*** to search for citation data in the areas of HEPATITIS-G VIRUS or HEPATITIS-A VIRUS.
- Enter **HIV-1** to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.
- Enter **POLYMER\*** to search for citation data in the areas of RDNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.

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Childhood Obesity

148

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1. Incidence of **Childhood Obesity** in the United States

作者: Cunningham, Solveig A.; Kramer, Michael R.; Narayan, K. M. Venkat  
NEW ENGLAND JOURNAL OF MEDICINE 卷: 370 期: 5 页: 403-411 出版年: JAN 30 2014

 出版商处的全文 [查看摘要](#)

被引频次: 67  
(来自 Web of Science 的核心合集)

 热点论文

 高被引论文

# 追踪儿童肥胖跨学科——研究前沿

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**RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY**

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHILDHOOD OBESITY; OBESITY; TELEVISION CONTENT TYPE; TELEVISION; FAST-FOOD RESTAURANT ADVERTISING	3	181	60.33	2009.0
2	US CHILDHOOD OBESITY; US PRESCHOOL CHILDREN; OBESITY; RISING SOCIAL INEQUALITIES; ETHNIC GROUPS	2	167	83.50	2009.5
3	COMMUNITY GARDEN-BASED OBESITY PREVENTION PROGRAM; CHILDHOOD OBESITY PREVENTION; ADDRESS CHILDHOOD OBESITY; CHILDHOOD OBESITY; LATINO COMMUNITY	12	53	4.42	2013.0

1 - 3 (of 3) Page 1 of 1

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**RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY**

Sorted by: Citations [SORT AGAIN]

1 - 3 (of 3) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	OVERWEIGHT PREVALENCE (YOUNG); CHILDHOOD OBESITY; CHILDHOOD OVERWEIGHT; OBESITY EPIDEMIOLOGY; OBESITY	4	430	107.50	2010.8
2	US CHILDHOOD OBESITY; US PRESCHOOL CHILDREN; OBESITY; RISING SOCIAL INEQUALITIES; DIFFERENT RACIAL	2	222	111.00	2009.5
3	LIMIT RANDOMISED TRIAL; RANDOMISED EVIDENCE; ANTENATAL LIFESTYLE ADVICE; CHILDHOOD OBESITY; UNITED STATES	3	150	50.00	2013.3

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SOCIAL SCIENCES, GENERAL ECONOMICS & BUSINESS

CORE PAPERS IN CHILDHOOD OBESITY; OBESITY; TELEVISION CONTENT TYPE; TELEVISION; FAST-FOOD RESTAURANT ADVERTISING

Sorted by: Citations SORT ASIAN

1 - 3 (of 3)

Page 1 of 1

1 Citations: 80	<a href="#">Title</a>	A CRISIS IN THE MARKETPLACE: HOW FOOD MARKETING CONTRIBUTES TO CHILDHOOD OBESITY AND WHAT CAN BE DONE	<a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
<b>Authors:</b>		HARRIS JL; POMERANZ JL; LOBSTEIN T; BROWNELL KD	
<b>Source:</b>		<a href="#">ANNU REV PUBLIC HEALTH</a> 30: 211-225 2009	
<b>Addresses:</b>		Yale Univ, Rudd Ctr Food Policy & Obes, New Haven, CT 06520 USA. Im Obes TaskForce, London NW1 2NR, England	
<b>Field:</b>		<a href="#">SOCIAL SCIENCES, GENERAL</a>	
2 Citations: 61	<a href="#">Title</a>	FAST-FOOD RESTAURANT ADVERTISING ON TELEVISION AND ITS INFLUENCE ON CHILDHOOD OBESITY	<a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
<b>Authors:</b>		CHOU SY; RASHAD I; GROSSMAN M	
<b>Source:</b>		<a href="#">J LAW ECON</a> 51 (4): 599-618 NOV 2008	
<b>Addresses:</b>		Lehigh Univ, Bethlehem, PA 18015 USA. Georgia State Univ, Atlanta, GA 30303 USA. CUNY, New York, NY 10021 USA	
<b>Field:</b>		<a href="#">ECONOMICS &amp; BUSINESS</a>	
3 Citations: 40	<a href="#">Title</a>	ASSOCIATIONS OF TELEVISION CONTENT TYPE AND OBESITY IN CHILDREN	<a href="#">RESEARCH FRONT</a> <a href="#">WEB OF SCIENCE</a>
<b>Authors:</b>		ZIMMERMAN FJ; BELL JF	
<b>Source:</b>		<a href="#">AMER J PUBLIC HEALTH</a> 100 (2): 334-340 FEB 2010	

# 追踪儿童肥胖跨学科——研究前沿

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WELCOME HELP RETURN TO MENU

## RESEARCH FRONTS RANKINGS FOR CHILDHOOD OBESITY

Sorted by: Citations SORT AGAIN

1 - 6 (of 6) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHILDHOOD OBESITY; OBESITY STIGMA; TELEVISION FOOD ADVERTISING	19	1,110	58.42	2009.3
2	FUTURE ADULT CORONARY HEART DISEASE; CHILDHOOD BODY-MASS INDEX; CARDIOVASCULAR RISK FACTORS; CHILDHOOD OBESITY; PREMATURE DEATH	3	710	236.67	2008.0
3	SCHOOL-BASED PHYSICAL ACTIVITY INTERVENTIONS; PHYSICAL ACTIVITY LEVELS; SCHOOL-BASED INTERVENTIONS; PREVENT CHILDHOOD OBESITY; OBESITY GUIDANCE PRODUCED	2	189	94.50	2009.0
4	CHILDHOOD ADIPOSITY; CARDIOVASCULAR RISK FACTORS; ADULT ADIPOSITY; CHILDHOOD OBESITY; ADOLESCENT BMI TRAJECTORY	3	141	47.00	2011.6
5	CHILDHOOD OBESITY; FAST FOOD RESTAURANTS; MEDICAL CARE COSTS; INSTRUMENTAL VARIABLES APPROACH; WEIGHT GAIN	3	72	24.00	2010.6
6	COMMUNITY GARDEN-BASED OBESITY PREVENTION PROGRAM; CHILDHOOD OBESITY PREVENTION; ADDRESS CHILDHOOD OBESITY; LATINO COMMUNITY; LATINO CHILDREN'S PHYSICAL HEALTH	13	52	4.00	2013.0

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CORE PAPERS IN CHILDHOOD OBESITY; OBESITY STIGMA; TELEVISION FOOD ADVERTISING IN SOCIAL SCIENCES, GENERAL

Sorted by: Citations SORT AGAIN

1 - 19 (of 19) Page 1 of 1

1 Citations: 223

**Title:** THE STIGMA OF OBESITY: A REVIEW AND UPDATE

**Authors:** PUHL RM; HEUER CA

**Source:** [OBESITY](#)  
17 (5): 941-964 MAY 2009

**Addresses:** [Yale Univ.](#), Rudd Ctr Food Policy & Obes, New Haven, CT 06520 USA.

**Field:** [BIOLOGY & BIOCHEMISTRY](#)

2 Citations: 206

**Title:** STIGMA, OBESITY, AND THE HEALTH OF THE NATION'S CHILDREN

**Authors:** PUHL RM; LATNER JD

**Source:** [PSYCHOL BULL](#)  
133 (4): 557-580 JUL 2007

**Addresses:** [Yale Univ.](#), Rudd Ctr Food Policy & Obes, 309 Edw. St., New Haven, CT 06520 USA.  
[Univ Hawaii Manoa](#), Dept Psychol, Honolulu, HI 96822 USA.

**Field:** [PSYCHIATRY/PSYCHOLOGY](#)

3 Citations: 87

**Title:** THE PERILS OF IGNORING HISTORY: BIG TOBACCO PLAYED DIRTY AND MILLIONS DIED. HOW SIMILAR IS BIG FOOD ?

**Authors:** [BROWNELL KD](#); [WARNER KE](#)

# 追踪儿童肥胖跨学科——研究前沿

- **CHILDHOOD OBESITY; OBESITY INTERVENTION STRATEGIES; GLOBAL OBESITY PANDEMIC; TELEVISION FOOD ADVERTISING; FOOD PRICES 20**

3 Citation: 66 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6121](#)

Title: THE PERILS OF IGNORING HISTORY: BIG TOBACCO PLAYED DIRTY AND MILLIONS DIED. HOW SIMILAR IS BIG FOOD? <

Authors: [BROOKHILL KD](#), [WAFNER KE](#) <

Source: [MILBANK QUART](#) <

37 (1) 258-294 MAR 2009 <

Addresses: [Yale Univ](#), [Fuld Cr Food Policy & Obes](#), 309 Edwards Bldg, New Haven, CT 06520 USA. <

[Yale Univ](#), [Fuld Cr Food Policy & Obes](#), New Haven, CT 06520 USA. <

[Ther Michaux](#), [Ann Arbor, MI 48109 USA](#) <

Field: [SOCIAL SCIENCES GENERAL](#) <

2 Citation: 64 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6120](#)

Title: FRIMING EFFECTS OF TELEVISION FOOD ADVERTISING ON EATING BEHAVIOR <

Authors: [HARRIS JL](#), [RAGHIA J](#), [BROOKHILL KD](#) <

Source: [HEALTH PSYCHOL](#) <

21 (4) 404-413 JUL 2009 <

 江苏教育学院  
常熟 常熟理工学院  
常熟 常熟理工学院

Addresses: [Yale Univ](#), [Dept Psychol](#), [POB 200205](#), [New Haven, CT 06520 USA](#). <

[Yale Univ](#), [Dept Psychol](#), [New Haven, CT 06520 USA](#) <

Field: [PSYCHIATRY/PSYCHOLOGY](#) <

3 Citation: 63 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6119](#)

Title: OBESITY 1: THE GLOBAL OBESITY PANDEMIC SHAPED BY

3 Citation: 63 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6119](#)

Title: OBESITY 1: THE GLOBAL OBESITY PANDEMIC SHAPED BY GLOBAL DRIVERS AND LOCAL ENVIRONMENTS <

Authors: [SWINBURN BA](#), [SACKS G](#), [MALL KD](#), [MCPHERSON K](#), [FINEGOOD DT](#), [MOODIE ML](#), [GORTMAKER SL](#) <

Source: [LANCET](#) <

378 (9793) 804-814 AUG-SEP 2011 <

Addresses: [Deakin Univ](#), [WHO Collaborating Ctr Obes Prevent](#), [Melbourne, Vic 3125, Australia](#). <

[NICHD](#), [NIH](#), [Washington, DC USA](#). <

[Univ Oxford](#), [New Coll, Oxford, England](#). <

[Simon Fraser Univ](#), [Dept Biomed Physiol & Kinesiol](#), [Vancouver, BC, Canada](#). <

[Harvard Univ](#), [Dept Soc Human Dev & HBS](#), [Harvard Sch Publ Hlth](#), [Boston, MA 02115 USA](#) <

Field: [CLINICAL MEDICINE](#) <

4 Citation: 56 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6118](#)

Title: OBESITY 2: HEALTH AND ECONOMIC BURDEN OF THE PROJECTED OBESITY TRENDS IN THE USA AND THE UK <

Authors: [WANG YC](#), [MCPHERSON K](#), [MARSH T](#), [GORTMAKER SL](#), [BROOKHILL KD](#) <

Source: [LANCET](#) <

378 (9793) 815-825 AUG-SEP 2011 <

Addresses: [Columbia Univ](#), [Dept Hlth Policy & Management](#), [Malman Sch Publ Hlth](#), [New York, NY 10032 USA](#). <

[Univ Oxford](#), [New Coll, Oxford, England](#). <

[Harvard Univ](#), [Dept Soc Human Dev & HBS](#), [Harvard Sch Publ Hlth](#), [Boston, MA 02115 USA](#). <

[Hlth Hspt Forum](#), [London, England](#) <

Field: [CLINICAL MEDICINE](#) <

5 Citation: 55 [Cite](#) [RESEARCH FRONT](#) [REF ID: A6117](#)

Title: FOOD PRICES AND OBESITY: EVIDENCE AND POLICY IMPLICATIONS FOR TAXES AND SUBSIDIES <

Authors: [POWELL LM](#), [CHALOUPKA FJ](#) <

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RESEARCH FRONTS RANKINGS FOR PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	PALLIATIVE CARE CONSULTATION TEAMS CUT HOSPITAL COSTS; US HOSPITAL PALLIATIVE CARE CONSULTATION PROGRAMS, EARLY PALLIATIVE CARE, PALLIATIVE CARE INTERVENTION, PALLIATIVE CARE	27	3,092	114.52	2010.8

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**SOCIAL SCIENCES, GENERAL CLINICAL MEDICINE**

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RESEARCH FRONTS RANKINGS FOR REDUCING OLDER ADULTS SEDENTARY TIME

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	REDUCING OLDER ADULTS SEDENTARY TIME, ADULTS SEDENTARY TIME, OBJECTIVELY MEASURED SEDENTARY TIME, ADULTS SEDENTARY BEHAVIOR DETERMINANTS, SEDENTARY TIME	36	4,813	133.69	2010.7

**SOCIAL SCIENCES, GENERAL CLINICAL MEDICINE AGRICULTURAL SCIENCES**

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RESEARCH FRONTS RANKINGS FOR REDUCING OLDER ADULTS SEDENTARY TIME

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	REDUCING OLDER ADULTS SEDENTARY TIME, ADULTS SEDENTARY TIME, OBJECTIVELY MEASURED SEDENTARY TIME, ADULTS SEDENTARY BEHAVIOR DETERMINANTS, SEDENTARY TIME	36	4,813	133.69	2010.7

**SOCIAL SCIENCES, GENERAL CLINICAL MEDICINE**

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RESEARCH FRONTS RANKINGS FOR DIETARY SODIUM INTAKE

Sorted by: Citations SORT AGAIN

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	AMERICAN HEART ASSOCIATION SODIUM REDUCTION RECOMMENDATIONS; DIETARY SODIUM INTAKE; REDUCING POPULATION SALT INTAKE WORLDWIDE; DIETARY SALT INTAKE; ESTIMATING 24-HOUR URINARY SODIUM EXCRETION	20	1,879	93.95	2011.1

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**SOCIAL SCIENCES, GENERAL CLINICAL MEDICINE**

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WELCOME HELP RETURN TO MENU

RESEARCH FRONTS RANKINGS FOR BREAST CANCER SURVIVORS

Sorted by: Citations SORT AGAIN

1 - 2 (of 2) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	BREAST CANCER SURVIVORS; BREAST CANCER DIAGNOSIS; ADULT CANCER SURVIVORS; COLORECTAL CANCER SURVIVORS; CANCER SURVIVORS	16	1,654	103.38	2010.1
2	BREAST CANCER SURVIVORS 20 YEARS; CHEMOTHERAPY-TREATED BREAST CANCER SURVIVORS; BREAST CANCER; CANCER TASK FORCE RECOMMENDATIONS; CANCER	6	207	34.50	2012.3

1 - 2 (of 2) Page 1 of 1

**SOCIAL SCIENCES, GENERAL CLINICAL MEDICINE  
PSYCHIATRY/PSYCHOLOGY**

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**CLINICAL MEDICINE NEUROSCIENCE & BEHAVIOR**

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RESEARCH FRONTS RANKINGS FOR SOCIAL MEDIA;

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER	16	442	27.62	2011.2
2	SOCIAL MEDIA; NEW HYBRID ELEMENT; FUNCTIONAL BUILDING BLOCKS; PROMOTION MIX; CHALLENGES	3	270	90.00	2010.0
3	GOVERNMENT SOCIAL MEDIA USAGE; SOCIAL MEDIA; ANTI-CORRUPTION TOOLS; POLICES; CHALLENGES	2	41	20.50	2011.0

1 - 3 (of 3) Page 1 of 1

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WELCOME HELP RETURN TO MENU

RESEARCH FRONTS RANKINGS FOR NEWS MEDIA ENABLE ESTIMATION

Sorted by: Citations SORT AGAIN

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER	16	442	27.62	2011.2

1 - 1 (of 1) Page 1 of 1

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COMPUTER SCIENCE CLINICAL MEDICINE PSYCHIATRY/PSYCHOLOGY SOCIAL SCIENCES, GENERAL

CORE PAPERS IN SOCIAL MEDIA TECHNOLOGY; SOCIAL MEDIA; NEWS MEDIA ENABLE ESTIMATION; TWITTER MOOD; TWITTER POWER

Sorted by: Citations SORT AGAIN

1 - 16 (of 16)

Page 1 of 1

1 Citations: 64	TWITTER POWER: TWEETS AS ELECTRONIC WORD OF MOUTH	16	27.62
Authors:	JANSEN BJ; ZHANG MM; SOBEL K; CHOWDURY A		
Source:	J AM SOC INF SCI TECHNOL 60 (11): 2169-2188 NOV 2009		
Addresses:	Penn State Univ, Coll Informat Sci & Technol, University Pk, PA 18802 USA. Penn State Univ, Smeal Coll Business Adm, University Pk, PA 18802 USA. Twitter Inc, San Francisco, CA 94107 USA.		
Field:	SOCIAL SCIENCES, GENERAL		
2 Citations: 60	TWITTER MOOD PREDICTS THE STOCK MARKET	2011.2	
Authors:	BOLLEN J; MAO HN; ZENG XJ		
Source:	J COMPUT SCI 2 (1): 1-8 MAR 2011		
Addresses:	Indiana Univ, Sch Informat & Comp, Bloomington, IN 47408 USA. Univ Manchester, Sch Comp Sci, Manchester M13 9PL, Lancs, England. Indiana Univ, Sch Informat & Comp, 919 E 10th St, Bloomington, IN 47408 USA.		
Field:	COMPUTER SCIENCE		
3 Citations: 42	THE USE OF TWITTER TO TRACK LEVELS OF DISEASE ACTIVITY AND PUBLIC CONCERN IN THE US DURING THE INFLUENZA A H1N1 PANDEMIC		
Authors:	SIGNORINIA I; SEGRE AM; POLGREEN PM		
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作者: Guo, Xuezhi  
CHINA QUARTERLY 卷 219 页 897-924 出版年: SEP 2014  
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- Investigating the Causal Relationships between Causes of and Vulnerabilities to Corruption in the Chinese Public Construction Sector**  
作者: Li, Yun; Shan, Ming; Chan, Albert P. C. 等  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT 卷 140 期 9 文献号: 05014007 出版年: SEP 2014  
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- Making Law: Small-Scale Trade and Corrupt Exceptions at the Vietnam-China Border**  
作者: Endres, Kirsten W.  
AMERICAN ANTHROPOLOGIST 卷 116 期 3 页 611-625 出版年: SEP 2014  
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- Hunting corrupt officials online: the human flesh search engine and the search for justice in China**  
作者: Gao, Li; Stanley, James  
INFORMATION COMMUNICATION & SOCIETY 卷 17 期 7 页 914-929 出版年: AUG 9 2014  
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- After the Bo Xilai Trial: Does Corruption Threaten China's Future?**  
作者: Broadhurst, Roderic; Wang, Peng  
SURVIVAL 卷 55 期 3 页 167-177 出版年: JUN/JUL 2014  
[出版商处的全文](#) 被引频次: 0 (来自 Web of Science 核心合集)
- The stained China miracle: Corruption, regulation, and firm performance**  
作者: Jiang, Ting; He, Huihua  
ECONOMICS LETTERS 卷 123 期 3 页 366-369 出版年: JUN 2014  
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2. **Is corruption in China "out of control"? A comparison with the US in historical perspective**  
作者: Ramirez, Carlos D.  
JOURNAL OF COMPARATIVE ECONOMICS 卷: 42 期: 1 页: 76-91 出版年: FEB 2014  
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3. **Double Paradox. Rapid Growth and Rising Corruption in China**  
作者: Osipian, Ararat L.  
EUROPE-ASIA STUDIES 卷: 66 期: 1 页: 172-173 出版年: JAN 2 2014  
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4. **China's land market auctions: evidence of corruption?**  
作者: Cai, Huanhui; Henderson, J. Murray; Zhang, Qianhua  
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### China's land market auctions: evidence of corruption?

