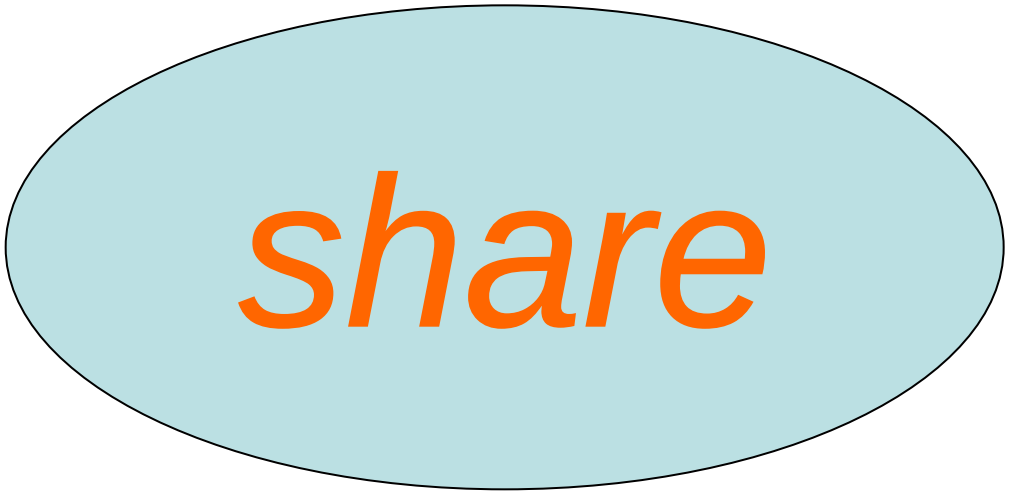
说说期刊那些事



交流提纲

- **1 期刊的发展历史和分类：**
- **2 期刊投稿的影响因素：**

  影响因子，读者范围，审稿时间，审稿制度…
- **3菜鸟发表处女作的投稿期刊建议：**

世界上最早的期刊

- 世界上最早的期刊，也是最早的科学技术期刊有两种：一为1665年1月5日由法国议院参事戴·萨罗律师(Denys de Sallo)创办于巴黎的《学者杂志》(*Journal des Scavans*)；二为1665年3月6日由英国皇家学会秘书亨利·奥尔登伯格(Henry Oldenburg)创办于伦敦的《哲学汇刊——世界各地有创造才能者当前的探索、研究和劳动的若干总结》(*Philosophical Transactions of the Royal Society*,1776年后改为《英国皇家学会会刊》)。

- 《学者杂志》是在法国高级官员科尔贝的支持下创办的，它是一份文学与科学兼顾的期刊，首次采用Journal一词作为刊名，其办刊宗旨为：“满足我们的好奇心和不用花费多大气力就能学到东西的一种手段”。其内容主要是报道法国和其他国家出版的各类图书，包括新书出版动态、目次和文摘，也发表一些解释自然现象的物理、化学和解剖学实验，以及气象观测记录数据等。可贵的是，这份期刊创造了世界上第一个由科学家组成的编委会，以协助编辑评审稿件并形成了期刊同仁评审体制的雏形。《学者杂志》并未延续下来，创办不久即以干涉法律与神学事务而被查禁，而时隔两个月之后创办的《哲学汇刊》却一直延续至今，成为世界上连续办刊时间最长的学术期刊。

世界权威学术杂志之——

- **英国《自然》周刊简介(Nature)** www.nature.com

- 《Nature》周刊是世界上最早的国际性科技期刊，自从1869年在达尔文支持下创刊以来，始终如一地报道和评论全球科技领域里最重要的突破，其办刊宗旨是“**将科学发现的重要结果介绍给公众…，让公众尽早知道全世界自然知识的每一分支中取得的所有进展**”。《自然》曾发表过的重要研究论文有：X-射线，中子，电子的发现，全息术的发明，DNA的结构，克隆羊多利等。现今由The Nature Publishing Group出版，发展有多种姊妹刊。

- **美国《科学》周刊简介**www.sciencemag.org
- 《科学》周刊由托马斯·爱迪生支持创办于1880年，自1900年起成为美国科学促进会（AAAS）的官方刊物。杂志的早期以报告物理类科学研究著称，有无线电报技术、新的化学元素、以及怀特兄弟飞行试验的最早报道等内容。后来促进会对杂志社进行宏观监控,主要报导科学新闻、研究成果和科研发展趋势, 其办刊宗旨是“**发展科学，服务社会**”。《科学》周刊严格的同行评议过程确定了该杂志作为有声望的、可信的新科学信息的来源的地位。

核心期刊概念

- 1931年著名文献学家布拉德福首先揭示了文献集中与分散规律，发现某时期某学科1/3的论文刊登在 3.2%的期刊上；1967年联合国教科文组织研究了二次文献在期刊上的分布，发现75%的文献出现在10%的期刊中；1971年，SCI的创始人加菲尔德统计了参考文献在期刊上的分布情况，发现24%的引文出现在1.25%的期刊上，等等，这些研究都表明期刊存在“核心效应”，从而衍生了“核心期刊”的概念。