作者: Cai, HB (Cai, Hongbin)<sup>1</sup>; Henderson, JV (Henderson, J. Vernon)<sup>2</sup>; Zhang, QH (Zhang, Qinghua)<sup>1</sup>

RAND JOURNAL OF ECONOMICS  
卷: 44 期: 3 页: 488-521  
DOI: 10.1111/1756-2171.12028  
出版年: SEP 2013  
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#### 摘要

In China, urban land is allocated by leasehold sales by local officials. Attempting to end widespread corruption, the government now requires sales to be conducted publicly, by either English or two-stage auctions. However, corruption persists through the choice of auction format and pre-auction site deals between favored bidders and local officials. Two-stage auctions have a first stage where favored developers signal that auctions are taken, deterring entry of other bidders. Empirics show that both sales prices and competition are significantly less for two-stage than English auctions. Selection on unobserved property characteristics is positive: officials divert hotter properties to two-stage auctions.

#### 关键词

KeyWords Plus: SELECTION; PROCUREMENT; COMPETITION; COSTS; BIDS

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## RESEARCH FRONTS RANKINGS FOR LARGE SOCIAL NETWORK

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 <input type="checkbox"/> <input type="checkbox"/>	LARGE SOCIAL NETWORK; SOCIAL NETWORKS; OBESITY CONTAGIOUS; OBESITY EPIDEMIC; 20 YEARS	5	1,264	252.80	2007.8

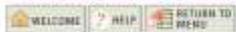
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1 <input type="checkbox"/> <input type="checkbox"/>	USE SOCIAL NETWORKING SITES, ONLINE SOCIAL NETWORK SITES, COLLEGE STUDENTS' NETWORKING EXPERIENCES, SOCIAL MEDIA USE, ONLINE SOCIAL NETWORKING	40	1,685	42.12	2010.0

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	INTERNET SOCIAL NETWORKS; ONLINE SOCIAL NETWORK EXPERIMENT; ONLINE SOCIAL NETWORK; SOCIAL NETWORKS; OBSERVATIONAL SOCIAL NETWORK	20	968	48.40	2010.5

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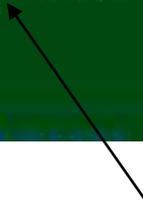
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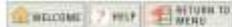
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## RESEARCH FRONTS RANKINGS FOR USER ACCEPTANCE

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 <input type="checkbox"/> <input checked="" type="checkbox"/>	TECHNOLOGY ACCEPTANCE MODEL; CONSUMER E-SHOPPING ACCEPTANCE; USER ACCEPTANCE; CONSUMER ONLINE PURCHASE INTENTIONS; WEB QUALITY	9	579	64.33	2008.4

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	KNOWLEDGE SHARING MOTIVATION; EMPLOYEE KNOWLEDGE SHARING INTENTIONS; KNOWLEDGE SHARING BEHAVIOR; KNOWLEDGE SHARING; TECHNOLOGY ACCEPTANCE	5	394	78.80	2008.6

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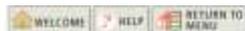
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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	UNIVERSITY-INDUSTRY RELATIONSHIPS; UNIVERSITY-INDUSTRY LINKAGES; FORMAL INTELLECTUAL PROPERTY RIGHTS HINDER; ANTI-COMMONS HYPOTHESIS; UNIVERSITY ENTREPRENEURSHIP	5	493	98.60	2007.2

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## RESEARCH FRONTS RANKINGS FOR TEAM SCIENCE

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	TRANSDISCIPLINARY COLLABORATION; TEAM SCIENCE; CONTEXTUAL; ECOLOGY; KNOWLEDGE	2	316	158.00	2007.5

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	ONLINE TRAVEL INFORMATION SEARCH; TOURISM MANAGEMENT; ONLINE HOTEL REVIEWS; 20 YEARS; INFORMATION TECHNOLOGY	4	278	69.50	2008.8
2	CLIMATE CHANGE; TOURISM; OPERATIONAL GREENHOUSE GAS EMISSION REDUCTION TARGETS; ACHIEVING VOLUNTARY REDUCTIONS; DEMAND RESPONSE	3	91	30.33	2010.7

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	SUBJECTIVE WELL-BEING; LIFE EVALUATION; EMOTIONAL WELL-BEING; HUMAN WELL-BEING; WELL-BEING U-SHAPED	12	1,277	106.42	2008.5

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**RESEARCH FRONTS RANKINGS FOR RISK IDENTIFICATION METHODS**

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	RISK IDENTIFICATION SYSTEM; RISK IDENTIFICATION METHODS; RISK IDENTIFICATION; EMPIRICAL PERFORMANCE; ANALYSIS SYSTEM	15	299	19.93	2012.1

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	ANTIDIRECTOR RIGHTS INDEX; COUNTRIES MATTER SO; CORPORATE GOVERNANCE; ECONOMICS; LAW	3	428	142.67	2008.3

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1  	MORAL STATISTICS; ENRICO MORSELLIS SUICIDE; SUICIDE; SOCIOLOGY'S ONE LAW; ALEXANDER VON OETTINGEN	2	9	4.50	2013.0

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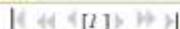
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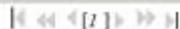
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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	SCIENTOMETRIC EVALUATION; SCIENTOMETRIC APPROACH; AYHAN DEMIRBAS' SCIENTOMETRIC BIOGRAPHY; RESEARCH; BIODIESEL	7	265	37.86	2011.1
2	SCIENTOMETRIC EVALUATION; SCIENTOMETRIC APPROACH; HIGHER EDUCATION; RESEARCH; CITATION-BASED RANKINGS	5	51	10.20	2011.8

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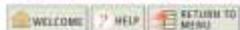


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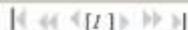
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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	MEASURING INTERDISCIPLINARY SCIENTIFIC RESEARCH (IDR); NATIONAL-SCALE RESEARCH PERFORMANCE ASSESSMENT; MAPPING SIX RESEARCH FIELDS; MEASURING CONTEXTUAL CITATION IMPACT; INSTITUTIONAL RESEARCH PERFORMANCE	29	1,035	35.69	2010.1

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	POLITICAL IDEOLOGY; POLITICAL PSYCHOLOGY; ELECTIVE AFFINITIES; STRUCTURE; FUNCTIONS	2	137	68.50	2009.0

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10	INTERNATIONAL REGIME COMPLEXITY; GLOBAL GOVERNANCE ARCHITECTURES; CLIMATE CHANGE; POLITICS; FRAGMENTATION	3	112	37.33	2010.0
12	SOCIAL IDENTITY; GROUP IDENTITY; SOCIAL PREFERENCES; POLITICAL ECONOMY; MODEL	2	95	47.50	2009.0

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1	SCHOOL BULLYING; CYBERBULLYING VICTIMIZATION; FACE-TO-FACE BULLYING; BULLYING EXPERIENCES; TRADITIONAL BULLYING	13	718	55.23	2010.0

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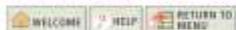
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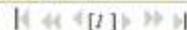
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1	ROCK ART DATING; U-SERIES DATING; PALEOLITHIC ART; WESTERN AUSTRALIA; CAVES	2	19	9.50	2012.0

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1	URBAN GREEN SPACE; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT; URBAN GREEN SPACES	10	709	70.90	2010.4

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CORE PAPERS IN URBAN GREEN SPACE; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT; URBAN GREEN SPACES

Sorted by: Citations [v] SORT AGAIN

1 - 10 (of 10) Page 1 of 1

1 Citations: 200 [Full](#)

Title: EFFECT OF EXPOSURE TO NATURAL ENVIRONMENT ON HEALTH INEQUALITIES: AN OBSERVATIONAL POPULATION STUDY

Authors: [MITCHELL R.](#) [POPHAM P.](#)

Source: [LANCET](#)  
372 (9650): 1655-1660 NOV 8 2008

Addresses: [Univ Glasgow, Glasgow G12 8RZ, Lanark, Scotland.](#)  
[Univ St Andrews, Sch Geog & Geosci, St Andrews, Fife, Scotland.](#)

Field: [CLINICAL MEDICINE](#)

2 Citations: 101 [Full](#)

Title: MORBIDITY IS RELATED TO A GREEN LIVING ENVIRONMENT

Authors: [MAAS T.](#) [VERHEIJ R.A.](#) [DE VRIES S.](#) [SPREKHMENBERG P.](#) [SCHALLEVIS F.G.](#) [GROENWEGEN P.P.](#)

Source: [J EPIDEMIOL COMMUNITY HEALTH](#)  
63 (12): 967-973 DEC 2009

Addresses: [Vrije Univ Amsterdam Med Ctr, EMGO Inst, NL-1081 BT Amsterdam, Netherlands.](#)  
[NIVEL Netherlands Inst Hlth Serv Res, Utrecht, Netherlands.](#)  
[Green World Res, ALTEERRA, Wageningen, Netherlands.](#)  
[Univ Utrecht, Dept Human Geog, Dept Sociol, Utrecht, Netherlands.](#)

Field: [SOCIAL SCIENCES, GENERAL](#)

3 Citations: 81 [Full](#)

Title: ASSOCIATIONS OF NEIGHBOURHOOD GREENNESS WITH PHYSICAL AND MENTAL HEALTH: DO WALKING, SOCIAL COHERENCE AND LOCAL SOCIAL INTERACTION EXPLAIN THE RELATIONSHIPS?

Authors: [SUGIYAMA T.](#) [LESLIE E.](#) [GILES-CORTI B.](#) [OWEN N.](#)

10 CLINICAL MEDICINE SOCIAL SCIENCES, GENERAL

# 如何追踪社会科学学科前沿——研究前沿

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### RESEARCH FRONTS RANKINGS FOR GREEN SPACE

Sorted by: Citations [SORT AGAIN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	GREEN AREAS AFFECT HEALTH, HEALTH BENEFITS, OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY, GREEN SPACE: GREEN LIVING ENVIRONMENT	13	862	66.31	2008.5

1 - 1 (of 1) Page 1 of 1

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# 绿色空间前沿——研究前沿

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CORE PAPERS IN GREEN AREAS AFFECT HEALTH; HEALTH BENEFITS; OBJECTIVELY MEASURED GREEN SPACE ACCESSIBILITY; GREEN SPACE; GREEN LIVING ENVIRONMENT

Sorted by: Citations + SORT AGAIN

1 - 13 (of 13) Page 1 of 1

1 Citations: 148

**Title:** EFFECT OF EXPOSURE TO NATURAL ENVIRONMENT ON HEALTH INEQUALITIES: AN OBSERVATIONAL POPULATION STUDY

**Authors:** MITCHELL R, POPHAM F

**Source:** [LANCET](#)  
372 (9650): 1655-1660 NOV 8 2008

**Addresses:** Univ Glasgow, Glasgow G12 8RZ, Lanark, Scotland.  
Univ St Andrews, Sch Geog & Geosci, St Andrews, Fife, Scotland.  
Univ Glasgow, 1 Lilybank Gardens, Glasgow G12 8RZ, Lanark, Scotland

**Field:** [CLINICAL MEDICINE](#)

2 Citations: 121

**Title:** CONTRIBUTION OF PUBLIC PARKS TO PHYSICAL ACTIVITY

**Authors:** COHEN DA; MCKENZIE TL; SEHGAL A; WILLIAMSON S; GOLINELLI D; LURIE N

**Source:** [AMER J PUBLIC HEALTH](#)  
97 (3): 509-514 MAR 2007

**Addresses:** RAND Corp, Santa Monica, CA 90407 USA.  
San Diego State Univ, Dept Exercise & Nutrit Sci, San Diego, CA 92182 USA.  
RAND Corp, 1776 Main St, Santa Monica, CA 90407 USA.

**Field:** [SOCIAL SCIENCES, GENERAL](#)

3 Citations: 87

**Title:** ENVIRONMENTAL CORRELATES OF PHYSICAL ACTIVITY: A REVIEW OF EVIDENCE ABOUT PARKS AND RECREATION

**Authors:** KACZYNSKI AT; HENDERSON KA

# 屋顶绿化 (GREEN ROOFS) — 研究前沿

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## RESEARCH FRONTS MENU

BY FIELD:	Select a topic from this field: (All Fields) <input type="button" value="GO"/>
OR	
BY NAME:	Enter up to five terms or phrases separated by the operators AND or OR to search. <i>Example: BREAST CANCER (more examples)</i> <input type="text" value="GREEN ROOFS"/> <input type="button" value="SEARCH"/>
<b>RESEARCH FRONTS EXAMPLES</b>	
<ul style="list-style-type: none"> <li>• Enter <b>CANCER</b> to search for citation data in the areas of PROSTATE-CANCER SCREENING or BREAST CANCER GENE MUTATIONS.</li> <li>• Enter <b>HEPATITIS*</b> to search for citation data in the areas of HEPATITIS-G VIRUS or HEPATITIS-A VIRUS.</li> <li>• Enter <b>HIV-1</b> to search for citation data in the areas of HIV-1 ANTIRETROVIRAL THERAPY or HIV-1 DISEASE PROGRESSION.</li> <li>• Enter <b>POLYMER*</b> to search for citation data in the areas of EDNA-POLYMERASE CHAIN REACTION, POLYMER LIGHT-EMITTING CELLS or POLYSTYRENE BLOCK POLYMERS.</li> </ul>	

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3 5

## RESEARCH FRONTS RANKINGS FOR GREEN ROOFS

Sorted by: Citations <input type="button" value="SORT AGAIN"/>					
1 - 1 (of 1)				Page 1 of 1	
		<<< [1] >>>			
View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 <input type="button" value="Full"/>	GREEN ROOFS; BUILDING ENERGY SAVINGS; BUILDING ENERGY SIMULATION PROGRAMS; BUILDING ENERGY PERFORMANCE; GREEN ROOF MODEL	5	334	66.80	2010.2
1 - 1 (of 1)				Page 1 of 1	
		<<< [1] >>>			

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# 屋顶绿化 (GREEN ROOFS) —— 研究前沿

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RESEARCH FRONTS RANKINGS FOR GREEN ROOFS

Sorted by: Citations [SORT ASIAN]

1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1 [PDF]	GREEN ROOF MODEL, GREEN ROOFS, GREEN ROOF, BUILDING ENERGY SIMULATION PROGRAMS, BUILDING ENERGY SAVINGS	6	322	53.67	2009.2

1 - 1 (of 1) Page 1 of 1

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# 屋顶绿化 (GREEN ROOFS) —— 研究前沿

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CORE PAPERS IN GREEN ROOF MODEL; GREEN ROOFS; GREEN ROOF; BUILDING ENERGY SIMULATION PROGRAMS; BUILDING ENERGY SAVINGS

Sorted by: Citations

1 - 6 (of 6)



Page 1 of 1

1 Citations: 85

**Title:** SURFACE HEAT BUDGET ON GREEN ROOF AND HIGH REFLECTION ROOF FOR MITIGATION OF URBAN HEAT ISLAND

**Authors:** TAKEBAYASHI H; MORIYAMA M

**Source:** [BLDG ENVIRON](#)  
42 (8): 2971-2979 AUG 2007

**Addresses:** Kobe Univ, Fac Engr, Dept Architecture & Civil Engr, Nada Ku, Kobe, Hyogo 6578501, Japan

**Field:** [ENGINEERING](#)

2 Citations: 72

**Title:** TEMPERATURE DECREASES IN AN URBAN CANYON DUE TO GREEN WALLS AND GREEN ROOFS IN DIVERSE CLIMATES

**Authors:** ALEXANDRIA E; JONES P

**Source:** [BLDG ENVIRON](#)  
43 (4): 480-493 APR 2008

**Addresses:** Cardiff Univ, Welsh Sch Architecture, Cardiff CF10 3NB, Wales.  
Cardiff Univ, Welsh Sch Architecture, King Edward 7 Ave, Cardiff CF10 3NB, Wales.

**Field:** [ENGINEERING](#)

3 Citations: 60

**Title:** A GREEN ROOF MODEL FOR BUILDING ENERGY SIMULATION PROGRAMS

**Authors:** SAILOR DJ

**Source:** [ENERG BLDG](#)  
40 (8): 1466-1478 2008

**Addresses:** Portland State Univ, Dept Mech & Mat Engr, Portland, OR 97207 USA



# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

"Roof\* Green\*" or "Green Roof\*" or  
"green\* wall\*" or "wall\* green\*"



# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

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“

- (“roof\* green\*” or “Green\* Roof\*” or “roof\* garden\*” or “rooftop garden\*” or “vegetative roof\*” or “livin\* roof\*” or “ecorooft\*” or “ecological roof\*” or “sod roof\*” or “roof\* plant\*” or “green\* wall\*” or “wall\* green\*” or “wall\* plant\*”)

# 课题选题实例：屋顶绿化（Roof Greening）、墙面绿化（green walls）

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检索

Web of Science™ 核心合集

我的工具

检索历史

标记结果列表

欢迎使用全新的 Web of Science! 查看快速入门教程。

基本检索

"roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "veg. \*

+ 添加另一字段

- 主题
- 标题
- 作者
- 作者识别号
- 团体作者
- 编者
- 出版物名称
- 出版年

检索

单击此处获取有关改善检索的建议。

时间跨度

所有年份

从 1900 至 2014

更多设置

Web of Science 核心合集: 引文索引

- Science Citation Index Expanded (SCI-EXPANDED) --1900年至今
- Social Sciences Citation Index (SSCI) --1900年至今
- Arts & Humanities Citation Index (A&HCI) --1975年至今
- Conference Proceedings Citation Index - Science (CPCI-S) --1990年至今
- Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH) --1990年至今
- Book Citation Index- Science (BKCI-S) --2005年至今
- Book Citation Index- Social Sciences & Humanities (BKCI-SSH) --2005年至今

Web of Science 核心合集: 化学索引

"roof\* green\*" or "Green\* Roof\*" or  
"roof\* garden\*" or "rooftop garden\*" or  
or "vegetative roof\*" or "livin\* roof\*" or  
"ecoroo\* roof\*" or "ecological roof\*" or  
"sod roof\*" or "roof\* plant\*" or  
"green\* wall\*" or "wall\* green\*" or  
"wall\* plant\*"

# 利用SCI、SSCI、A&HCI进行选题分析

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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results for the query "roof green". The interface includes a search bar at the top, a navigation menu, and a list of search results. A red box highlights the left sidebar, and a blue box highlights a large empty area on the right.

**Web of Science™** | InCites™ | Journal Citation Reports® | Essential Science Indicators™ | EndNote™

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检索

我的工具 | 检索历史 | 标记结果列表

检索结果: 1,025 (来自 Web of Science 核心合集)

您的检索: 主题 ("roof green" or "Green Roof" or "roof garden" or "rooftop garden" or "vegetative roof" or "living roof" or "ecorooftop" or "ecological roof" or "sod roof" or "roof plant" or "green wall" or "wall green" or "wall plant") ... 更多内容

创建提醒服务

精炼检索结果

在以下结果集内检索

Web of Science 类别

- ENVIRONMENTAL SCIENCES (214)
- ENGINEERING ENVIRONMENTAL (177)
- ENGINEERING CIVIL (152)
- CONSTRUCTION BUILDING TECHNOLOGY (134)
- ECOLOGY (124)

更多选项/分类

文献类型

- ARTICLE (853)
- REVIEW (51)
- LETTER (26)
- BOOK REVIEW (25)
- MEETING ABSTRACT (24)

排序方式: 出新日期 (降序)

第 1 页, 共 103 页

选择页面 | 保存至 EndNote online | 添加到标记结果列表

分析检索结果 | 创建引文报告

- The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps  
作者: Lin, Brenda B.; Philpott, Stacy M.; Jha, Shalene  
BASIC AND APPLIED ECOLOGY 卷: 16 期: 3 页: 189-201 出版年: MAY 2015  
被引频次: 0 (来自 Web of Science 的核心合集)
- Accumulated snow layer influence on the heat transfer process through green roof assemblies  
作者: Zhao, Mingjie; Seberic, Jelena; Berghage, Robert D.; 等  
BUILDING AND ENVIRONMENT 卷: 87 页: 82-91  
被引频次: 0 (来自 Web of Science 的核心合集)
- Thermal performance characteristics of unshaded  
作者: Ghaffarianhoseini, Amirhoseini; Berardi, Umberto;  
BUILDING AND ENVIRONMENT 卷: 87 页: 154-168  
被引频次: 0 (来自 Web of Science 的核心合集)
- Nutrient removal by different plants in wetland roof  
作者: Phan Thi Hai Van; Nguyen Thanh Tin; Vo Thi Diep  
DESALINATION AND WATER TREATMENT 卷: 54  
被引频次: 0 (来自 Web of Science 的核心合集)
- The impact of greening systems on building energy  
作者: Raji, Babak; Tenpirlik, Martin J.; van den Dobbelaer, Jeroen  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 54  
被引频次: 0 (来自 Web of Science 的核心合集)
- Using natural means to reduce surface transport noise  
作者: Van Renterghem, Timothy; Forssen, Jens; Attenborough, Kenneth  
APPLIED ACOUSTICS 卷: 92 页: 86-101 出版年: MAY 2016  
被引频次: 0 (来自 Web of Science 的核心合集)

# 强大的分析功能 – 能够处理100万条记录

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# Web of Science 的检索结果分析功能

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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results page for the query "roof green". The search results are sorted by "出版日期 (降序)" (Publication Date, Descending). The results list includes:

- 1. The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps. Authors: Lin, Branda B.; Philpott, Stacy M.; Jha, Shalene. *BASIC AND APPLIED ECOLOGY* 卷 16 期 3 页 189-201 出版年: MAY 2015. Cited 0 times.
- 2. Accumulated snow layer influence on the heat transfer process through green roof assemblies. Authors: Zhao, Mingjie; Szebric, Jelena; Berghage, Robert D., 等. *BUILDING AND ENVIRONMENT* 卷 87 页 82-91 出版年: MAY 2015. Cited 0 times.
- 3. Thermal performance characteristics of unshaded courtyards in hot and humid climates. Authors: Ghaffarianhoseini, Amirhoseini, Berardi, Umberto; Ghaffarianhoseini, Ali. *BUILDING AND ENVIRONMENT* 卷 87 页 154-168 出版年: MAY 2015. Cited 0 times.
- 4. Nutrient removal by different plants in wetland roof systems treating domestic wastewater. Authors: Phan Thi Hai Van, Nguyen Thanh Tin, Vo Thi Dieu Hien, 等. *DESALINATION AND WATER TREATMENT* 卷 54 期 4-5 页 1344-1352 出版年: MAY 1 2015. Cited 0 times.
- 5. The impact of greening systems on building energy performance: A literature review. Authors: Raji, Babak, Tempieni, Martin J.; van den Dobbelsteen, Andy. *RENEWABLE & SUSTAINABLE ENERGY REVIEWS* 卷 45 页 610-623 出版年: MAY 2015. Cited 0 times.
- 6. Using natural means to reduce surface transport noise during propagation outdoors. Authors: Van Renterghem, Timothy, Forssen, Jens, Attenborough, Keith, 等. *APPLIED ACOUSTICS* 卷 92 页 86-101 出版年: MAY 2015. Cited 0 times.

The interface includes a search bar, a sidebar with filters for "Web of Science 类别" (Environmental Sciences, Engineering, etc.) and "文献类型" (Article, Review, etc.), and a main results area with options to "分析检索结果" (Analyze search results) and "创建引文报告" (Create citation report).

# 利用SCI的分析工具了解课题的发展趋势：屋顶绿化

The screenshot shows the Web of Science search results for the query 'Green roof'. The page displays 17 search results, with the first six visible. The search results are sorted by '出版日期 (降序)'. The page number is 17, and there are 2 pages in total. The search results include the following information for each entry:

- 1. Urban green space, public health, and environmental justice. The challenge of making cities 'just green enough'. Authors: Welch, Jennifer R., Byrne, Jason, Newell, Joshua P. *LANDSCAPE AND URBAN PLANNING* 卷: 125 特刊: 51 页: 234-244 出版年: MAY 2014. Cited 14 times.
- 2. Cooling the cities - A review of reflective and green roof mitigation technologies to fight heat island and improve comfort in urban environments. Author: Santamouris, M. *SOLAR ENERGY* 卷: 103 页: 662-703 出版年: MAY 2014. Cited 26 times.
- 3. Economic comparison of white, green, and black flat roofs in the United States. Authors: Sproul, Julian, Wan, Man Pun, Mandel, Benjamin H., 等. *ENERGY AND BUILDINGS* 卷: 71 页: 20-27 出版年: MAR 2014. Cited 7 times.
- 4. Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex. Authors: Hong, Tsehoon, Koo, Cheongwan, Lee, Sungug. *APPLIED ENERGY* 卷: 114 特刊: 51 页: 663-675 出版年: FEB 2014. Cited 6 times.
- 5. Green roofs in European climates. Are effective solutions for the energy savings in air-conditioning? Authors: Ascione, Fabrizio, Bianco, Nicola, de' Rossi, Filippo, 等. *APPLIED ENERGY* 卷: 104 页: 846-859 出版年: APR 2013. Cited 22 times.
- 6. A comprehensive study of the impact of green roofs on building energy performance. Cited 46 times.

The page also includes a sidebar with filters for 'Web of Science 类别' and '文献类型', and a search bar at the top.

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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## 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

根据此字段排列记录:	设置显示选项:	排序方式:
<ul style="list-style-type: none"><li>作者</li><li>丛书名称</li><li>会议名称</li><li>国家/地区</li></ul>	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录。(并查看其他记录)

<input type="checkbox"/> 查看记录	字段: 作者	记录数	占 812 的 %	柱状图	将分析数据保存到文件
<input type="checkbox"/>	JIM CY	21	2.586 %		<input checked="" type="radio"/> 表格中显示的数据行
<input type="checkbox"/>	ANONYMOUS	20	2.463 %		<input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	ROWE DB	17	2.094 %		
<input type="checkbox"/>	NEKTARIOS PA	9	1.108 %		
<input type="checkbox"/>	DUNNETT N	7	0.862 %		
<input type="checkbox"/>	GETTER KL	7	0.862 %		
<input type="checkbox"/>	KITTAS C	7	0.862 %		
<input type="checkbox"/>	LANZA LG	7	0.862 %		
<input type="checkbox"/>	PALLA A	7	0.862 %		
<input type="checkbox"/>	SAILOR DJ	7	0.862 %		
<input type="checkbox"/>	BOTTELDOOREN D	6	0.739 %		
<input type="checkbox"/>	DVORAK B	6	0.739 %		
<input type="checkbox"/>	GNECCO I	6	0.739 %		
<input type="checkbox"/>	NAGASE A	6	0.739 %		

# 利用SCI的分析工具了解课题的发展趋势·屋顶绿化

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## 结果分析

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812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

根据此字段排列记录: 设置显示选项: 排序方式:

机构 显示前 50 个分析结果. 记录数

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录，也可以排除这些记录 (并查看其他记录)。

<input type="checkbox"/> 查看记录	字段: 机构	记录数	占 812 的 %	柱状图	将分析数据保存到文件
<input type="checkbox"/>	UNIV HONG KONG	22	2.709 %		<input checked="" type="radio"/> 表格中显示的数据行
<input type="checkbox"/>	MICHIGAN STATE UNIV	20	2.463 %		<input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	UNIV SHEFFIELD	18	2.217 %		
<input type="checkbox"/>	NATL UNIV SINGAPORE	14	1.724 %		
<input type="checkbox"/>	AGR UNIV ATHENS	13	1.601 %		
<input type="checkbox"/>	TEXAS A M UNIV	11	1.355 %		
<input type="checkbox"/>	PENN STATE UNIV	10	1.232 %		
<input type="checkbox"/>	UNIV ALMERIA	10	1.232 %		
<input type="checkbox"/>	UNIV FLORIDA	10	1.232 %		
<input type="checkbox"/>	UNIV GEORGIA	10	1.232 %		
<input type="checkbox"/>	UNIV GHENT	10	1.232 %		
<input type="checkbox"/>	LUND UNIV	9	1.108 %		
<input type="checkbox"/>	OHIO STATE UNIV	8	0.985 %		
<input type="checkbox"/>	PORTLAND STATE UNIV	8	0.985 %		

了解竞争对手

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



## 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative green\*" or "wall\* plant\*")

根据此字段排列记录: 沿器显示选项: 排序方式:

国家/地区  
文献类型  
编者  
基金资助机构

显示前 50 个分析结果。  
最少记录数 (阈值): 2

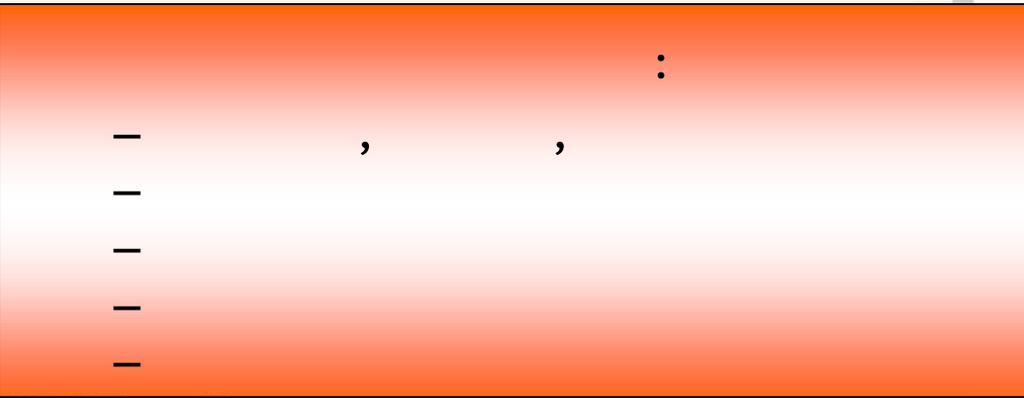
记录数  
 已选字段

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并)

<input type="checkbox"/>	查看记录	排除记录	字段: 国家/地区	记录数	占 812 的 %	柱状图
<input type="checkbox"/>			USA	239	29.433 %	
<input type="checkbox"/>			PEOPLES R CHINA	65	8.005 %	
<input type="checkbox"/>			ENGLAND	62	7.635 %	
<input type="checkbox"/>			CANADA	46	5.665 %	
<input type="checkbox"/>			FRANCE	33	4.064 %	
<input type="checkbox"/>			ITALY	33	4.064 %	
<input type="checkbox"/>			JAPAN	32	3.941 %	
<input type="checkbox"/>			SPAIN	32	3.941 %	
<input type="checkbox"/>			GREECE	31	3.818 %	
<input type="checkbox"/>			GERMANY	29	3.571 %	
<input type="checkbox"/>			BELGIUM	19	2.340 %	
<input type="checkbox"/>			NETHERLANDS	17	2.094 %	
<input type="checkbox"/>			SOUTH KOREA	16	1.970 %	
<input type="checkbox"/>			SINGAPORE	15	1.847 %	

表格中显示的数据行  
 所有数据行 (最多 200,000)



# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results page for the query "green roofs". The page is from Thomson Reuters. The search results are sorted by "出版日期 (降序)" (Publication Date, Descending) and show 65 results. The first result is "State-of-the-art analysis of the environmental benefits of green roofs" by Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali, published in APPLIED ENERGY, volume 115, pages 411-428, in February 2014. The page also shows a sidebar with "Web of Science 类别" (Web of Science Categories) and a search bar for "在如下结果集内检索..." (Search within the following result set...).

WEB OF SCIENCE™ THOMSON REUTERS™

返回检索

我的工具 检索历史 标记结果列表

排序方式: 出版日期 (降序) 65 第 1 页, 共 7 页

检索结果: 65 (来自 Web of Science 核心合集)

您的检索:  
主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" ...更多内容)

创建跟踪服务

精炼检索结果

选择页面 保存至 EndNote Online 添加到标记结果列表

分析检索结果 创建引文报告

被引频次: 0 (来自 Web of Science 的核心合集)

1. State-of-the-art analysis of the environmental benefits of green roofs  
作者: Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014  
全文 查看摘要

在如下结果集内检索...

Web of Science 类别

- ENVIRONMENTAL SCIENCES (16)
- CONSTRUCTION BUILDING
- ENGINEERING CIVIL (13)
- ENGINEERING ENVIRONMENTAL (13)
- ECOLOGY (11)

3. Heat-sink effect and indoor warming imposed by tropical extensive green roof  
作者: Jim, C. Y.  
ECOLOGICAL ENGINEERING 卷: 103 期: 4 页: 413-423 出版年: JAN 2014  
全文 查看摘要

被引频次: 0 (来自 Web of Science 的核心合集)

4. Sustainable urban greening strategies for compact cities in developing and developed economies  
作者: Jim, C. Y.  
URBAN ECOSYSTEMS 卷: 16 期: 4 特刊: SI 页: 741-761 出版年: DEC 2013  
全文 查看摘要

被引频次: 1 (来自 Web of Science 的核心合集)

5. The effects of low impact development on urban flooding under different rainfall characteristics  
作者: Qin, Hua-peng, Li, Zhuo-xi, Fu, Guangtao  
JOURNAL OF ENVIRONMENTAL MANAGEMENT 卷: 129 页: 577-586 出版年: NOV 15 2013  
全文 查看摘要

被引频次: 0 (来自 Web of Science 的核心合集)

类型  
ARTICLE (63)  
REVIEW (2)

文献

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



## 结果分析

<<返回上一页

65 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "lavin\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

分析: 国家/地区: (PEOPLES R CHINA)

根据此字段排列记录:	设置显示选项:	排序方式:
<ul style="list-style-type: none"><li>机构</li><li>机构扩展</li><li>出版年</li><li>研究方向</li></ul>	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="2"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录(并查看其他记录)。

查看记录	排除记录	字段: 机构	记录数	占 65 的 %	柱状图	将分析数据保存到文件
<input type="checkbox"/>	<input type="checkbox"/>	UNIV HONG KONG	22	33.846 %		<input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	<input type="checkbox"/>	CHINESE ACAD SCI	7	10.769 %		
<input type="checkbox"/>	<input type="checkbox"/>	BEIJING NORMAL UNIV	5	7.692 %		
<input type="checkbox"/>	<input type="checkbox"/>	HONG KONG POLYTECH UNIV	5	7.692 %		
<input type="checkbox"/>	<input type="checkbox"/>	CITY UNIV HONG KONG	4	6.154 %		
<input type="checkbox"/>	<input type="checkbox"/>	TSINGHUA UNIV	4	6.154 %		
<input type="checkbox"/>	<input type="checkbox"/>	CHONGQING UNIV	3	4.615 %		
<input type="checkbox"/>	<input type="checkbox"/>	SUN YAT SFN UNIV	3	4.615 %		
<input type="checkbox"/>	<input type="checkbox"/>	CHINESE UNIV HONG KONG	2	3.077 %		
<input type="checkbox"/>	<input type="checkbox"/>	PEKING UNIV	2	3.077 %		
<input type="checkbox"/>	<input type="checkbox"/>	S CHINA UNIV TECHNOL	2	3.077 %		
<input type="checkbox"/>	<input type="checkbox"/>	TONGJI UNIV	2	3.077 %		

数据保存到文件

查看记录

将分析数

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote®

Yuehua ▼ 帮助 简体中文 ▼

WEB OF SCIENCE™



## 结果分析

[<<返回上一页](#)

65 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")  
分析: 国家/地区: (PEOPLES R CHINA)

根据此字段排列记录:	设置显示选项:	排序方式:
<input type="text" value="国家/地区"/> 文献类型 编者 基金资助机构	显示前 <input type="text" value="50"/> 个分析结果。 最少记录数 (阈值): <input type="text" value="1"/>	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录 (并查看其他记录)。

<input type="checkbox"/> 查看记录 <input checked="" type="checkbox"/> 排除记录	字段: 国家/地区	记录数	占 65 的 %	柱状图	将分析数据保存到文件 <input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	PEOPLES R CHINA	65	100.000 %	<div style="width: 100%;"></div>	
<input type="checkbox"/>	USA	8	12.308 %	<div style="width: 12.308%;"></div>	
<input type="checkbox"/>	AUSTRALIA	2	3.077 %	<div style="width: 3.077%;"></div>	
<input type="checkbox"/>	CANADA	2	3.077 %	<div style="width: 3.077%;"></div>	
<input type="checkbox"/>	ENGLAND	1	1.538 %	<div style="width: 1.538%;"></div>	
<input type="checkbox"/>	GERMANY	1	1.538 %	<div style="width: 1.538%;"></div>	
<input type="checkbox"/>	JAPAN	1	1.538 %	<div style="width: 1.538%;"></div>	
<input type="checkbox"/>	MALAYSIA	1	1.538 %	<div style="width: 1.538%;"></div>	
<input type="checkbox"/>	SINGAPORE	1	1.538 %	<div style="width: 1.538%;"></div>	
<input type="checkbox"/>	WALES	1	1.538 %	<div style="width: 1.538%;"></div>	

# 利用SCI的分析工具了解课题的发展趋势：屋顶绿化

The screenshot shows the 'Result Analysis' (结果分析) page in Web of Science. The main title is 'WEB OF SCIENCE™' and the Thomson Reuters logo is in the top right. The page displays the following information:

- 结果分析** (Result Analysis)
- <<返回上一页** (Return to previous page)
- 812个记录: 主题: /roof green** (812 records: Topic: /roof green)
- 国家/地区分布** (Geographical distribution): A bar chart showing the distribution of records by country/region.
- 按年份的引用情况** (Citation trends by year): A line graph showing the number of citations over time.
- 按年份的文献数** (Number of documents by year): A line graph showing the number of documents published over time.
- 按年份的发表量** (Publication volume by year): A line graph showing the volume of publications over time.
- 按年份的发文量** (Number of articles by year): A line graph showing the number of articles published over time.
- 按年份的发文量** (Number of articles by year): A line graph showing the number of articles published over time.
- 按年份的发文量** (Number of articles by year): A line graph showing the number of articles published over time.