核心期刊

——某学科（或某领域）的核心期刊，是指那些发表该学科（或该领域）论文较多、使用率（含被引率、摘转率和流通率）较高、学术影响较大的期刊。

目前：国际三大索引：

- SCI《科学引文索引》，Science Citation Index
- EI《工程索引》，The Engineering Index
- CPCI [ISTP] 《科技会议录索引》，Conference Proceedings Citation Index (Index to Scientific & Technical Proceedings)

- 国内有7大核心期刊（或来源期刊）遴选体系：
- 北京大学图书馆“中文核心期刊”
- 南京大学“中文社会科学引文索引（CSSCI）来源期刊”
- 中国科学技术信息研究所“中国科技论文统计源期刊”（又称“中国科技核心期刊”）
- 中国社会科学院文献信息中心“中国人文社会科学核心期刊”
- 中国科学院文献情报中心“中国科学引文数据库（CSCD）来源期刊”
- 中国人文社会科学学报学会“中国人文社科学报核心期刊”
- 万方数据股份有限公司正在建设中的“中国核心期刊遴选数据库”。

Is SCI 《Science Citation Index》 a journal?

A: yes

B: no

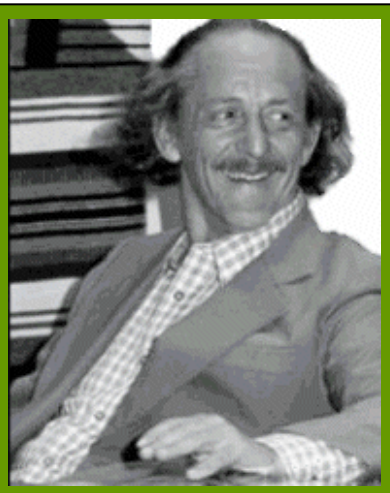
C: I don't know

SCI是美国《科学引文索引》的英文简称，其全称为：Science Citation Index,，创刊于1961年，它是根据现代情报学家加菲尔德(Engene Garfield) 1953年提出的引文思想而创立的。

1963年出版 *Science Citation Index*

1973年出版 *Social Sciences Citation Index*

1978年出版 *Arts & Humanities Citation Index*



Dr. Eugene Garfield

Founder & Chairman Emeritus ISI, Thomson Scientific

"Our ultimate goal is to extend our retrospective coverage of the scientific literature back to the twentieth century. The Century of Science initiative makes that dream come true."

常见问题解答：SCI和SCIE是什么关系？

- SCI光盘版与SCI网络版收录标准完全一致，区别：载体的不同
- SCI载体的发展是随着科学技术手段的进步不断发展的：

  SCI纸本期刊 ⟶ SCI光盘版 ⟶ SCI网络版

- SCI的期刊收录是一个动态变化的过程，会不断收入新学科新地域等的优秀期刊，并持续跟踪和监测，以保证其始终如一的高水准。而光盘版的容量有限，只能兼顾地域性地收入3000多种。
- 查看当前被SCI收录的期刊列表
  - http://science.thomsonreuters.com/mjl/

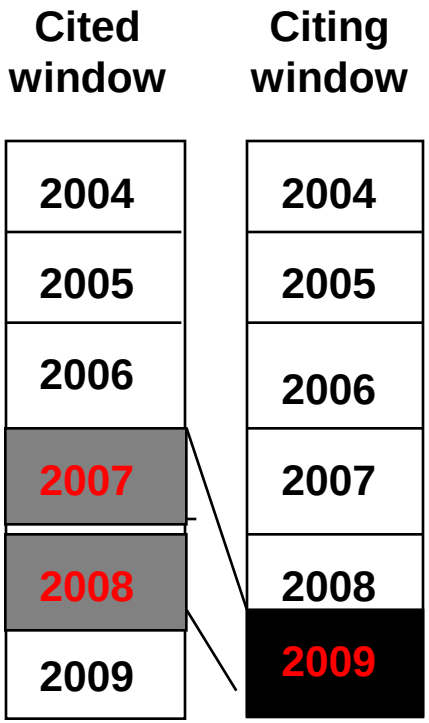
交流提纲

- **1 期刊的发展历史和分类：**
- **2 期刊投稿的影响因素：**

  影响因子，读者范围，审稿时间，审稿制度…
- **3菜鸟发表处女作的投稿期刊建议：**

Impact Factor (IF)

$$\text{Impact Factor}_{2009} = \frac{\text{Number of citations in 2009 to articles published in 2007 and 2008}}{\text{Number of } \textit{source items} \text{ published in 2007 and 2008}}$$



Example

Journal of … publishes 75 articles in 2008 and 83 articles in 2007.

In 2009 it receives a total of 344 citations to these articles in all the other published journals.