The '按年份的发文量' (Number of articles by year) section includes a table with the following data:

年份	发文量	占比
2011	1	0.12%
2012	2	0.25%
2013	3	0.37%
2014	4	0.49%
2015	5	0.62%
2016	6	0.74%
2017	7	0.86%
2018	8	0.99%
2019	9	1.11%
2020	10	1.23%
2021	11	1.36%
2022	12	1.48%

An arrow points to the '按年份的发文量' (Number of articles by year) section, highlighting the data table.

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot displays the Web of Science search results page for the query: 主题=("Roof\* Green" or "Green Roof" or "green\* wall" or "wall\* green"). The results are sorted by publication date in descending order. A sidebar on the left provides filters for 'Web of Science 类别' (Environmental Sciences, Environmental Studies, Ecology, Energy Fuels, Urban Studies) and '文献类型' (Review, 22). The main content area shows three search results, each with a title, author, source, and citation frequency. The first result is 'Performance evaluation and development strategies for green roofs in Taiwan: A review' by Chen, Chi-Feng. The second is 'The role of green roof technology in urban agriculture' by Whittinghill, Leigh J.; Rowe, D. Bradley. The third is 'Assessment of retrofitting measures and solar systems' potential in urban areas using Geographical Information System' by Theodoridou, Ifigeneia; Karteris, Marinos; Mallinis, Georgios; et al.

我已保存的检索 | 注销 | 帮助 | 已登录 | 标记结果列表 (0) | 我的 EndNote Web | 我的 ResearcherID | 我的引文跟踪 | 我的期刊列表

所有数据库 | 选择一个数据库 | Web of Science | 其他资源

检索 | 作者检索 | 被引参考文献检索 | 化学结构检索 | 高级检索 | 检索历史

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<< 返回上一页

检索结果 主题=("Roof\* Green" or "Green Roof" or "green\* wall" or "wall\* green")  
精炼依据: 文献类型=(REVIEW)  
时间跨度-所有年份 数据库=SCI-EXPANDED, SSCI, A&HCI  
创建跟踪 RSS

排序方式: 出版日期 (降序)

分析检索结果

检索结果: 22 第 1 页, 共 3 页 转至

结果内检索

Web of Science 类别 精炼

- ENVIRONMENTAL SCIENCES (5)
- ENVIRONMENTAL STUDIES (5)
- ECOLOGY (4)
- ENERGY FUELS (4)
- URBAN STUDIES (3)

更多选项分类...

文献类型 精炼

- REVIEW (22)

研究方向

- 作者
- 团体作者
- 编者

1. 标题: Performance evaluation and development strategies for green roofs in Taiwan: A review  
作者: Chen, Chi-Feng  
来源出版物: ECOLOGICAL ENGINEERING 卷: 52 页: 51-58 DOI: 10.1016/j.ecoleng.2012.12.083 出版年: MAR 2013  
被引频次: 0 (来自 Web of Science)  
S·F·X 全文 [查看摘要]

2. 标题: The role of green roof technology in urban agriculture  
作者: Whittinghill, Leigh J.; Rowe, D. Bradley  
来源出版物: RENEWABLE AGRICULTURE AND FOOD SYSTEMS 卷: 27 期: 4 页: 314-322 DOI: 10.1017/S174217051100038X  
被引频次: 1 (来自 Web of Science)  
S·F·X 全文 [查看摘要]

3. 标题: Assessment of retrofitting measures and solar systems' potential in urban areas using Geographical Information System' Mediterranean city  
作者: Theodoridou, Ifigeneia; Karteris, Marinos; Mallinis, Georgios; 等  
来源出版物: RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 16 期: 8 页: 6239-6261 DOI: 10.1016/j.rser.2012.03.075 出  
被引频次: 0 (来自 Web of Science)  
S·F·X 全文 [查看摘要]

版年: DEC 2012

版年: OCT 2012

式: 启用 100% Internet | 保护模

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The image displays a Web of Science search interface. On the left, the search results are summarized as 39 items. The search criteria include 'roof green' or 'Green Roof' or 'roof garden'. The search is refined by 'Web of Science 类别' (Energy Fuels, Environmental Sciences, Biotechnology Applied Microbiology, Ecology, Environmental Studies) and '文献类型' (Review). The search results list several articles, with the first one being 'Quantifying the thermal performance of green façades: A critical review' by Hunter, Anne M., and Williams, John P., published in Ecological Engineering. This article is highlighted with a red box and a red arrow pointing to its detailed view on the right. The detailed view shows the article's title, authors, journal information, abstract, and highlights. The abstract discusses the benefits of green façades in reducing building temperatures and energy consumption. The search results also show other related articles, such as 'Transgenic expression of...', 'Using cool pavements as developments', 'The city and urban heat islands: A review of strategies to mitigate adverse effects', 'A review of energy aspects of green roofs', 'Performance evaluation and development strategies for green roofs in Taiwan: A review', and 'Effects of Evapotranspiration on Mitigation of Urban Temperature by Vegetation and Urban Agriculture'.

**WEB OF SCIENCE™**

返回检索

检索结果: 39  
(来自 Web of Science 核心合集)

您的检索:  
主题: ("roof green" or "Green Roof" or "roof garden") ...更多内容

新增跟踪服务

精炼检索结果

添加下列检索条件检索

Web of Science 类别

- ENERGY FUELS (8)
- ENVIRONMENTAL SCIENCES (7)
- BIOTECHNOLOGY APPLIED MICROBIOLOGY (5)
- ECOLOGY (5)
- ENVIRONMENTAL STUDIES (5)

更多选择/分类...

文献类型

- REVIEW (38)

研究方向

作者

团体作者

编者

来源出版物名称

排序方式: 出版日期(倒序)

1. **Quantifying the thermal performance of green façades: A critical review**  
作者: Hunter, Anne M., Williams, John P.  
ECOLOGICAL ENGINEERING  
全文 查看摘要

2. **Transgenic expression of...**  
作者: Cletus, Jean, Balasubramanian, V.  
BIOTECHNOLOGY LETTERS  
全文 查看摘要

3. **Using cool pavements as developments**  
作者: Santamouris, M.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 26 页: 224-240 出版年: OCT 2013  
全文 查看摘要

4. **The city and urban heat islands: A review of strategies to mitigate adverse effects**  
作者: Gago, E. J., Roldan, J., Pacheco-Torres, R., 等.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 25 页: 749-758 出版年: SEP 2013  
全文 查看摘要

5. **A review of energy aspects of green roofs**  
作者: Saadatian, Omidroza; Sopian, K.; Salleh, E., 等.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 23 页: 155-168 出版年: JUL 2013  
全文 查看摘要

6. **Performance evaluation and development strategies for green roofs in Taiwan: A review**  
作者: Chen, Chi-Fang  
ECOLOGICAL ENGINEERING 卷: 52 页: 51-58 出版年: MAR 2013  
全文 查看摘要

7. **Effects of Evapotranspiration on Mitigation of Urban Temperature by Vegetation and Urban Agriculture**

ScienceDirect

Ecological Engineering  
Volume 52, February 2014, Pages 93-110

Quantifying the thermal performance of green façades: A critical review

View

Authors: Anne M. Hunter<sup>a</sup>, John P. Williams<sup>a</sup>, John P. Haynes<sup>a</sup>, La Haye<sup>a</sup>, Dominguez Herd<sup>a</sup>, Stephen J. Livesey<sup>a</sup>

Highlights

- We investigate the scientific literature on the thermal performance of green façades.
- Studies exist prior to research design problems.
- Five studies investigated the influence of plant morphology and physiology on facade performance.
- We propose an approach to standardizing the measurement of green facade parameters.
- Inputs from plant biology, ecology, horticulture and soil science are needed to progress this emerging field.

Abstract

Green façades are climbing plants grown either directly against or in support structures affixed to exterior building walls. Like other forms of green infrastructure, they are increasingly being considered as a design feature to cool interior building temperatures, reduce building energy consumption and facilitate urban adaptation to a warming climate. To develop a better practice framework for green facade thermal performance we reviewed the scientific literature – a literature currently dominated by the disciplines of architecture and engineering, and lacking inter-disciplinary input from plant biology, ecology, horticulture and soil science. We found that many of the studies were prone to research design problems: the small number of experimental studies, limited replication and reported insufficient information about the microclimate parameters measured, while the assumptions of modelling studies were not always articulated or justified. Five studies considered the influence of climbing plant characteristics, and fewer still investigated the impact of green facade design components (support structure, growing media, plant container and irrigation system) on green facade thermal performance. As a framework for future green facade research, we propose that standardized methods be adopted, and to this end, set out the minimum-acceptable data required to enable comparative assessment of green facade performance. Furthermore, we stress the need for research on the interaction between climbing plant parameters and building energy systems, as well as on the influence of green facade design elements on thermal performance. Without this shift in approach, unrealistic expectations of green facade performance and their climate change adaptation benefits will persist.

Table 1  
Table 2  
Table 3  
Table 4

Urban Environmental Pollution  
12 – 13 June 2014  
Toronto, Canada  
CLIMATE CHANGE AND URBAN ENVIRONMENT

引用频次: 0  
(来自 Web of Science 核心合集)

引用频次: 1  
(来自 Web of Science 核心合集)

引用频次: 3  
(来自 Web of Science 核心合集)

引用频次: 0  
(来自 Web of Science 核心合集)

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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## 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")  
 分析: 国家/地区: (PEOPLES R CHINA)

根据此字段排列记录:  设置显示选项: 排序方式:

显示前 50 个分析结果。

分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录，也可以排除这些记录（并查看其他记录）。

	记录数	占 812 的 %	柱状图
CHINA	8	0.985 %	
UNION	8	0.985 %	
UNIVERSITY	6	0.739 %	
FOUNDATION	5	0.616 %	
FOUNDATION	5	0.616 %	
NATIONAL MI	4	0.493 %	
NATIONAL RESEARCH	4	0.493 %	
RESEARCH CENTER	3	0.369 %	
RESEARCH CENTER	3	0.369 %	
USA	3	0.369 %	
UNION	3	0.369 %	
UNIVERSITY	3	0.369 %	
NSF	3	0.369 %	

将分析数据保存到文件

表格中显示的数据行

所有数据行 (最多 200,000)

查看记录	排除记录	字段: 基金资助机构
<input type="checkbox"/>	<input type="checkbox"/>	NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA
<input type="checkbox"/>	<input type="checkbox"/>	STANLEY HO ALUMNI CHALLENGE FUND
<input type="checkbox"/>	<input type="checkbox"/>	EUROPEAN COMMUNITY
<input type="checkbox"/>	<input type="checkbox"/>	MIDLAND CHARITABLE FOUNDATION
<input type="checkbox"/>	<input type="checkbox"/>	NATIONAL SCIENCE FOUNDATION
<input type="checkbox"/>	<input type="checkbox"/>	FORD MOTOR COMPANY DEARBORN MI
<input type="checkbox"/>	<input type="checkbox"/>	NATIONAL RESEARCH FOUNDATION OF KOREA
<input type="checkbox"/>	<input type="checkbox"/>	AUCKLAND REGIONAL COUNCIL
<input type="checkbox"/>	<input type="checkbox"/>	CALIFORNIA
<input type="checkbox"/>	<input type="checkbox"/>	CENTER FOR ENVIRONMENTAL INNOVATION IN ROOFING WASHINGTON DC
<input type="checkbox"/>	<input type="checkbox"/>	DR STANLEY HO ALUMNI CHALLENGE FUND
<input type="checkbox"/>	<input type="checkbox"/>	LANDSCAPE ONTARIO
<input type="checkbox"/>	<input type="checkbox"/>	NATIONAL SCIENCE FOUNDATION
<input type="checkbox"/>	<input type="checkbox"/>	NATIONAL SCIENCE FOUNDATION OF CHINA

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 13

The screenshot displays the Web of Science search results page for the query: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" ...更多内容). The interface includes a navigation bar with "WEB OF SCIENCE™" and "THOMSON REUTERS™" logos, and a search bar with "返回检索" (Return Search). The main content area shows 13 search results, sorted by "出版日期 (降序)" (Publication Date (Descending)). A "精炼检索结果" (Refine Search Results) sidebar is open, showing "Web of Science 类别" (Web of Science Categories) with options like ENGINEERING CIVIL (3), ENVIRONMENTAL SCIENCES (3), CONSTRUCTION BUILDING TECHNOLOGY (2), ECOLOGY (2), and ENGINEERING ENVIRONMENTAL (2). The "文献类型" (Document Type) section shows "ARTICLE (13)". The search results list includes:

- 2. **Populus euphratica XTH overexpression enhances salinity tolerance by the development of succulence in transgenic tobacco plants**  
作者: Han, Yansha; Wang, Wei; Sun, Jian; 等.  
JOURNAL OF EXPERIMENTAL BOTANY 卷: 64 期: 14 页: 4225-4238 出版年: NOV 2013
- 3. **Assessing the stability of annual temperatures for different Urban functional Zones**  
作者: Sun, Ranhao; Lu, Yihe; Chen, Liding; 等.  
BUILDING AND ENVIRONMENT 卷: 65 页: 90-98 出版年: JUL 2013
- 4. **Heavy metals in plants and sukkers after heavy metal level reduction by green roofs**  
作者: Zhang, Jiajun; Liu, Shaomeng; Li, Shao; 等.  
PLANT AND SOIL 卷: 256 期: 3 页: 253-264 出版年: JUL 2012
- 5. **Semiregular Solid Texturing from 2D Image Exemplars**  
作者: Du, Song-Pei; Hu, Shi-Min; Martin, Ralph R.  
IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS 卷: 19 期: 3 页: 460-469 出版年: MAR 2013

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

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## Heavy metals in plants and substrate from simulated extensive green roofs

作者: Ye, JJ (Ye, Jianjun)<sup>1,2\*</sup>; Liu, CY (Liu, Chuanyin)<sup>2,1</sup>; Zhao, ZC (Zhao, Zichao)<sup>4,1</sup>; Li, YQ (Li, Yuqiang)<sup>2,1</sup>; Yu, BX (Yu, Binxiao)<sup>1,1</sup>

ECOLOGICAL ENGINEERING  
卷: 55 页: 29-34  
DOI: 10.1016/j.ecoleng.2013.02.012  
出版日期: JUN 2013  
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### 摘要

Recycled brick could be used in green roofs but may pose environmental risk due to its heavy metal contents. In this study, concentrations of eight heavy metals (Cr, Ni, Cu, Zn, As, Cd, Pb, and Hg) in three edible and medicinal plants (Bedum linearis Thunb (BL), Bedum sarmentosum Bunge (BS) and Portulaca oleracea L (PO)), and in recycled brick substrate from simulated extensive green roofs, were investigated in Spring and Autumn. The results showed that most heavy metal concentrations in plants (aboveground parts) in April were significantly lower than those in October, and significantly increased year on year. None of the three species showed superiority or inferiority in all heavy metal concentrations at all the four samplings. Heavy metal concentrations in aboveground parts were all significantly lower than in roots, and significantly lower than in substrate except for Zn. The three species could not be used as food a year after they were sown; only PO collected in April can be harvested as medicine, mainly due to Pb concentrations exceeding the standard. Cd concentration in substrate increased and Ni decreased during the experiment, while the others kept unchanged. The substrate was polluted according to the standard due to its high Cd concentration which mainly came from recycled brick. (C) 2013 Elsevier B.V. All rights reserved.

### 关键词

作者关键词: Heavy metals; Recycled brick; Substrate; Extensive green roofs; Edible and medicinal plants  
KeyWords Plus: BEDUM-ALFREDII; SOILS; CHINA

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作者: Lin, Bau-Show; Yu, Chin-Chung; Su, Ai-Tsen; 等.  
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作者: Blank, Lior; Vasil, Amiel; Levy, Shay; 等.  
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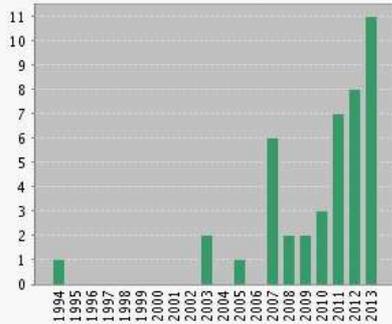
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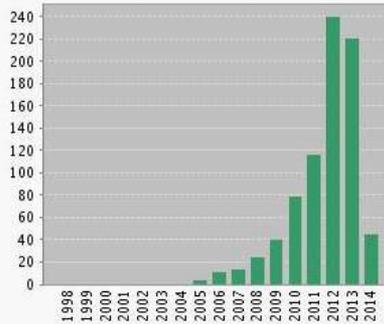
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2. **Surface heat budget on green roof and high reflection roof for mitigation of urban heat island**

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## Cost-benefit analysis for green facades and living wall systems

作者: Perini, K (Perini, Katia)<sup>[1]</sup>; Rosasco, P (Rosasco, Paolo)<sup>[1]</sup>

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Vertical greening systems can be used as a mean to improve the environmental conditions of dense urban areas. Several researches have proved the environmental benefits of green facades. It is still not clear if vertical greening systems are environmentally sustainable, and how they can be designed. This paper presents a cost-benefit analysis and a life cycle assessment of green facades and living wall systems, comparing them with conventional building envelopes. The study considers the effects of the different systems on energy consumption, air quality, noise reduction, and the impact of each system on the environment. The results show that green facades and living wall systems can be used as a mean to improve the environmental conditions of dense urban areas. The study also shows that green facades and living wall systems can be used as a mean to improve the environmental conditions of dense urban areas. The study also shows that green facades and living wall systems can be used as a mean to improve the environmental conditions of dense urban areas.

关键词  
Green facades; Living wall systems; Cost-benefit analysis; Life cycle assessment; Sustainability

作者信息  
Perini, K (Perini, Katia)<sup>[1]</sup>; Rosasco, P (Rosasco, Paolo)<sup>[1]</sup>

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onomically sustainable, differently several Life Cycle Cost  
paper presents a Cost-Benefit Analysis of different vertical  
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nefits (increase of real estate value, savings for heating and air  
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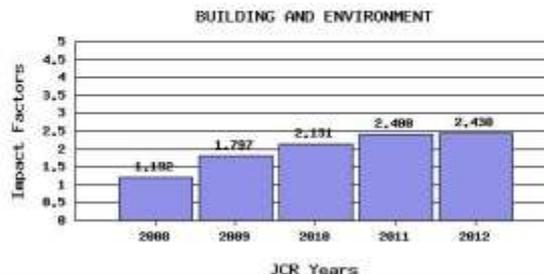
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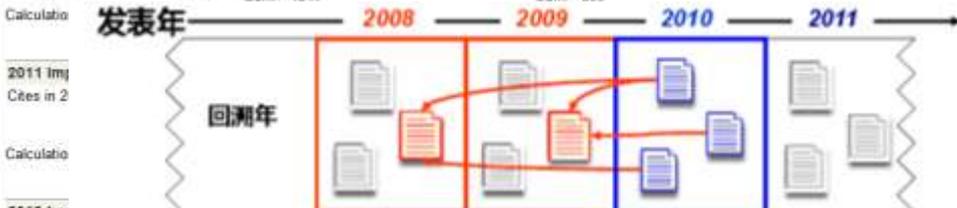
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Issues/Year: 12  
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Cites to recent items  $\frac{1344}{553} = 2.430$

Journal Impact Factor

(2012) to items published in 2011 = 567 Number of items published in 2011 = 265  
2010 = 777 2010 = 288  
2009 = 855 2009 = 269  
2008 = 630 2008 = 219  
2007 = 1174 2007 = 442  
Sum: 4003 Sum: 1483  
Cites to recent items  $\frac{4003}{1483} = 2.699$

Journal Self Cites

Self-cites show the contribution of the journal's self-cites to its impact factor. This information is also represented in the cited journal graph.

# 进入JCR数据库了解期刊的影响因子?

ISI Web of Knowledge™  
Journal Citation Reports®

2012 JCR 57  
2012 JCR Science Edition

Journal Summary List

Journals from: subject categories CONSTRUCTION & BUILDING TECHNOLOGY

Sorted by: Impact Factor

Journals 1 - 20 (of 57)

Ranking is based on your journal and sort selection.

Mark	Rank	Journal Title (linked to journal information)	ISSN	JCR Data (J)				Eigenfactor® Metrics (J)			
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-Life	Eigenfactor® Score	Article Influence® Score
<input type="checkbox"/>	1	<a href="#">COMPUT-AIDED CIV INF</a>	1093-9687	1315	4.460	3.326	0.623	53	5.0	0.00266	0.689
<input type="checkbox"/>	2	<a href="#">INDOOR AIR</a>	0905-6947	2218	3.302	3.533	0.696	46	7.3	0.00504	1.202
<input type="checkbox"/>	3	<a href="#">CEMENT CONCRETE RES</a>	0008-8846	13854	3.112	3.746	0.441	170	4.4	0.01703	1.220
<input type="checkbox"/>	4	<a href="#">ENERG BUILDINGS</a>	0378-7788	7891	2.678	3.254	0.242	516	5.5	0.01650	0.742
<input type="checkbox"/>	5	<a href="#">CEMENT CONCRETE COMP</a>	0958-9465	4299	2.523	3.359	0.363	146	7.2	0.01008	1.145
<input type="checkbox"/>	6	<a href="#">BUILD ENVIRON</a>	0360-1323	7021	2.430	2.699	0.660	312	5.4	0.01907	0.736
<input type="checkbox"/>	7	<a href="#">CONSTR BUILD MATER</a>	0950-0618	7337	2.293	2.818	0.391	960	3.9	0.02155	0.680
<input type="checkbox"/>	8	<a href="#">BUILD RES INF</a>	0961-3218	863	1.989	1.964	0.633	49	5.6	0.00225	0.581
<input type="checkbox"/>	9	<a href="#">AUTOMAT CONSTR</a>	0926-5805	1692	1.820	2.036	0.181	160	4.9	0.00388	0.449
<input type="checkbox"/>	10	<a href="#">BUILD SERV ENG RES T</a>	0143-6244	328	1.609	1.042	0.370	27	7.0	0.00104	0.497
<input type="checkbox"/>	11	<a href="#">STRUCT CONTROL HLTH</a>	1545-2263	611	1.544	1.559	0.175	57	4.6	0.00282	0.618
<input type="checkbox"/>	12	<a href="#">J BUILD PERFORM SIMU</a>	1940-1493	138	1.524		0.200	25	3.0	0.00096	
<input type="checkbox"/>	13	<a href="#">J BUILD PHYS</a>	1744-2591	194	1.419	1.434	0.348	23	4.6	0.00065	0.447
<input type="checkbox"/>	14	<a href="#">J CONSTR STEEL RES</a>	0143-974X	3038	1.327	1.565	0.237	232	6.8	0.00823	0.583
<input type="checkbox"/>	15	<a href="#">WIND STRUCT</a>	1226-6116	268	1.254	1.057	0.000	32	4.7	0.00117	0.425
<input type="checkbox"/>	16	<a href="#">J STRUCT ENG-ASCE</a>	0733-9445	8208	1.206	1.532	0.261	142	>10.0	0.01241	0.862
<input type="checkbox"/>	17	<a href="#">LIGHTING RES TECHNOL</a>	1477-1536	498	1.197	1.336	0.143	35	8.9	0.00079	0.364
<input type="checkbox"/>	18	<a href="#">MATER STRUCT</a>	1359-5997	3233	1.184	1.653	0.176	131	9.7	0.00731	0.701
<input type="checkbox"/>	19	<a href="#">TUNN UNDERGR SP TECH</a>	0886-7798	1267	1.106	1.508	0.142	120	6.5	0.00250	0.397
<input type="checkbox"/>	20	<a href="#">J WATER CIVIL ENG</a>	0899-1561	2152	0.959	1.205	0.108	176	7.7	0.00611	0.515

1

Page 1 of 3

Journal Citation Reports®

Journal Summary List

Journals 1 - 20 (of 57)

Page 1 of 3

# 如何了解期刊的影响因子?

## 了解该期刊在学科中所处的影响因子四分位区间

ISI Web of Knowledge<sup>SM</sup>

Journal Citation Reports<sup>®</sup>

WELCOME HELP RETURN TO JOURNAL

2012 JCR Science Edition

Rank in Category: BUILDING AND ENVIRONMENT

Journal Ranking

For 2012, the journal BUILDING AND ENVIRONMENT has an Impact Factor of 2.430

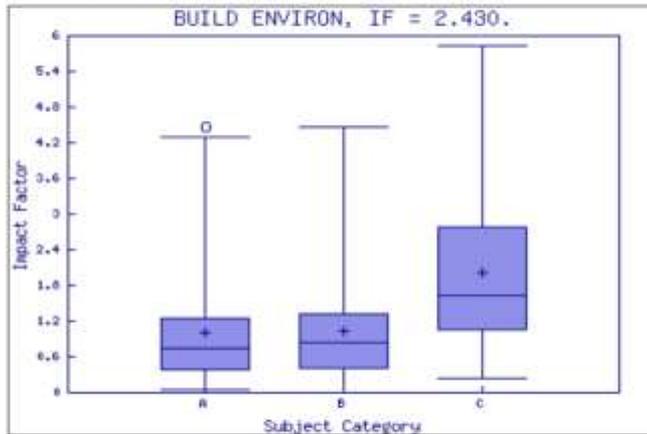
This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
CONSTRUCTION & BUILDING TECHNOLOGY	57	6	Q1
ENGINEERING, CIVIL	122	8	Q1
ENGINEERING, ENVIRONMENTAL	42	14	Q2

Category Box Plot

For 2012, the journal BUILDING AND ENVIRONMENT has an Impact Factor of 2.430

This is a box plot of the subject category or categories to which the journal has been assigned. It provides information about the distribution of journals based on Impact Factor values. It shows median, 25th and 75th percentiles, and the extreme values of the distribution.



Q1 Q2 Q3 Q4

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# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化



## 结果分析

<<返回上一页

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")  
分析: 来源出版物名称: (BUILDING AND ENVIRONMENT)

根据此字段排列记录:	设置显示选项:	排序方式:
出版年 研究方向 来源出版物名称 Web of Science 类别	显示前 10 个分析结果。 最少记录数 (阈值): 1	<input checked="" type="radio"/> 记录数 <input type="radio"/> 已选字段

分析

- 屋顶绿化研究论文主要涉及了哪些研究领域
- 共涉及**119**个研究领域

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录(并查看其他记录)。

查看记录	排除记录	字段: Web of Science 类别	记录数	占 812 的 %	柱状图	将分析数据保存到文件
<input type="checkbox"/>	<input type="checkbox"/>	ENVIRONMENTAL SCIENCES	143	17.611 %		<input checked="" type="radio"/> 表格中显示的数据行 <input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	<input type="checkbox"/>	ARCHITECTURE	111	13.670 %		
<input type="checkbox"/>	<input type="checkbox"/>	CONSTRUCTION BUILDING TECHNOLOGY	100	12.315 %		
<input type="checkbox"/>	<input type="checkbox"/>	ECOLOGY	82	10.099 %		
<input type="checkbox"/>	<input type="checkbox"/>	HORTICULTURE	74	9.113 %		
<input type="checkbox"/>	<input type="checkbox"/>	ENERGY FUELS	68	8.374 %		
<input type="checkbox"/>	<input type="checkbox"/>	WATER RESOURCES	68	8.374 %		
<input type="checkbox"/>	<input type="checkbox"/>	ENVIRONMENTAL STUDIES	66	8.128 %		

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

Web of Science™ InCites® Journal Citation Reports® Essential Science Indicators™ EndNote®

Yuehua 帮助 简体中文

WEB OF SCIENCE™



## 结果分析

[<<返回上一页](#)

812 个记录。主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*")

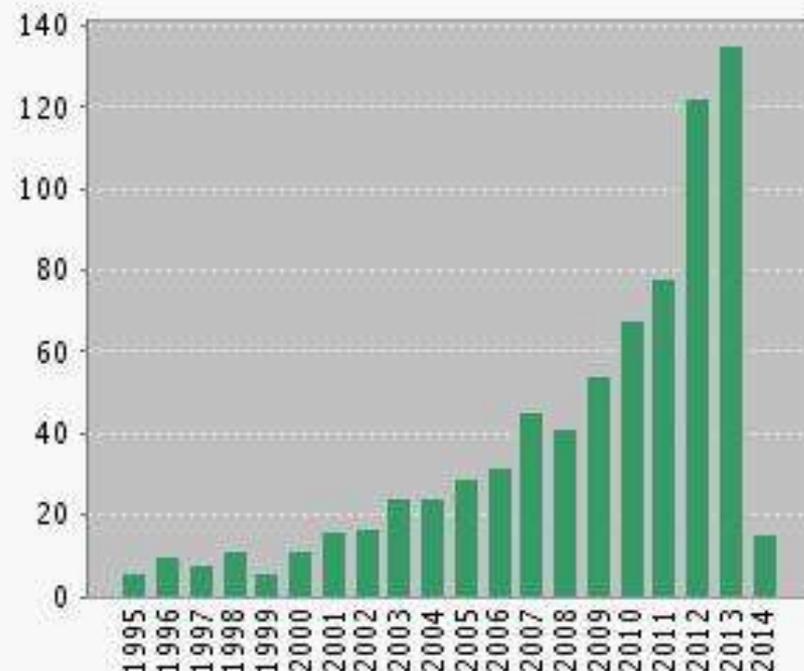
分析: 来源出版物名称: (BUILDING AND ENVIRONMENT)

<p>根据此字段排列记录:</p> <ul style="list-style-type: none"> <li>出版年</li> <li>研究方向</li> <li>来源出版物名称</li> <li>Web of Science 类别</li> </ul>	<p>设置显示选项:</p> <p>显示前 <input type="text" value="10"/> 个分析结果。</p> <p>最少记录数 (阈值): <input type="text" value="1"/></p>	<p>排序方式:</p> <p><input checked="" type="radio"/> 记录数</p> <p><input type="radio"/> 已选字段</p>
---	--	--

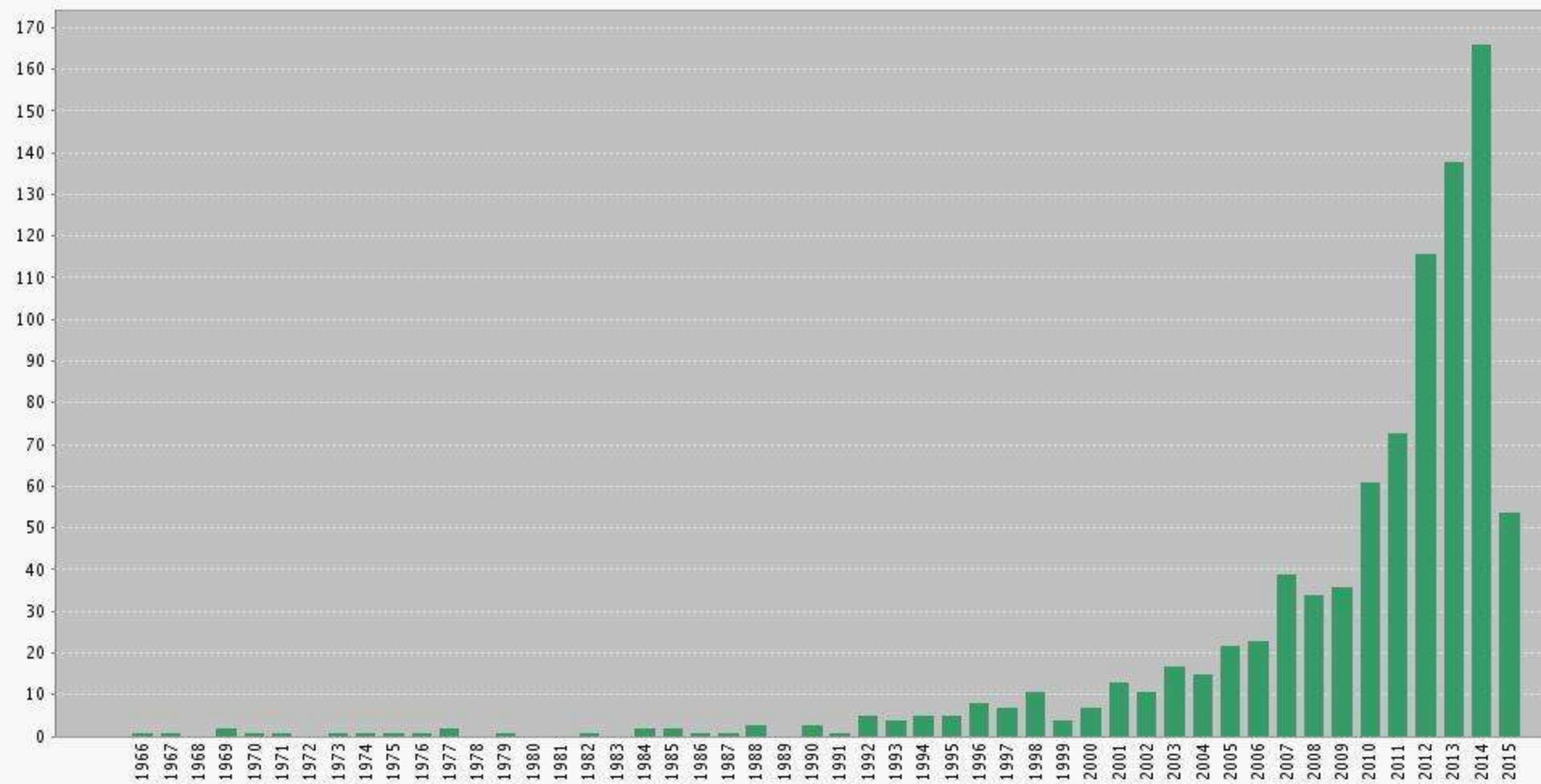
分析

请使用以下复选框查看相应记录。您可以选择查看已选择的记录,也可以排除这些记录(并查看其他记录)。

<input checked="" type="checkbox"/> 查看记录	字段: 出版年	记录数	占 812 的 %	柱状图	<input type="checkbox"/> 将分析数据保存到文件
<input type="checkbox"/>	2013	135	16.626 %		<input checked="" type="radio"/> 表格中显示的数据行
<input type="checkbox"/>	2012	122	15.025 %		<input type="radio"/> 所有数据行 (最多 200,000)
<input type="checkbox"/>	2011	78	9.606 %		
<input type="checkbox"/>	2010	68	8.374 %		
<input type="checkbox"/>	2009	54	6.650 %		
<input type="checkbox"/>	2007	45	5.542 %		
<input type="checkbox"/>	2008	41	5.049 %		
<input type="checkbox"/>	2006	32	3.941 %		
<input type="checkbox"/>	2005	29	3.571 %		
<input type="checkbox"/>	2003	24	2.956 %		



# 课题选题实例：屋顶绿化



1966-2015

如何从整体上把握课题的发展方向和趋势？

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

The screenshot shows the Web of Science search results for the query 'green roofs'. The search results are sorted by '出版日期 (降序)' (Publication Date, Descending). The first result is 'State-of-the-art analysis of the environmental benefits of green roofs' by Berardi, Umberto, et al., published in APPLIED ENERGY in February 2014. The second result is 'Processive Pectin Methyltransferases: The Role of Electrostatic Potential, Breathing Motions, and Bond Cleavage in the Rectification of Brownian Motions' by Mercadante, Davide, et al., published in PLOS ONE in February 2014. The third result is 'Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings' by Ouldbouhithine, Salah-Eddine, et al., published in APPLIED ENERGY in February 2014. The fourth result is 'Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex' by Hong, Taehoon, et al., published in APPLIED ENERGY in February 2014. The fifth result is 'Quantifying the thermal performance of green facades: A critical review' by Hunter, Annie M., et al., published in ECOLOGICAL ENGINEERING in February 2014.