The journal's Impact Factor for 2009 is
344 ÷ (75 + 83) = 2.18

What is the highest Journal Impact Factor Today?

CA: A Cancer Journal for Clinicians 94.333

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Journal Citation Reports®

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Journal Citation Reports®

Information for New Users

Select a JCR edition and year:	Select an option:
JCR Science Edition 2010	View a group of journals by Subject Category Search for a specific journal View all journals

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2010 JCR Science Edition

Journal Summary List

Journals from: All Journals

Sorted by: Impact Factor SORT AGAIN

Journal Title Changes

Journals 1 - 20 (of 8073)

[1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10]

Page 1 of 404

MARK ALL UPDATE MARKED LIST

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data						*Eigenfactor*™ Metrics	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	*Eigenfactor*™ Score	*Article Influence*™ Score
☐	1	CA-CANCER J CLIN	0007-9235	9804	94.333	70.245	8.667	18	3.8	0.04893	24.729
☐	2	ACTA CRYSTALLOGR A	0108-7673	13946	54.333	24.717	0.629	70	6.3	0.04635	8.563
☐	3	NEW ENGL J MED	0028-4793	227679	53.486	52.363	10.675	345	7.5	0.68835	21.349
☐	4	REV MOD PHYS	0034-6861	29872	51.695	48.621	8.219	73	>10.0	0.10706	31.178
☐	5	ANNU REV IMMUNOL	0732-0582	16100	49.271	46.688	7.682	22	7.6	0.06241	25.132

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statistical data

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2010 JCR Science Edition

Journal: CA-A CANCER JOURNAL FOR CLINICIANS

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
☐	CA-CANCER J CLIN	0007-9235	9804	94.333	70.245	8.667	18	3.8	5.6

Cited Journal | Citing Journal | Source Data | Journal Self Cites

CITED JOURNAL DATA | CITING JOURNAL DATA | IMPACT FACTOR TREND | RELATED JOURNALS

Journal Information

Full Journal Title: CA-A CANCER JOURNAL FOR CLINICIANS
ISO Abbrev. Title: CA-Cancer J. Clin.
JCR Abbrev. Title: CA-CANCER J CLIN
ISSN: 0007-9235
Issues/Year: 6
Language: ENGLISH
Journal Country/Territory: UNITED STATES
Publisher: WILEY-BLACKWELL
Publisher Address: COMMERCE PLACE, 350 MAIN ST, MALDEN 02148, MA,
Subject Categories: ONCOLOGY

Eigenfactor™ Metrics
Eigenfactor™ Score
0.04893
Article Influence™ Score
24.729

Additional Links
National Library of China GO

Journal Rank in Categories:

Journal Impact Factor

Cites in 2010 to items published in:	2009 = 2009	Number of items published in:	2009 = 23
	2008 = 1953		2008 = 19
	Sum: 3962		Sum: 42

Calculation: Cites to recent items 3962 = **94.333**
Number of recent items 42

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Journal Ranking

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Journal Citation Reports®

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2010 JCR Science Edition

Rank in Category: CA-A CANCER JOURNAL FOR CLINICIANS

Journal Ranking

For **2010**, the journal **CA-A CANCER JOURNAL FOR CLINICIANS** has an Impact Factor of **94.333**.

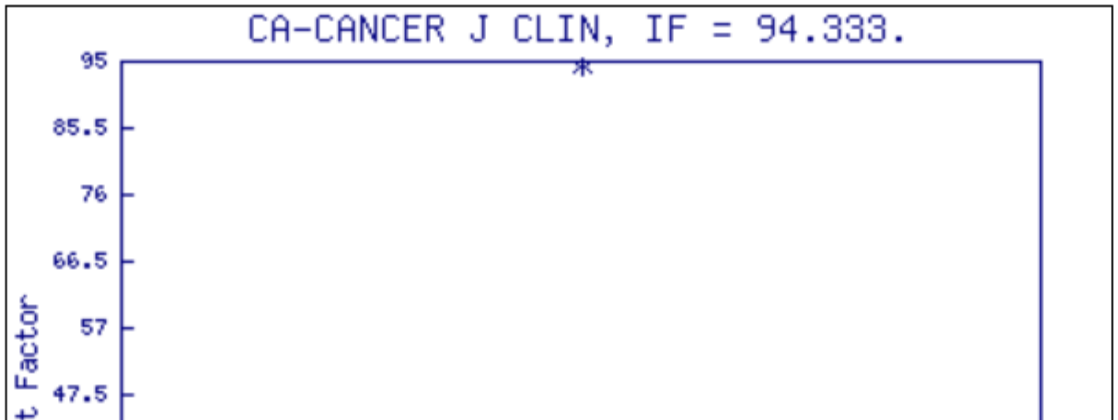
This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
ONCOLOGY	185	1	Q1

Category Box Plot

For **2010**, the journal **CA-A CANCER JOURNAL FOR CLINICIANS** has an Impact Factor of **94.333**.