WEB OF SCIENCE™ THOMSON REUTERS®

检索结果: 788  
(来自 Web of Science 核心合集)

您的检索:  
主题: ("roof green" or "Green Roof" or "roof garden")...更多内容

Web of Science 类别

- ENVIRONMENTAL SCIENCES (142)
- ENGINEERING ENVIRONMENTAL (120)
- ARCHITECTURE (111)
- ENGINEERING CIVIL (108)
- CONSTRUCTION BUILDING TECHNOLOGY (98)

更多选项/分类...

文献类型

- ARTICLE (633)
- REVIEW (39)
- BOOK REVIEW (25)
- LETTER (25)
- PROCEEDING (1)

更多选项/分类...

研究方向

作者

团体作者

排序方式: 出版日期 (降序)

第 1 页, 共 79 页

选择页面

保存至 EndNote Online

添加到标记结果列表

分析检索结果

创建引文报告

1. State-of-the-art analysis of the environmental benefits of green roofs  
作者: Berardi, Umberto, GhaffarianHoseini, AmirHosein, GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014  
全文 查看摘要

2. Processive Pectin Methyltransferases: The Role of Electrostatic Potential, Breathing Motions, and Bond Cleavage in the Rectification of Brownian Motions  
作者: Mercadante, Davide, Melton, Laurence D., Jameson, Geoffrey B., 等.  
PLOS ONE 卷: 9 期: 2 文献号: e87581 出版年: FEB 4 2014  
全文 查看摘要

3. Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings  
作者: Ouldbouhithine, Salah-Eddine, Belarbi, Rafik, Saïor, David J.  
APPLIED ENERGY 卷: 114 特刊: SI 页: 273-282 出版年: FEB 2014  
全文 查看摘要

4. Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex  
作者: Hong, Taehoon, Koo, Choongwan, Lee, Sungug  
APPLIED ENERGY 卷: 114 特刊: SI 页: 663-675 出版年: FEB 2014  
全文 查看摘要

5. Quantifying the thermal performance of green facades: A critical review  
作者: Hunter, Annie M., Williams, Nicholas S. G., Kayner, John P., 等.  
ECOLOGICAL ENGINEERING 卷: 63 页: 107-113 出版年: FEB 2014  
全文 查看摘要

被引频次: 0  
(来自 Web of Science 的核心合集)

# 利用SCI的分析工具了解课题的发展趋势：屋顶绿化

The screenshot shows the Web of Science search results page for the query "roof green\* or Green\* Roof\* or roof garden\*". The results are sorted by citation frequency (降序). The top result is "Lipid Selection, Induction of Lipid Synthesis and Outdoor Mass Cultivation of *Chlorella* sp. in a Photobioreactor" with 453 citations. Other high-cited papers include "ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION" (147 citations), "Rhodope and vardar: the metamorphic and the olistostromic paired belts related to the Cretaceous subduction under Europe" (145 citations), and "Uptake of a fluorescent marker in plant cells is sensitive to brefeldin A and wortmannin" (134 citations). The page also features a left sidebar for refining results and a top navigation bar with search and analysis tools.

WEB OF SCIENCE™ THOMSON REUTERS®

返回检索 我的工具 检索历史 标记结果列表

检索结果: 788  
(来自 Web of Science 核心合集)

您的检索:  
主题: ("roof green\*" or "Green\* Roof\*" or "roof garden\*" ...更多内容)

分析检索结果  
创建引文报告

排序方式: 被引频次 (降序) [下拉菜单]  
出刊日期 (降序)  
出刊日期 (升序)  
最近添加  
相关性  
第一作者 (升序)  
第一作者 (降序)  
来源出版物名称 (升序)

保存至 EndNote Online 添加到标记结果列表

分析检索结果  
创建引文报告

被引频次: 453  
(来自 Web of Science 核心合集)

被引频次: 147  
(来自 Web of Science 核心合集)

被引频次: 145  
(来自 Web of Science 核心合集)

被引频次: 134  
(来自 Web of Science 核心合集)

被引频次: 116  
(来自 Web of Science 核心合集)

被引频次: 116  
(来自 Web of Science 核心合集)

被引频次: 116  
(来自 Web of Science 核心合集)

被引频次: 112  
(来自 Web of Science 核心合集)

Web of Science 类别  
文献类型  
研究方向  
作者  
团体作者  
编者  
来源出版物名称  
丛书名称  
会议名称  
出版年  
机构扩展

UNIVERSITY OF HONG KONG (22)  
MICHIGAN STATE UNIVERSITY (20)  
UNIVERSITY OF SHEFFIELD (19)  
FLORIDA STATE UNIVERSITY  
SVTFCR (18)

高被引论文

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

WEB OF SCIENCE™



返回检索

我的工具

检索历史

标记结果列表

检索结果: 812

(来自 Web of Science 核心合集)

您的检索:

主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" ...更多内容)

创建跟踪服务

精炼检索结果

在如下结果集内检索...

Web of Science 类别

- ENVIRONMENTAL SCIENCES (143)
- ENGINEERING ENVIRONMENTAL (121)
- ARCHITECTURE (111)
- ENGINEERING CIVIL (109)
- CONSTRUCTION BUILDING TECHNOLOGY (100)

更多选项/分类...

精炼

文献类型

- ARTICLE (653)
- REVIEW (39)

排序方式: 出版日期 (降序)

第 1 页, 共 82 页

选择页面



保存至 EndNote Online

添加到标记结果列表

1. **State-of-the-art analysis of the environmental benefits of green roofs**

作者: Berardi, Umberto; GhaffarianHoseini, AmirHosein; GhaffarianHoseini, Ali  
APPLIED ENERGY 卷: 115 页: 411-428 出版年: FEB 15 2014

全文

查看摘要

被引频次: 0  
(来自 Web of Science 的核心合集)

2. **Processive Pectin Methylesterases: The Role of Pectin Methyl Esterases in the Cleavage in the Rectification of Brownian Motion and Bond**

作者: Mercadante, Davide; Melton, Laurence D.; Jamnik, Robert  
PLOS ONE 卷: 9 期: 2 文献号: e87581 出版年: FEB 2014

全文

查看摘要

被引频次: 0  
(来自 Web of Science 的核心合集)

3. **Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings**

作者: Ouldboukhitine, Salah-Eddine; Belarbi, Rafik; Sailor, David J.  
APPLIED ENERGY 卷: 114 特刊: SI 页: 273-282 出版年: FEB 2014

全文

查看摘要

被引频次: 0  
(来自 Web of Science 的核心合集)

4. **Benchmarks as a tool for free allocation through comparison with similar projects: Focused on multi-family housing complex**

作者: Hong, Taehoon; Koo, Choongwan; Lee, Sungug  
APPLIED ENERGY 卷: 114 特刊: SI 页: 663-675 出版年: FEB 2014

全文

查看摘要

被引频次: 0  
(来自 Web of Science 的核心合集)

5. **Quantifying the thermal performance of green facades: A critical review**

作者: Hunter, Annie M.; Williams, Nicholas S. G.; Rayner, John P.; 等

被引频次: 0  
(来自 Web of Science 的核心合集)

# 利用SCI的分析工具了解课题的发展趋势：屋顶绿化

引文报告: 812

(来自 Web of Science 核心合集)

你的检索: 主题: ("roof green" or "Green Roof" or "rooft garden" or "roofs garden" or "vegetative roof" or "living roof" or "eceroof" or "aglogical roof" or "rad roof" or "roof plant" or "green roof" or "green" or "wall plant") ...更多内容

此报告中的引文均来源于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

H: 40  
10.14

每年出版的文献数



显示最近 20 年。  
查看所有年份的图表。

每年的引文数



显示最近 20 年。  
查看所有年份的图表。

找到的结果数: 812

被引频次总计[?]: 8233

去除自引的被引频次总计[?]: 4847

施引文献 [?]: 4654

去除自引的施引文献[?]: 4253

每项平均引用次数[?]: 10.14

h-index [?]: 48

排序方式: 被引频次 (降序)

第 1 页, 共 82 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

1. **Microalgae for Oil: Strain Selection, Induction of Lipid Synthesis and Outdoor Mass Cultivation in a Low-Cost Photobioreactor**

作者: Rodolfi, Liliana; Zittelli, Graziella Chini; Bassi, Niccolo; 等  
BIOTECHNOLOGY AND BIOENGINEERING 卷: 102 期: 1 页: 100-112 出版年: JAN 1 2009

2010	2011	2012	2013	2014	合计	平均引用次数/年
775	1105	1675	2074	310	8233	178.98
43	86	119	176	18	453	75.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 引文报告: 239

(来自 Web of Science 核心合集)

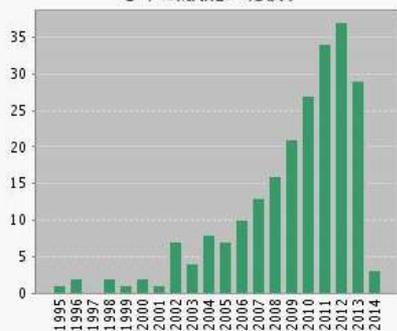
您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

此报告中的引文均来源于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

# H :31

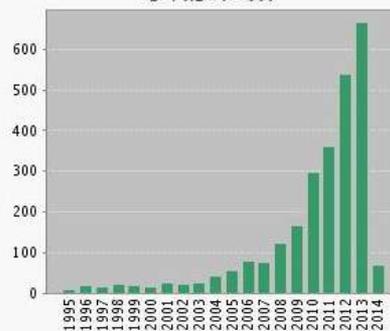
# 11.18

每年出版的文献数



显示最近 20 年。  
[查看所有年份的图表。](#)

每年的引文数



显示最近 20 年。  
[查看所有年份的图表。](#)

找到的结果数:	239
被引频次总计[?]:	2671
去除自引的被引频次总计[?]:	2155
施引文献[?]:	1615
去除自引的施引文献[?]:	1505
每项平均引用次数[?]:	11.18
h-index [?]:	31

排序方式: **被引频次 (降序)**

第 1 页, 共 24 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从  至

1. **ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION**

作者: LAZARIDIS, T; PAULAITIS, ME  
JOURNAL OF PHYSICAL CHEMISTRY 卷: 96 期: 9 页: 3847-3855 出版年: APR 30 1992

2010	2011	2012	2013	2014	合计	平均引用次数/库
298	361	538	665	69	2671	106.84
6	4	9	3	0	147	6.39

# 利用SCI的分析工具了解课题的发展趋势：屋顶绿化

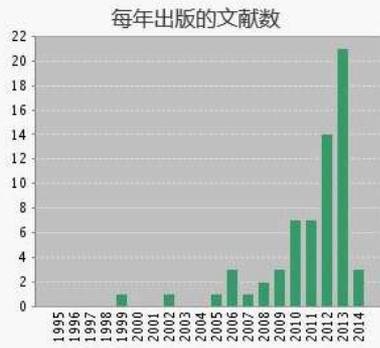
## 引文报告: 65

(来自 Web of Science 核心合集)

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "livin\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

此报告中的引文均来自于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

H :11  
8.26



显示最近 20 年。



显示最近 20 年。

找到的结果数:	65
被引频次总计[?]:	537
去除自引的被引频次总计[?]:	453
施引文献[?]:	427
去除自引的施引文献[?]:	399
每项平均引用次数[?]:	8.26
h-index [?]:	11

排序方式: **被引频次 (降序)**

第 1 页, 共 7 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

- 1. **Carbon Nanotubes as Molecular Transporters for Walled Plant Cells**  
作者: Liu, Qiaoling; Chen, Bo; Wang, Qinli; 等.  
NANO LETTERS 卷: 9 期: 3 页: 1007-1010 出版年: MAR 2009
- 2. **Recreation-amenity use and contingent valuation of urban greenspaces in Guangzhou, China**

2010	2011	2012	2013	2014	合计	平均引用次数/年
35	70	130	151	39	537	26.85
12	19	27	21	3	87	14.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

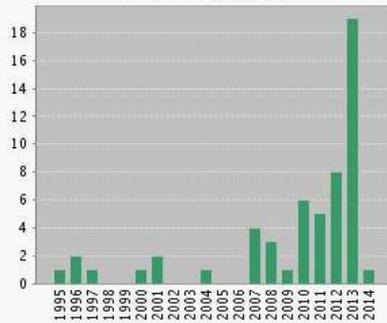
## 引文报告: 62

(来自 Web of Science 核心合集)

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecoroo\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

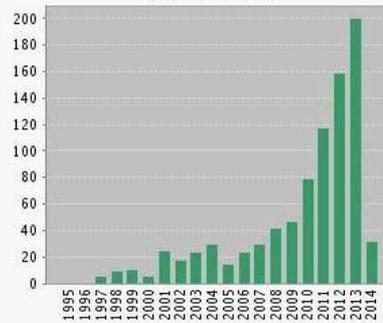
此报告中的引文均来自于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

每年出版的文献数



显示最近 20 年。  
[查看所有年份的图表。](#)

每年的引文数



显示最近 20 年。  
[查看所有年份的图表。](#)

H :15

14.29

找到的结果数: 62

被引频次总计[?]: 886

去除自引的被引频次总计[?]: 819

施引文献: [?] 757

去除自引的施引文献[?]: 730

每项平均引用次数[?]: 14.29

h-index [?]: 15

排序方式: **被引频次 (降序)**

第 1 页, 共 7 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

2010	2011	2012	2013	2014	合计	平均引用次数/年
79	118	159	200	32	886	30.55

**Green roofs as urban ecosystems: Ecological structures, functions, and services**

作者: Oberndorfer, Erica; Lundholm, Jeremy; Bass, Brad; 等.  
BIOSCIENCE 卷: 57 期: 10 页: 823-833 出版年: NOV 2007

14 30 24 31 2 116 14.50

# 利用SCI的分析工具了解课题的发展趋势:屋顶绿化

## 引文报告: 46

(来自 Web of Science 核心合集)

您的检索: 主题: ("roof\* green\*" or "Green\* Roof\*" or "roof\* garden\*" or "rooftop garden\*" or "vegetative roof\*" or "living\* roof\*" or "ecorooft\*" or "ecological roof\*" or "sod roof\*" or "roof\* plant\*" or "green\* wall\*" or "wall\* green\*" or "wall\* plant\*") ...[更多内容](#)

此报告中的引文均来源于Web of Science 核心合集收录的文献。执行“被引参考文献检索”，可查看Web of Science 核心合集未收录文献的引文。

# H :10

# 9.09

找到的结果数: 46

被引频次总计[?]: 418

去除自引的被引频次总计[?]: 372

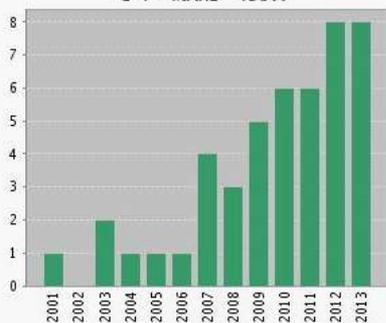
施引文献[?]: 296

去除自引的施引文献[?]: 278

每项平均引用次数[?]: 9.09

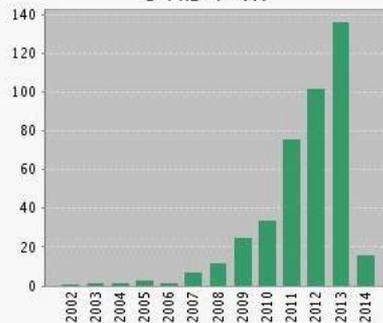
h-index [?]: 10

每年出版的文献数



显示最近 20 年。

每年的引文数



显示最近 20 年。

排序方式: **被引频次 (降序)**

第 1 页, 共 5 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1900 至 2014 转至

1. **Green roofs as urban ecosystems: Ecological structures, functions, and services**

作者: Oberndorfer, Erica; Lundholm, Jeremy; Bass, Brad; 等.  
BIOSCIENCE 卷: 57 期: 10 页: 823-833 出版年: NOV 2007

2. **Comparative life cycle assessment of standard and green roofs**

2010	2011	2012	2013	2014	合计	平均引用次数/年
34	76	102	136	16	418	32.15
14	30	24	31	2	116	14.50

# 屋顶绿化的论文被哪些期刊引用？

WEB OF SCIENCE™



近期检索

我的工具 检索历史 标记结果列表

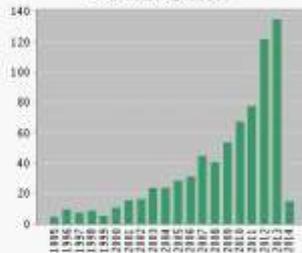
引文报告: 788

来自 Web of Science 核心合集

您的检索: 主题: ("roof green" or "Green Roof" or "roof garden" or "rooftop garden" or "vegetative roof" or "living roof" or "acorned" or "ecological roof" or "lod roof" or "roof plant" or "green wall" or "wall green" or "wall plant") [更多内容](#)

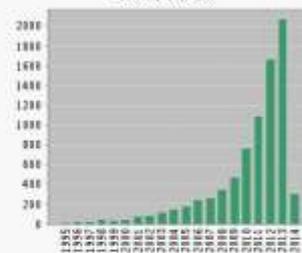
此报告中的引文均基于 Web of Science 核心合集收录的文献。执行“带引参考文献检索”，可查看 Web of Science 核心合集中收录文献的引文。

每年出版的文献数



显示最近 20 年 -  
查看按年出版的图表。

每年的引文数



显示最近 20 年 -  
查看按年出版的图表。

找到的结果数: 788  
被引频次总计[刊]: 8118  
去除自引的被引频次总计[刊]: 4743  
期刊文献[刊]: 4580  
去除自引的期刊文献[刊]: 4164  
每项平均引文次数[刊]: 10.30  
h-index [刊]: 48

点击查看施引文献

将序方式 被引频次 (降序)

第 1 页, 共 79 页

选择记录前面的复选框, 从“引文报告”中删除记录

或者限定在以下时间范围内出版的记录, 从 1975 2014 重置

1. **Microalgae for Oil: Strain Selection, Induction of Lipid Synthesis and Outdoor Mass Cultivation in a Low-Cost Photobioreactor**  
作者: Rodolfi, Liliana; Zittelli, Graziella Chini, Basol, Niccolò, 等  
BIOTECHNOLOGY AND BIOENGINEERING 卷: 102 期: 1 页: 100-112 出版年: JAN 1 2009
2. **ENTROPY OF HYDROPHOBIC HYDRATION - A NEW STATISTICAL MECHANICAL FORMULATION**  
作者: LAZARIDIS, T, PAULAITIS, ME  
JOURNAL OF PHYSICAL CHEMISTRY 卷: 96 期: 9 页: 3847-3855 出版年: APR 30 1992
3. **Rhodope and vardar: the metamorphic and the olistostromic paired belts related to the Cretaceous subduction under Europe**  
作者: Ricco, LE, Burg, JP, Godfriaux, I, 等

2010	2011	2012	2013	2014	合计	平均引用次数/年
768	1085	1669	2071	310	8118	324.72
43	86	119	176	18	453	75.50
6	4	9	3	0	147	6.39
24	11	18	13	0	145	8.53

# 屋顶绿化的论文被哪些期刊引用？

**WEB OF SCIENCE™** THOMSON REUTERS

返回检索 我的工具 检索历史 标记结果列表

合计施引文献: 4,427  
(来自 Web of Science 核心合集)

你的检索:  
主题: ("roof green" or "Green Roof" or "roof garden"...更多内容)

排序方式: 被引频次 (降序)

分析搜索结果

1. **Pectins: structure, biosynthesis, and oligogalacturonide-related signaling**  
作者: Ridley, BL, O'Neill, MA, Mohr, DA  
会议: Symposium of the American Chemical Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议资助商: Amer Chem Soc  
PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-967 出版年: JUL 2001  
被引频次: 652  
(来自 Web of Science 的核心合集)

2. **The Arabidopsis GNOM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth**  
作者: Calder, N, Anders, N, Wolters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
被引频次: 514  
(来自 Web of Science 的核心合集)

3. **Microalgae for biodiesel production and other applications: A review**  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
被引频次: 510  
(来自 Web of Science 的核心合集)

4. **SNARE-protein-mediated disease resistance at the plant cell wall**  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
被引频次: 379  
(来自 Web of Science 的核心合集)

5. **Plant growth promoting rhizobacteria as biofertilizers**  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
被引频次: 377  
(来自 Web of Science 的核心合集)

6. **Toward a systems approach to understanding plant-cell walls**  
作者: Somerville, C, Bauer, S, Brininstool, G, 等  
SCIENCE 卷: 305 期: 5705 页: 2206-2211 出版年: DEC 24 2004  
被引频次: 363  
(来自 Web of Science 的核心合集)

7. **An information theory model of hydrophobic interactions**  
作者: Hummer, G, Garde, S, Garcia, AE, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 93 期: 17 页: 8951-8955 出版年: AUG 20 1996  
被引频次: 354  
(来自 Web of Science 的核心合集)

8. **FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE PROTEIN**  
被引频次: 327  
(来自 Web of Science 的核心合集)

Web of Science 类别  
文献类型  
研究方向  
作者  
团体作者  
编者  
来源出版物名称  
丛书名称  
会议名称  
出版年

BIRESOURCE TECHNOLOGY (119)  
ACTA HORTICULTURAE (91)  
BUILDING AND ENVIRONMENT (87)  
LANDSCAPE AND URBAN PLANNING (82)  
ENERGY AND BUILDINGS (72)

更多选项/分类... 精炼

# 屋顶绿化的论文被哪些高影响力作者引用？

The screenshot shows a Web of Science search results page. The search criteria are: **您的检索:** 主题: "roof green" or "Green Roof" or "rooftop garden" ... 更多内容. The total number of citations is 4,427. The results are sorted by citation frequency (默认排序). The top results are:

- 1. **Pectins: structure, biosynthesis, and oligogalacturonide-related signaling**  
作者: Ridley, BL, O'Neill, MA, Mohnen, DA  
会议: Symposium of the American-Chemical-Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议指南: Amer Chem Soc  
PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-957 出版年: JUL 2001  
引用频次: 602
- 2. **The Arabidopsis GNOM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth**  
作者: Geldner, N, Anders, N, Wolters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
引用频次: 514
- 3. **Microalgae for biodiesel production and other applications: A review**  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
引用频次: 510
- 4. **SNARE-protein-mediated disease resistance at the plant cell wall**  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
引用频次: 379
- 5. **Plant growth promoting rhizobacteria as biofertilizers**  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
引用频次: 377
- 6. **Toward a systems approach to understanding plant-cell walls**  
作者: Somerville, C, Bauer, S, Brinistead, G, 等  
SCIENCE 卷: 306 期: 5705 页: 2206-2211 出版年: DEC 24 2004  
引用频次: 363
- 7. **An information theory model of hydrophobic interactions**  
作者: Hamner, G, Garcia, S, Garcia, AE, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 100 期: 12 页: 12700-12705 出版年: JUN 15 2003  
引用频次: 354

The left sidebar contains filters for Web of Science categories, document types, research directions, authors, and subject areas. The authors listed include JIM CY (38), BALUSKA F (30), KITTAJ C (25), SAMAJ J (23), and BOULARD T (21).

# 屋顶绿化的论文被哪些研究机构引用？

**WEB OF SCIENCE™** THOMSON REUTERS™

查询检索

我的工具 检索历史 标记结果列表

合计参考文献: 4,427  
(来自 Web of Science 核心数据库)

您的检索:  
主题: "roof green" or "Green Roof" or "roof garden" ... 更多内容

精炼检索结果

添加下组更多的检索

Web of Science 类别

文献类型

研究方向

作者

团体作者

编者

来源出版物名称

丛书名称

会议名称

出版年

机构扩展

- CHINESE ACADEMY OF SCIENCES (113)
- UNIVERSITY OF CALIFORNIA SYSTEM (96)
- INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE INRA (91)
- UNITED STATES DEPARTMENT OF

排序方式: 被引频次 (降序)

第 1 页, 共 443 页

选择页面 保存至 EndNote Online 添加新标记结果列表 分析检索结果

- Pectins: structure, biosynthesis, and oligogalacturonide-related signaling**  
作者: Ridley, BL, O'Neill, MA, Mohsen, DA  
会议: Symposium of the American-Chemical-Society 会议地点: SAN FRANCISCO, CA 会议日期: MAR 26-29, 2000  
会议赞助商: Amer Chem Soc  
PHYTOCHEMISTRY 卷: 57 期: 6 页: 929-967 出版年: JUL 2001  
全文 查看摘要 被引频次: 652 (来自 Web of Science 的核心数据库)
- The Arabidopsis GNUM ARF-GEF mediates endosomal recycling, auxin transport, and auxin-dependent plant growth**  
作者: Goldner, N, Anders, N, Walters, H, 等  
CELL 卷: 112 期: 2 页: 219-230 出版年: JAN 24 2003  
全文 查看摘要 被引频次: 514 (来自 Web of Science 的核心数据库)
- Microalgae for biodiesel production and other applications: A review**  
作者: Mata, Teresa M, Martins, Antonio A, Caetano, Nidia S  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS 卷: 14 期: 1 页: 217-232 出版年: JAN 2010  
全文 查看摘要 被引频次: 510 (来自 Web of Science 的核心数据库)
- SNARE-protein-mediated disease resistance at the plant cell wall**  
作者: Collins, NC, Thordal-Christensen, H, Lipka, V, 等  
NATURE 卷: 425 期: 6961 页: 973-977 出版年: OCT 30 2003  
全文 查看摘要 被引频次: 379 (来自 Web of Science 的核心数据库)
- Plant growth promoting rhizobacteria as biofertilizers**  
作者: Vessey, JK  
PLANT AND SOIL 卷: 255 期: 2 页: 571-586 出版年: AUG 2003  
全文 查看摘要 被引频次: 377 (来自 Web of Science 的核心数据库)
- Toward a systems approach to understanding plant-cell walls**  
作者: Somerville, C, Bauer, S, Brinnetool, G, 等  
SCIENCE 卷: 306 期: 5705 页: 2206-2211 出版年: DEC 24 2004  
全文 查看摘要 被引频次: 363 (来自 Web of Science 的核心数据库)
- An information theory model of hydrophobic interactions**  
作者: Hummer, G, Garde, S, Garcia, AE, 等  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 卷: 93 期: 17 页: 8951-8955 出版年: AUG 20 1996  
全文 查看摘要 被引频次: 354 (来自 Web of Science 的核心数据库)
- FIRST-PRINCIPLES CALCULATION OF THE FOLDING FREE-ENERGY OF A 3-HELIX BUNDLE PROTEIN**  
被引频次: 327 (来自 Web of Science 的核心数据库)

# 屋顶绿化的论文被哪些研究国家引用？

合计施引文献: 4,427

(来自 Web of Science 核心合集)

排序方式: 被引频次 (降序)

第 1 页, 共 443 页

您的检索:

主题: "Green green" or "Green Roof" or



# 屋顶绿化课题Web of Science平台检索的结果

The screenshot displays the Web of Science search page. At the top, the 'WEB OF SCIENCE' logo and 'THOMSON REUTERS' are visible. A search bar contains the query: `r "sod roof" or "roof" plant* or "green" wall* or "wall" green* or "wall" plant*`. The search results section is currently empty. Below the search bar, there are filters for '时间跨度' (Time Span) set to '所有年份' (All Years) and a range from 1864 to 2015. A navigation bar at the bottom includes links for '客户反馈和技术支持', '其他资源', 'Web of Science 中的新耀功能', and '我的 Web of Science'. The footer contains the Thomson Reuters logo and the text 'Thomson Reuters - IP and Science'.

# 屋顶绿化课题Web of Science平台检索的结 用

The screenshot shows the Web of Science search results page for the query 'green roof'. The page is in Chinese and displays 8,469 search results. The results are sorted by '出版日期 (降序)' (Publication Date, Descending). The first six results are listed below:

序号	标题	作者	期刊	卷期	页码	出版年	引用频次
1	The future of urban agriculture and biodiversity-ecosystem services: Challenges and next steps	Liu, Brenda B.; Philpott, Stacy M.; Jha, Shalene	BASIC AND APPLIED ECOLOGY	卷 16 期 3	189-201	MAY 2015	0
2	Accumulated snow layer influence on the heat transfer process through green roof assemblies	Zhao, Mingjie; Seebic, Jelena; Berghage, Robert D.; 等	BUILDING AND ENVIRONMENT	卷 87	82-91	MAY 2015	0
3	Thermal performance characteristics of unshaded courtyards in hot and humid climates	Ghaffarianhoseini, Amirhosein; Berardi, Umberto; Ghaffarianhoseini, Ali	BUILDING AND ENVIRONMENT	卷 87	154-160	MAY 2015	0
4	Nutrient removal by different plants in wetland roof systems treating domestic wastewater	Phan Thi Hai Van; Nguyen Thanh Tin; Vu Thi Dieu Hien; 等	DESALINATION AND WATER TREATMENT	卷 54 期 4-6	1344-1362	MAY 1 2015	0
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作者: 贺坤, 项耿铭, 韦捷峰, 等  
作者: He Kun, Xiang Gengming, Wei Jiefeng, 等  
西北林学院学报 卷: 30 期: 1 页: 263-267,292 文献号: 1001-7461(2015)30:1<263-267,292>2.0.TX;2-5 出版年: 2015  
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Situation and progress in the low-impact development of basic measures for performance  
作者: 牛志广, 董珍珍, 陈彦高  
作者: Niu Zhiguang, Dong Zhenzhen, Chen Yarod  
安全与环境学报 卷: 14 期: 6 页: 320-325 文献号: 1009-6094(2014)14:6<320-325>2.0.TX;2-G 出版年: 2014  
Journal of Safety and Environment 卷: 14 期: 6 页: 320-325 文献号: 1009-6094(2014)14:6<320-325>2.0.TX;2-G 出版年: 2014  
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作者: 武金翠, 孙树群, 潘文明, 等  
作者: Wu Jincui, Sun Shuqun, Pan Wenming, 等  
上海农业学报 卷: 30 期: 6 页: 123-127 文献号: 1000-3924(2014)30:6<123-127>2.0.TX;2-S 出版年: 2014  
Acta Agriculturae Shanghai 卷: 30 期: 6 页: 123-127 文献号: 1000-3924(2014)30:6<123-127>2.0.TX;2-S 出版年: 2014  
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The drought stress tolerance of several lawn-style roof-green species in Guangzhou Area  
作者: 汤聪, 刘念, 郭威, 等  
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The screenshot shows the Web of Science interface with search results for green roof research. The search criteria include '屋顶绿化' (green roof), '绿色屋顶' (green roof), '生态屋顶' (ecological roof), '屋顶花园' (roof garden), and '屋顶种植' (roof planting). The results are sorted by '出版日期(降序)' (Publication Date (Descending)).

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1. **屋顶绿化传热临界温度**  
Indoor Temperature of Green Roof in Heat Transfer Critical State  
作者: 唐鸣铮, 杨真静, 郑引奎  
作者: Tang Mingzheng, Yang Zhenjing, Zheng Shukai  
《土木建筑与环境工程》 卷: 35 期: 2 页: 100-104 文献号: 1674-4764(2013)35:2<100:WDLHCR>2.0.TX:2-W 出版年: 2013  
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2. **粗放型屋顶绿化隔热效果分析**  
Analysis on Thermal Insulation Characteristics of Extensive Green Roofs  
作者: 杨真静, 唐鸣铮, 郑引奎  
作者: Yang Zhenjing, Tang Mingzheng, Zheng Shukai  
《土木建筑与环境工程》 卷: 34 期: 3 页: 124-128 文献号: 1674-4764(2012)34:3<124:CFXWDL>2.0.TX:2-W 出版年: 2012  
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3. **绿化屋面室内热环境研究**  
Indoor Thermal Environment for Green Roof  
作者: 杨真静, 唐鸣铮, 郑引奎  
作者: Yang Zhenjing, Tang Mingzheng, Zheng Shukai  
《土木建筑与环境工程》 卷: 32 期: 4 页: 80-84 文献号: 1674-4764(2010)32:4<80:LHWDSN>2.0.TX:2-3 出版年: 2010  
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4. **屋顶绿化节能热工评价**  
Thermal Performance and Energy Analysis of Green Roof  
作者: 唐鸣铮, 郑引奎, 杨真静  
作者: Tang Mingzheng, Zheng Shukai, Yang Zhenjing  
《土木建筑与环境工程》 卷: 32 期: 2 页: 87-90 文献号: 1674-4764(2010)32:2<87:WDLHJN>2.0.TX:2-B 出版年: 2010  
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The screenshot shows the Web of Science interface for the article "Analysis on Thermal Insulation Characteristics of Extensive Green Roofs". The article is by Yang Zhenjing, Tang Mingfang, and Zhang Shukui, published in the Journal of Civil, Architectural & Environmental Engineering. The right sidebar contains citation metrics and a list of references. A red arrow points to the "16 引用的参考文献" (16 Cited References) link in the sidebar.

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### Analysis on Thermal Insulation Characteristics of Extensive Green Roofs

#### 粗放型屋顶绿化隔热效果分析

作者: Yang Zhenjing; Tang Mingfang; Zhang Shukui  
作者: 杨真静; 唐鸣放; 张舒葵

Journal of Civil, Architectural & Environmental Engineering  
土木建筑与环境工程  
卷: 34 期: 3 页: 124-126  
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出版年: 2012

#### 摘要

Through comparison of internal surface temperature (IST) of green roofs with that without green roofs through field measurement and statistics analysis, green-roof under natural convention climate in summer was analyzed. Distribution frequency and sum of IST under the conditions with and without green roofs were investigated by dividing IST into several ranges. It is shown that the frequency of IST lower than 34 °C for green roofs was 90%, which was about 1.5 times of that for roofs without green. While the frequency of IST exceeding 34 °C for green roofs was 4.6% of that for roofs without green, and the sum of IST exceeding 30 °C was about 1/3 of that for roofs without greening. Moreover, the property of thermal insulation of green roofs had strong positive relation with outdoor temperature. The thermal insulation characteristic was better as outdoor temperature grew up.