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.



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Information for New Users

Select a JCR edition and year:	Select an option:
JCR Science Edition 2010	View a group of journals by Subject Category Search for a specific journal View all journals

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Journal Citation Reports

Journal Search

The Journal Search page allows you to search for specific titles.

1. Select a search option from the **Search by** menu. The options are: Full Journal Title, Abbreviated Journal Title, Title Word, and ISSN.
2. Enter a title, a partial title, a title word, or an ISSN. Capitalization does not affect your search.
3. Click the **Search** button.

Search Examples:

Full Journal Title: *Enter* **JOURNAL OF CELLULAR PHYSIOLOGY** *or* **JOURNAL OF CELL*** *(more examples)*

Abbreviated Journal Title: *Enter* **J CELL PHYSIOL** *or* **J CELL *** *(more examples)*

Title Word: *Enter* **CELLULAR** *or* **CELL*** *(more examples)*

ISSN: *Enter* **0021-9541** *or other ISSN (more examples)*

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Full Journal Title

Enter a journal title or a partial title with a wildcard. As an alternative, click **view list of full journal titles**, and then cut and paste a title from the list.

The asterisk (*)wildcard represents any number of characters, including no characters. At least one character is required before the asterisk.

Examples:

- **Journal of Mathematical Chemistry** matches *Journal of Mathematical Chemistry*.
- **Journal of Math*** matches *Journal of Mathematical Biology*, *Journal of Mathematical Chemistry*, *Journal of Mathematical Economics*, etc.

Abbreviated Journal Title

Enter an abbreviated journal title. The abbreviated journal title must be the JCR abbreviated title, not the ISO abbreviated title. You may use the asterisk wildcard to truncate abbreviated titles.

Examples:

- **Mol Mater** matches *Mol Mater* (*Molecular Materials*).
- **Mol*** finds *Mol Biol Cell* (*Molecular Biology of the Cell*), *Mol Cell Biol* (*Molecular and Cellular Biology*), *Mol Mater* (*Molecular Materials*), etc.
- **Mol Cancer*** finds *Mol Cancer Res* (*Molecular Cancer Research*) and *Mol Cancer Ther* (*Molecular Cancer Therapeutics*).

Title Word

Find journals whose title contains the word you enter. Truncate to find plurals and variant spellings.

Examples:

- **Ocean** finds *Applied Ocean Research*, *China Ocean Engineering*, *Ocean & Coastal Management*, etc.
- **Ocean*** finds the same titles that **Ocean** finds, as well as *Fish Oceanography*, *Oceanology*, and other titles that contains a word beginning with *Ocean*.
- **Ocean Eng*** finds *China Ocean Engineering*, *Ocean Engineering*, and *Journal of Waterway Port Coastal and Ocean Engineering-ASCE*.

ISSN

Find the journal whose ISSN matches exactly the number you enter. Keep in mind that a journal may have two ISSNs if it is published as printed journal and an electronic journal.

Examples:

- **0248-4900** finds the journal whose ISSN is 0248-4900.
- **02484900** finds the journal whose ISSN is 0248-4900.

Journal Title Abbreviations

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Information for New Users

Select a JCR edition and year:	Select an option:
JCR Science Edition 2010	View a group of journals by Subject Category Search for a specific journal View all journals

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This product is best viewed in 800x600 or higher resolution

NOTICES

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WELCOME HELP

Subject Category Selection

1) Select one or more categories from the list.

(How to select more than one)

CELL & TISSUE ENGINEERING
CELL BIOLOGY
CHEMISTRY, ANALYTICAL
CHEMISTRY, APPLIED
CHEMISTRY, INORGANIC & NUCLEAR
CHEMISTRY, MEDICINAL
CHEMISTRY, MULTIDISCIPLINARY
CHEMISTRY, ORGANIC
CHEMISTRY, PHYSICAL

2) Select to view Journal data or aggregate Category data.

View Journal Data - sort by: Journal Title

View Category Data - sort by: Category Title

SUBMIT

Journal Summary List

journal list

Journal Title Changes

Journals from: subject categories CHEMISTRY, MULTIDISCIPLINARY VIEW CATEGORY SUMMARY LIST

Sorted by: Journal Title SORT AGAIN

Sort again

Journals 61 - 80 (of 147)

[5 | 6 | 7 | 8]