摘要: 以自然通风型的屋顶绿化为研究对象,对有无绿化屋顶内表面温度进行比较,采用实例数据统计分析的方法,以全夏季为研究周期,在不同温度区段分析屋顶内表面温度的分布特性,比较2种状态下屋顶内表面温度的分布频率以及总温度,得到绿化屋顶内表面温度<34 °C出现的频率占总周期的90%,是无绿化屋顶的1.6倍,大于36 °C高温的频率为无绿化屋顶的4.6%,绿化屋顶内表面大于30 °C的温度总量均为无绿化屋顶的1/3,且绿化屋顶的隔热性能与室外气温有较强的正向性,随着气温的升高,绿化屋顶的隔热性能体现得更加充分。

#### 关键词

作者关键词: roofs; green; surface temperature; thermal insulation characteristic  
作者关键词: 屋顶; 绿化; 表面温度; 隔热特性

#### 作者信息

地址: Yang Zhenjing, Kai 1 laboratory of New Technology for Construction of Cities in Mountain Area, Ministry of Education, China

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### Resource potential assessment of urban roof greening and development strategies:a case study in Futian central district,Shenzhen,China

#### 城市屋顶绿化资源潜力评估及绿化策略分析以深圳市福田中心区为例

作者: Shao Tianran; Li Chaoou; Deng Hui  
来源: 生态学报, 2012

Acta Ecologica Sinica  
生态学报  
卷: 32 期: 10 页: 4030-4030  
文摘号: 1000-0933(2012)10:4030<CN;NDUHN>2.0.TX;2-0  
出版年: 2012

#### 摘要

In recent decades,numerous urban environmental problems have emerged with rapid urbanization in China.Roof greening is an important strategy to improve the ecological environment in modern cities,and to alleviate the negative influence of human activities in high-density built-up areas.Therefore,such greening has been rapidly developed in many domestic cities.Currently,roof greening in Shenzhen is in the lead position among major cities in China,but remains behind developed cities abroad.As a boom city with a certain international impact we chose Shenzhen as the study region to do a resource potential assessment of urban roof greening and to explore greening strategies.The aim was to evaluate space resources for roof greening and to formulate greening strategies in accord with the actual state of roof greening development in the city.The study provides necessary theoretical support and a scientific basis for further such development,and has a great reference value to other cities for similar research or practical work.In the present study we researched the Futian central district of Shenzhen,using as basic data sources remote sensing data,archives of project design,and on-site investigation.Based on a review of relevant research at home and abroad,we selected appropriate impact factors for roof greening and constructed the method of resource potential assessment.Then,we assessed the resource potential of urban roof greening and explored the greening strategies.Results show that:(1) Construction period,load-bearing structure,roof attribute and roof microclimate are four important factors in urban roof greening. These may be further divided into eight key impact factors for determining the potential of urban roof greening resources. These are construction period, construction structure, roof structure, roof function, plish equipment area, building height and shading condition. Roof greening resource potential in urban built-up areas can be effectively assessed using the comprehensive assessment method that is based on the eight indexes. (2) The roof greening resources survey showed 201 construction projects in the central district of Shenzhen. 19 of these have implemented roof greening, among which 12 have been only partially greened. The roof greening ratio is only 9%. There are still many roofs in the idle state. Thus, the potential for roof greening is great in the study region as well as in Shenzhen and other Chinese cities. Among the remaining buildings, 51% are suitable for total or partial greening. The most important limiting factor for roof greening is building height. For policy makers, different approaches should be taken, such as mandatory and inducement measures to afford existing or under-construction buildings with suitable greening techniques. (3) Roof greening policies and regulations should be improved in China. We should learn from foreign countries with advanced experience to develop roof greening planning programs and management strategies that address national conditions. Urban roof greening should be included in construction of urban ecological structure and function. Development of resource evaluation, research on planning strategies, strengthening of management and related policy making are primary tasks for developing urban roof greening in our country.

#### 关键词

屋顶绿化; 资源分类; 潜力评估; 绿化策略; Shenzhen

关键词翻译: 屋顶绿化; 资源分类; 潜力评估; 绿化策略; 深圳

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1. **Surveys of nondomestic buildings in four English towns** (查看 Web of Science 核心合集 中的记录)  
作者: Brown, FE; Rickaby, PA; Bruha, HR; 等  
ENVIRONMENT AND PLANNING B-PLANNING & DESIGN 卷: 27 期: 1 页: 11-24 出版年: JAN 2000  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
2. 标题 [不可用]  
作者: Cantor S L  
Green roofs in sustainable landscape design. 出版年: 2008.  
被引频次: 2  
(来自 中国科学引文数据库)
3. **Green roofs; building energy savings and the potential for retrofit** (查看 Web of Science 核心合集 中的记录)  
作者: Castleton, H. F.; Stovin, V.; Beck, S. B. M.; 等  
ENERGY AND BUILDINGS 卷: 42 期: 10 页: 1582-1591 出版年: OCT 2010  
[查看全文](#) 被引频次: 3  
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4. **Green roof valuation: A probabilistic economic analysis of environmental benefits** (查看 Web of Science 核心合集 中的记录)  
作者: Clark, Corrie; Adriaens, Peter; Talbot, F. Brian  
ENVIRONMENTAL SCIENCE & TECHNOLOGY 卷: 42 期: 6 页: 2155-2161 出版年: MAR 15 2008  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
5. **Green roof vegetation for North American ecoregions: A literature review** (查看 Web of Science 核心合集 中的记录)  
作者: Ovorok, Bruce; Volder, Astrid  
LANDSCAPE AND URBAN PLANNING 卷: 96 期: 4 页: 197-213 出版年: JUN 30 2010  
[查看全文](#) 被引频次: 2  
(来自 中国科学引文数据库)
6. **Green roof energy and water related performance in the Mediterranean climate** (查看 Web of Science 核心合集 中的记录)  
作者: Fiorelli, R.; Palla, A.; Lanza, L. G.; 等  
BUILDING AND ENVIRONMENT 卷: 45 期: 8 页: 1890-1904 出版年: AUG 2010  
[查看全文](#) 被引频次: 3  
(来自 中国科学引文数据库)
7. **Media depth influences Sedum green roof establishment** (查看 BIOSIS Citation Index 中的记录)  
作者: Gether, Kristin L.; Rows, D. Bradley  
Urban Ecosystems 卷: 11 期: 4 页: 361-372 出版年: DEC 2008  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
8. **Solar radiation intensity influences extensive green roof plant communities** (查看 Web of Science 核心合集 中的记录)  
作者: Gether, Kristin L.; Rows, D. Bradley; Clegg, Bert M  
URBAN FORESTRY & URBAN GREENING 卷: 8 期: 4 页: 269-281 出版年: 2009  
[查看全文](#) 被引频次: 1  
(来自 中国科学引文数据库)
9. 标题 [不可用]  
作者: Kincaid D  
Adapting Buildings for Changing Uses: Guidelines for Change of Use Refurbishment. 出版年: 2003  
被引频次: 1  
(来自 中国科学引文数据库)

# China Urbanize

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1 - 1 (of 1) Page 1 of 1

View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1	CHINESE HUKOU SYSTEM, HUKOU SYSTEM, 50 PERCENT POPULATION RUBICON, CHINA ABOLISHING, CHINA URBANIZE	3	137	45.67	2009.7

1 - 1 (of 1) Page 1 of 1

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CORE PAPERS IN CHINESE HUKOU SYSTEM; HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE

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1 Citations: 65

RESEARCH FRONT WEB OF SCIENCE

**Title:** CHINA ABOLISHING THE HUKOU SYSTEM?  
**Authors:** CHAN KW; BUCKINGHAM W  
**Source:** [CHIN QUART](#)  
(195) 582-606 SEP 2008  
**Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.  
**Field:** [SOCIAL SCIENCES, GENERAL](#)

2 Citations: 63

RESEARCH FRONT WEB OF SCIENCE

**Title:** THE CHINESE HUKOU SYSTEM AT 50  
**Authors:** CHAN KW  
**Source:** [EURASIAN GEOGR ECON](#)  
50 (2) 197-221 MAR-APR 2009  
**Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.  
**Field:** [SOCIAL SCIENCES, GENERAL](#)

3 Citations: 9

RESEARCH FRONT WEB OF SCIENCE

**Title:** CROSSING THE 50 PERCENT POPULATION RUBICON: CAN CHINA URBANIZE TO PROSPERITY?  
**Authors:** CHAN KW  
**Source:** [EURASIAN GEOGR ECON](#)  
53 (1) 63-86 JAN-FEB 2012  
**Addresses:** Univ Washington, Dept Geog, Seattle, WA 98195 USA.

# 中国城市化 (China Urbanize) — 研究前沿

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View	Fronts	Papers	Citations	Citations Per Paper	Mean Year
1  	CHINESE HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE; CHINA'S RAPID URBANIZATION	4	118	29.50	2009.7

1 - 1 (of 1) Page 1 of 1

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# 中国城市化 ( China Urbanize ) —— 研究前沿

CORE PAPERS IN CHINESE HUKOU SYSTEM; 50 PERCENT POPULATION RUBICON; CHINA ABOLISHING; CHINA URBANIZE; CHINA'S RAPID URBANIZATION

Sorted by: Citations		SORT AGAIN	
1 - 4 (of 4)		Page 1 of 1	
1 Citations: 49		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	THE CHINESE HUKOU SYSTEM AT 50		
<b>Authors:</b>	<a href="#">CHAN KW</a>		
<b>Source:</b>	<a href="#">EURASIAN GEOGR ECON</a> 50 (2): 197-221 MAR-APR 2009		
<b>Addresses:</b>	<a href="#">Univ Washington</a> , Dept Geog, Seattle, WA 98195 USA.		
<b>Field:</b>	<a href="#">SOCIAL SCIENCES, GENERAL</a>		
2 Citations: 45		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	CHINA ABOLISHING THE HUKOU SYSTEM?		
<b>Authors:</b>	<a href="#">CHAN KW</a> ; BUCKINGHAM W		
<b>Source:</b>	<a href="#">CHIN QUART</a> (195): 582-606 SEP 2008		
<b>Addresses:</b>	<a href="#">Univ Washington</a> , Dept Geog, Seattle, WA 98195 USA.		
<b>Field:</b>	<a href="#">SOCIAL SCIENCES, GENERAL</a>		
3 Citations: 19		RESEARCH FRONT	WEB OF SCIENCE
<b>Title:</b>	URBAN VILLAGES UNDER CHINA'S RAPID URBANIZATION: UNREGULATED ASSETS AND TRANSITIONAL NEIGHBOURHOODS		

# 追踪学科前沿——研究前沿

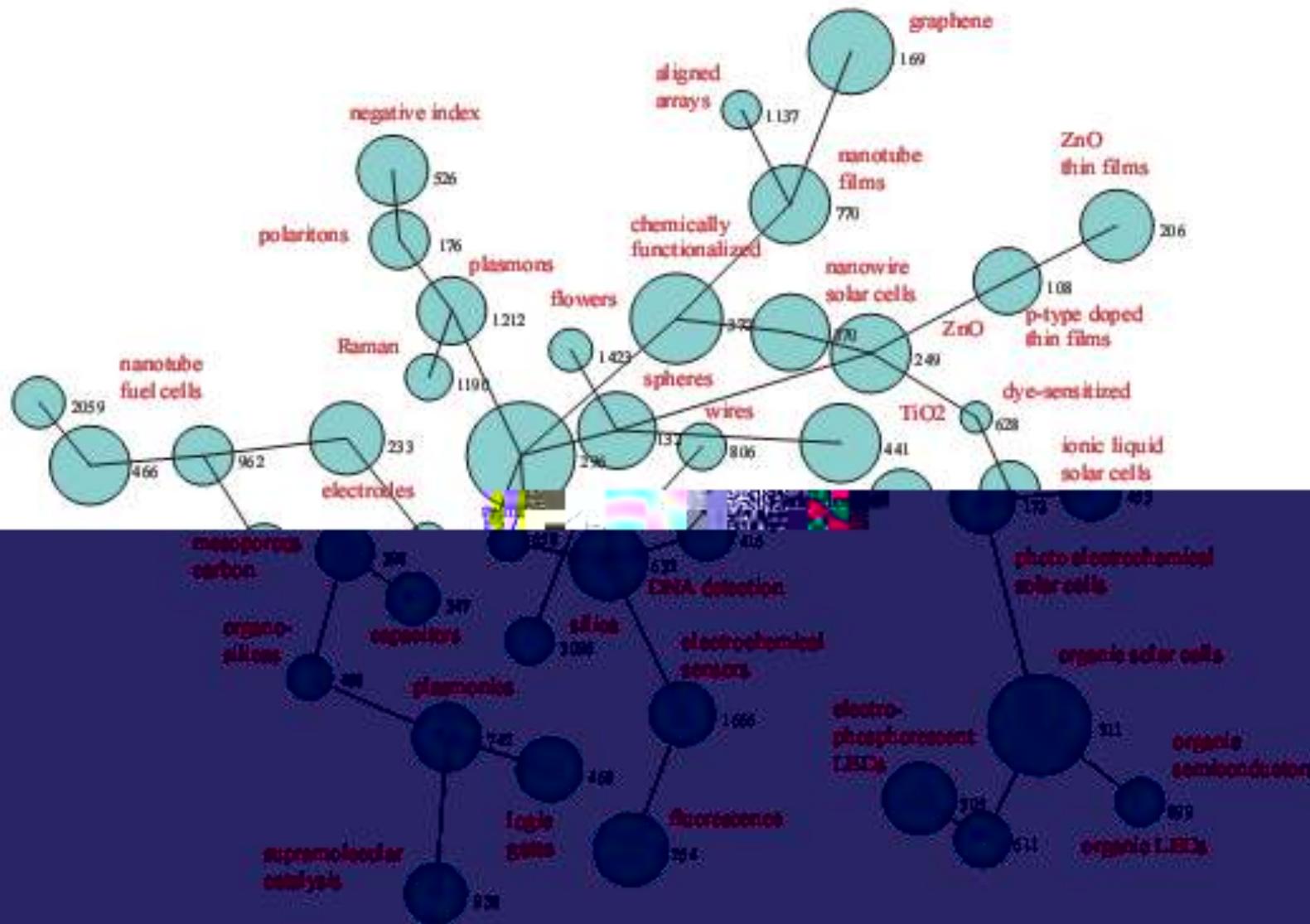




# 材料科学研究前沿

图4详细展示了纳米科学领域及其构成以及密切相关的研究前沿<sup>[1]</sup>。图中有一个分支显示了太阳能电池研究领域：不仅有染料敏化太阳能电池，还有有机太阳能电池——这是一种日益受到关注的替代方案。碳纳米管膜和石墨烯存在逻辑上的联系，纳米材料也出现

在其他领域，包括燃料电池领域和太阳能电池领域。其他非常活跃的研究专题是介孔碳、分子逻辑门、电化学传感器、超材料。位于关系图中央的一大块内容与各种材料的磁性质有关。



ESI

# 2014年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 1. 热点前沿

#### 1.1 经济学、心理学以及其他社会科学领域 Top 10 研究前沿发展态势

表 35 经济学、心理学以及其他社会科学领域 Top 10 研究前沿

排名	研究前沿	核心论文	被引频次	核心论文平均出版年
1	创新创业关键问题研究	49	1250	2011.4
2	实验心理学的统计验证和重复验证	20	1007	2011.3
3	南部非洲石器时代的人类居住和行为	25	1032	2011
4	家族企业管理与绩效研究	26	1001	2010.8
5	移动健康技术研究	20	1396	2010.7
6	基于人格特征分析的精神紊乱疾病诊断与统计研究 (DSM -5)	12	881	2010.7
7	环境服务及其支付问题与生态景观可持续性研究	29	1705	2010.6
8	早期智人的起源和演变	29	1149	2010.6
9	互联网社交的舆论和意见领袖形成机制及其商业应用	20	968	2010.5
10	多区域投入产出分析工具等结构分解分析方法在温室气体排放研究中的应用	44	2258	2010.3

# 2013年研究前沿

## ——自然科学和社会科学的前100个探索领域

经济学，心理学以及其他社会科学

排名	研究前沿	核心文献	引用次数	核心文献平均出版年
1	城市政策变化和全球治理问题	42	898	2010.4
2	家族企业的创业精神和绩效	30	1,051	2009.9
3	工作记忆的训练与可塑性	21	1,177	2009.8
4	以权责发生制为基础的收入管理和会计违规	17	1,148	2009.8
5	以病人为中心的医疗决策、患者参与和最佳界定	32	1,240	2009.7
6	社会学习策略和决策	39	3,642	2009.6
7	二氧化碳排放的投入产出分析	49	1,630	2009.6
8	对再认启发的研究	28	1,280	2009.6
9	消费者在线评论，社交网络，和在线显示的广告	37	1,609	2009.5
10	金融危机、流动性，和公司治理	37	1,898	2009.4

来源: 汤森路透 Essential Science Indicators

2014年研究前沿

——自然科学和社会科学的前100个探索领域

# 2013年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 化学与材料科学

排名	研究前沿	核心文献	引用次数	核心文献平均出版年
1	优化的可见光光催化制氢	43	1,620	2011.2
2	钌或铑催化的氧化的 C-H 键激活	46	1,900	2011.0
3	聚集诱导发光的特征和化合物	47	1,989	2010.9
4	有机合成中的光致氧化还原催化	32	1,945	2010.5
5	手性膦小分子催化不对称反应	35	1,927	2010.5
6	纳米孔 DNA 测序	33	1,914	2010.5
7	小分子溶液加工的体异质结型太阳能电池	31	1,841	2010.5
8	氮掺杂石墨烯	26	2,364	2010.4
9	卷绕加工的聚合物太阳能电池	35	3,969	2010.3
10	硅纳米线组成锂离子电池阳极材料	50	2,896	2010.3

# 2014年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 1. 热点前沿

#### 1.1 数学、计算机科学与工程领域 Top 10 研究前沿发展态势

表 31 数学、计算机科学与工程领域 Top 10 研究前沿

排名	研究前沿	核心论文	被引频次	核心论文平均出版年
1	基于粒子群算法的搜索优化	41	961	2011.5
2	生物柴油燃料发动机使用性能与排放物监测	23	919	2011.5
3	弹性应变梯度理论	37	1174	2011.4
4	模糊李亚普诺夫方法	36	1116	2011.2
5	G-度量空间中的偶合不动点定理	30	985	2011.1
6	微分方程的应用	34	869	2011.1
7	电力电子及驱动的预测控制	35	1167	2011
8	钒氧化还原液流电池	22	1218	2010.9
9	锂离子电池用大容量电极	16	1004	2010.7
10	通过耗散理论研究实现换热器优化设计	26	942	2010.7

# 2013年研究前沿

## ——自然科学和社会科学的前100个探索领域

### 数学，计算机科学与工程

排名	研究前沿	核心文献	引用次数	核心文献平均出版年
1	高能可充电锂-空气电池	49	2,006	2010.8
2	非线性分数阶微分方程的边界值问题	47	1,172	2010.2
3	生物柴油燃料燃烧的化学动力学反应机制	49	1,555	2010.0
4	非局部铁摩辛柯梁理论和碳纳米管	39	1,480	2009.8
5	受约束的全变分图像去噪与恢复	49	2,741	2009.7
6	石墨烯晶体管	16	2,270	2009.7
7	分析新一代DNA测序数据	6	2,025	2009.6
8	纳米流体传热	40	1,928	2009.6
9	二氧化碳捕获中的钙循环过程	36	1,562	2009.6
10	差分进化算法和Memetic计算	30	1,351	2009.6

来源: 汤森路透 Essential Science Indicators

**ESI**研究前沿的数据揭示从事相关的科研探索的研究人员间的联系，即使从这些研究人员的背景，可能看不出他们属于同一个“无形学院”。

研究前沿的分析提供了一个独特的视角来揭示科学研究的脉络。

研究前沿的分析不依赖于对文献的人工索引和分类，而是基于研究人员在相互引用中形成的知识之间和人之间的联络。

研究前沿的数据连续记录了分散的研究领域的发生、汇聚、发展、萎缩、消散和形成分支而后组织成为更新的研究活动节点。



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