MARK ALL UPDATE MARKED LIST

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data						Eigenfactor™ Metrics	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
☐	61	HETEROATOM CHEM	1042-7163	1186	1.044	1.097	0.247	73	6.7	0.00228	0.247
☐	62	HYLE	1433-5158	27	0.000	0.300	0.000	6		0.00003	0.054
☐	63	INDIAN J CHEM A	0376-4710	1928	0.920	0.671	0.149	87	>10.0	0.00215	0.145
☐	64	INT J MOL SCI	1422-0067	1652	2.279	2.118	0.290	328	2.3	0.00655	0.537
☐	65	IRAN J CHEM CHEM ENG	1021-9986	86	0.124	0.196				0.00020	0.043
☐	66	ISR J CHEM	0021-2148	883	0.794	0.716	0.185	54	>10.0	0.00102	0.259
☐	67	J AM CHEM SOC	0002-7863	369216	9.023	8.981	1.716	3139	7.4	0.86367	2.753
☐	68	J BRAZIL CHEM SOC	0103-5053	2795	1.343	1.444	0.226	297	5.1	0.00662	0.306
☐	69	J CHEM EDUC	0021-9584	5071	0.571	0.673	0.240	296	>10.0	0.00383	0.121
☐	70	J CHEM ENG DATA	0021-9568	13096	2.089	2.298	0.443	1021	7.0	0.02216	0.489

WELCOME HELP 2010 JCR Sci

Journal Summary List

Journal

Journals from: subject categories CHEMISTRY, MULTIDISCIPLINARY VIEW CATEGORY SUMMARY LIS

journal list

Sorted by: Impact Factor SORT AGAIN

Journals 1 - 20 (of 147) [1 | 2 | 3 | 4 | 5 | 6 | 7 | 8]

MARK ALL UPDATE MARKED LIST

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data						Eigenfactor™ Metrics	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence Score
☐	1	CHEM REV	0009-2665	88391	33.036	36.438	8.362	188	8.2	0.19901	12
☐	2	CHEM SOC REV	0306-0012	24951	26.585	24.643	4.128	297	3.1	0.10804	7
☐	3	ACCOUNTS CHEM RES	0001-4842	33869	21.852	20.330	3.235	149	7.4	0.09692	7
☐	4	NAT CHEM	1755-4330	2041	17.927	17.927	3.951	143	1.3	0.01299	8
☐	5	ANGEW CHEM INT EDIT	1433-7851	178613	12.730	12.050	2.409	1652	5.2	0.53031	3
☐	6	NANO LETT	1530-6984	61066	12.219	12.832	2.239	855	3.9	0.31692	4
☐	7	NANO TODAY	1748-0132	1279	11.750	13.396	1.459	37	2.8	0.00829	4
☐	8	ADV MATER	0935-9648	68115	10.880	11.306	2.097	777	5.2	0.24245	3
☐	9	ACS NANO	1936-0851	9914	9.865	9.962	1.478	986	1.8	0.05575	3
☐	10	ENERG ENVIRON SCI	1754-5692	1766	9.488	9.488	0.944	198	1.7	0.00941	2
☐	11	J AM CHEM SOC	0002-7863	369216	9.023	8.981	1.716	3139	7.4	0.86367	2

A special journal

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WELCOME | HELP | RETURN TO LIST | PREVIOUS JOURNAL | NEXT JOURNAL

2010 JCR Science Edition

Journal: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
☐	J AM CHEM SOC	0002-7863	369216	9.023	8.981	1.716	3139	7.4	6.3

Cited Journal | Citing Journal | Source Data | Journal Self Cites

CITED JOURNAL DATA | CITING JOURNAL DATA | IMPACT FACTOR TREND | RELATED JOURNALS

Journal Information

Full Journal Title: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
ISO Abbrev. Title: J. Am. Chem. Soc.
JCR Abbrev. Title: J AM CHEM SOC
ISSN: 0002-7863
Issues/Year: 51
Language: ENGLISH
Journal Country/Territory: UNITED STATES
Publisher: AMER CHEMICAL SOC
Publisher Address: 1155 16TH ST, NW, WASHINGTON, DC 20036
Subject Categories: CHEMISTRY, MULTIDISCIPLINARY SCOPE NOTE

VIEW JOURNAL SUMMARY LIST | VIEW CATEGORY DATA

Eigenfactor™ Metrics
Eigenfactor™ Score
0.86367
Article Influence™ Score
2.753

Additional Links
National Library of China GO

Journal Rank in Categories: JOURNAL RANKING

Journal Impact Factor

Cites in 2010 to items published in: 2009 =26679
2008 =32636
Sum: 59315

Number of items published in: 2009 =3332
2008 =3242
Sum: 6574

Calculation: Cites to recent items 59315 **=9.023**

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WELCOME | HELP | RETURN TO JOURNAL

2010 JCR Science Edi

Rank in Category: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Journal Ranking

For **2010**, the journal **JOURNAL OF THE AMERICAN CHEMICAL SOCIETY** has an Impact Factor of **9.023**.

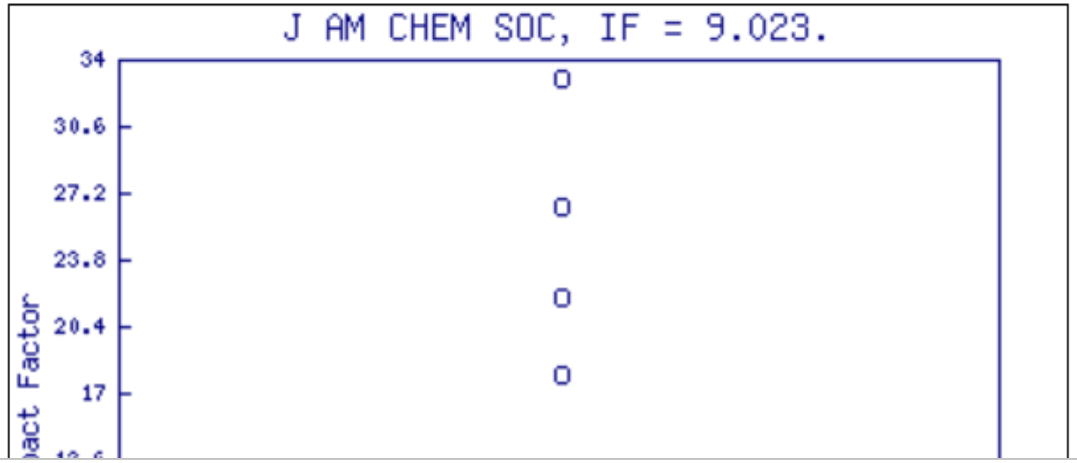
This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
CHEMISTRY, MULTIDISCIPLINARY	147	11	Q1

Category Box Plot

For **2010**, the journal **JOURNAL OF THE AMERICAN CHEMICAL SOCIETY** has an Impact Factor of **9.023**.

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.



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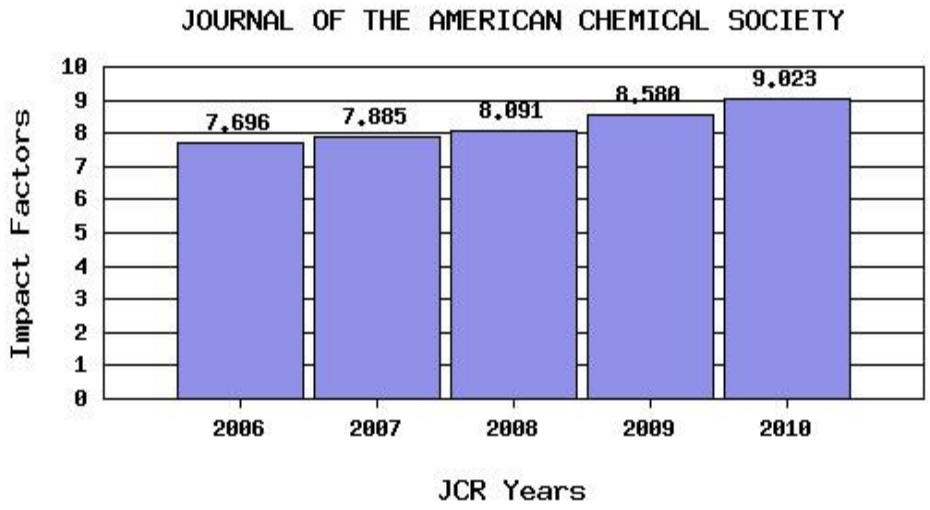
2010 JCR Science Editio

Impact Factor Trend Graph: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Click on the "Return to Journal" button to view the full journal information.



Impact Factor -- see below for calculations

The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year. The impact factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field. For more bibliometric data and information on this and other journal titles click on the "Return to Journal" button.

NOTE: Title changes and coverage changes may result in no impact factor for one or more years in the above graph.

2010 Impact Factor

Cites in 2010 to articles published in:	2009 = 26679	Number of articles published in:	2009 = 3332
	2008 = 32636		2008 = 3242
	Sum: 59315		Sum: 6574

Calculation: Cites to recent articles 59315 = **9.023**
Number of recent articles 6574

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journal list

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Related Journals: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Journal Relatedness is based on the strength of cited and citing relationships.
The table below lists journal(s) that likely cover topics related to those covered in J AM CHEM SOC.
More information about these calculations.

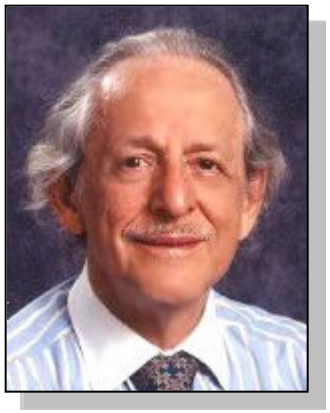
Sorted by: R max SORT AGAIN

Journals by: R max
- R max
- Related journal
- R journal to j
- R j to journal

[1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10]

Page 1 of 53

		Relatedness (R)	
	Related journal (j)	J AM CHEM SOC to j	j to J AM CHEM SOC
201.55	ADV ORGANOMET CHEM	201.55	38.43
128.20	CHEM REV	128.20	25.12
118.75	ADV PHYS ORG CHEM	27.28	118.75
86.19	ACCOUNTS CHEM RES	86.19	35.28
77.15	ALDRICHIM ACTA	76.38	77.15
61.29	ADV CATAL	61.29	5.84
55.93	ANNU REV PHYS CHEM	55.93	11.78
53.93	J AM CHEM SOC	53.93	53.93
52.03	ANNU REV BIOCHEM	52.03	8.46
49.05	J BIOMOL NMR	38.94	49.05
48.26	ORG LETT	11.93	48.26
46.68	J PHYS ORG CHEM	3.16	46.68
46.54	J SYN ORG CHEM JPN	0.93	46.54
45.21	COMMENT INORG CHEM	7.49	45.21
44.97	NAT CHEM	11.28	44.97
44.58	CHEM SCI	1.00	44.58
42.21	CHEM COMMUN	8.89	42.21
41.76	J ORG CHEM	17.44	41.76



I first mentioned the idea of an impact factor in 1955. At that time it did not occur to me that impact would one day become the subject of widespread controversy. …… It has been used constructively **to select the best journals for *Current Contents*® and the *Science Citation Index*,®** and for library collections. However, it has been **misused in many situations, especially in the evaluation of individual researchers.**

"The use of JCR and JPI in measuring short and long term journal impact". Presented by Eugene Garfield at Council of Scientific Editors Annual Meeting held in May 9, 2000.

http://www.garfield.library.upenn.edu/papers/cseimpactfactor05092000.html

J|A|C|S COMMUNICATIONS

Published on Web 09/20/2010

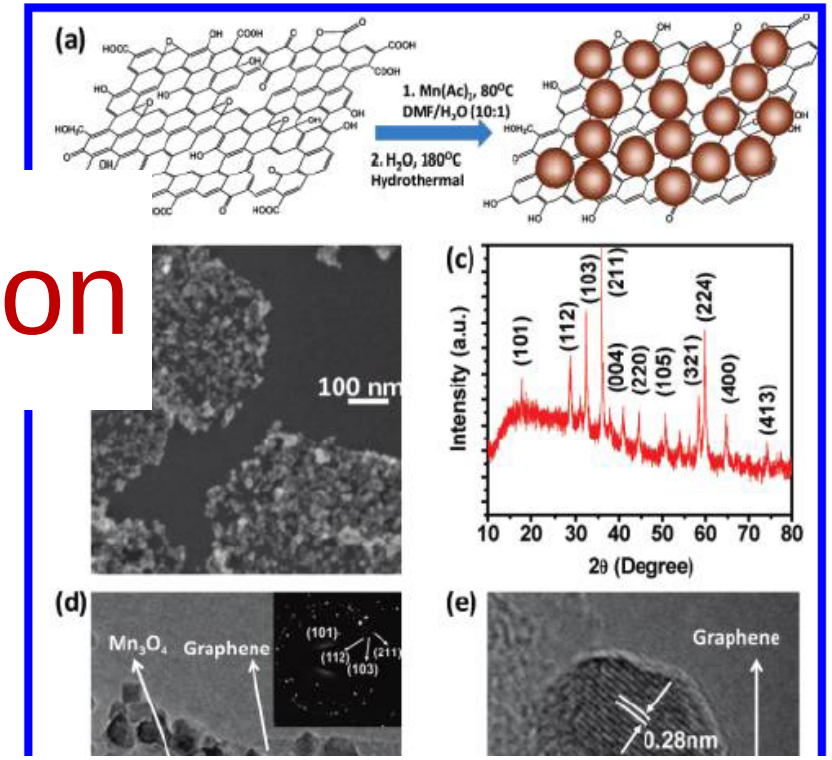
Mn_3O_4–Graphene Hybrid as a High-Capacity Anode Material for Lithium Ion Batteries

Hailiang Wang,[†,§] Li-Feng Cui,[‡,§] Yuan Yang,[‡] Hernan Sanchez Casalongue,[†] Joshua Tucker Robinson,[†] Yongye Liang,[†] Yi Cui,[*,‡] and Hongjie Dai[*,†]

Department of Chemistry and Laboratory for Advanced Materials and Department of Materials Science and Engineering, Stanford University, Stanford, California 94305

Received June 17, 2010; E-mail: hdai@stanford.edu; yicui@stanford.edu

Abstract: We developed two-step solution-phase reactions to form hybrid materials of Mn_3O_4 nanoparticles on reduced graphene oxide (RGO) sheets for lithium ion battery applications. Selective growth of Mn_3O_4 nanoparticles on RGO sheets, in contrast to free between the graphene substrates and the Mn_3O_4 nanoparticles grown atop. The Mn_3O_4/RGO hybrid could be a promising candidate material for a high-capacity, low-cost, and environmentally friendly anode for lithium ion batteries. Our growth-on-graphene approach should offer a new technique for the design and synthesis of battery electrodes based on highly insulating materials.



Speed of Publication

Graphene Anchored with Co_3O_4 Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance

Zhong-Shuai Wu, Wencai Ren,* Lei Wen, Libo Gao, Jinping Zhao, Zongping Chen, Guangmin Zhou, Feng Li, and Hui-Ming Cheng*

Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, 72 Wenhua Road, Shenyang 110016, People's Republic of China

ABSTRACT We report a facile strategy to synthesize the nanocomposite of Co_3O_4, conducting graphene as an advanced anode material for high-performance lithium-io nanoparticles obtained are 10–30 nm in size and homogeneously anchor on graphe the neighboring sheets separated. This Co_3O_4/graphene nanocomposite displays supe with large reversible capacity, excellent cyclic performance, and good rate capability, of the anchoring of nanoparticles on graphene sheets for maximum utilization of e nanoparticles and graphene for energy storage applications in high-performance lithi

KEYWORDS: graphene · cobalt oxide · nanomaterial · anode · lithium-ion batteries · cyclic performance

Lithium-ion batteries (LIBs) are the power source of choice not only for popular consumer electronics but also for upcoming electric vehicles.[1−3] So far, various materials, such as graphitic/non-graphitic carbon,[4] transition-metal oxides (SnO_2,[5] TiO_2,[6] Fe_2O_3,[7] Co_3O_4,[8−10] NiO,[11] MnO_2,[12] MoO_3,[13] WO_3[14]), chalcogenides (TiS_2),[15,16] nitrides,[17] polymers,[18] lithium alloys (Si, Sn, Al, Sb)/multinary alloys,[19−21] and their composites,[22−26] have been exploited as the anode materials of LIBs. Among them, Co_3O_4 attracts extensive interest for LIBs due to its high theoretical capacity (890 mAh g^{-1}), more than two times larger than that of graphite (372 mAh g^{-1}), which are expected to meet the requirements of future energy storage systems.[8−10] However, its large volume expansion/contraction and severe particle aggregation associated with the Li^+ insertion and extraction process lead to electrode pulverization and loss of interparticle contact and, consequently, result in a large irreversible capacity loss and poor cycling stability.[27,28] A variety of appealing strategies have been utilized to solve these intractable problems, including the use of carbon-based

advanced anode material in LIBs[35−45] due to its superior electrical conductivity, high surface-to-volume ratio, ultrathin thickness, structural flexibility, and chemical stability.[46−50] It has been demonstrated that graphene-based anode materials have large initial discharge capacity (600−2042 mAh g^{-1}) and reversible capacity (540−1264 mAh g^{-1}), although they suffer from large irreversible capacity, low initial Coulombic efficiency, and fast capacity fading.[36−40] More importantly, graphene can also be used in composites with metallic or oxide NPs to improve the electrochemical performance of these

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ficiency, achieving long cycling life and good rate capability of Co_3O_4 electrode material still remains a great challenge.

Graphene, a new two-dimensional carbon material, is recently expected to be an

sion/contraction and aggregation of NPs during Li charge/discharge process.[40] Meanwhile, the anchoring of NPs on graphene can effectively reduce the degree of restacking of graphene sheets and consequently

and accepted May 02, 2010.

Published online May 10, 2010. 10.1021/nn100740x

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Electrochimica Acta 56 (2010) 834–840

Contents lists available at ScienceDirect

Electrochimica Acta

journal homepage: www.elsevier.com/locate/electacta

Enhanced cycling performance of Fe_3O_4–graphene nanocomposite as an anode material for lithium-ion batteries

Peichao Lian[a], Xuefeng Zhu[b], Hongfa Xiang[a], Zhong Li[a], Weishen Yang[b], Haihui Wang[a,*]

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[b] State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

ARTICLE INFO

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Keywords:
Graphene sheets
Fe_3O_4 nanoparticles
Nanocomposite
Anode material
Lithium-ion batteries

ABSTRACT

Fe_3O_4–graphene nanocomposite was prepared by a gas/liquid interface reaction. The structure and morphology of the Fe_3O_4–graphene nanocomposite were characterized by X-ray diffraction, scanning electron microscopy and high-resolution transmission electron microscopy. The electrochemical performances were evaluated in coin-type cells. Electrochemical tests show that the Fe_3O_4–22.7 wt.% graphene nanocomposite exhibits much higher capacity retention with a large reversible specific capacity of 1048 mAh g^{-1} (99% of the initial reversible specific capacity) at the 90th cycle in comparison with that of the bare Fe_3O_4 nanoparticles (only 226 mAh g^{-1} at the 34th cycle). The enhanced cycling performance can be attributed to the facts that the graphene sheets distributed between the Fe_3O_4 nanoparticles can prevent the aggregation of the Fe_3O_4 nanoparticles, and the Fe_3O_4–graphene nanocomposite can provide buffering spaces against the volume changes of Fe_3O_4 nanoparticles during electrochemical cycling.
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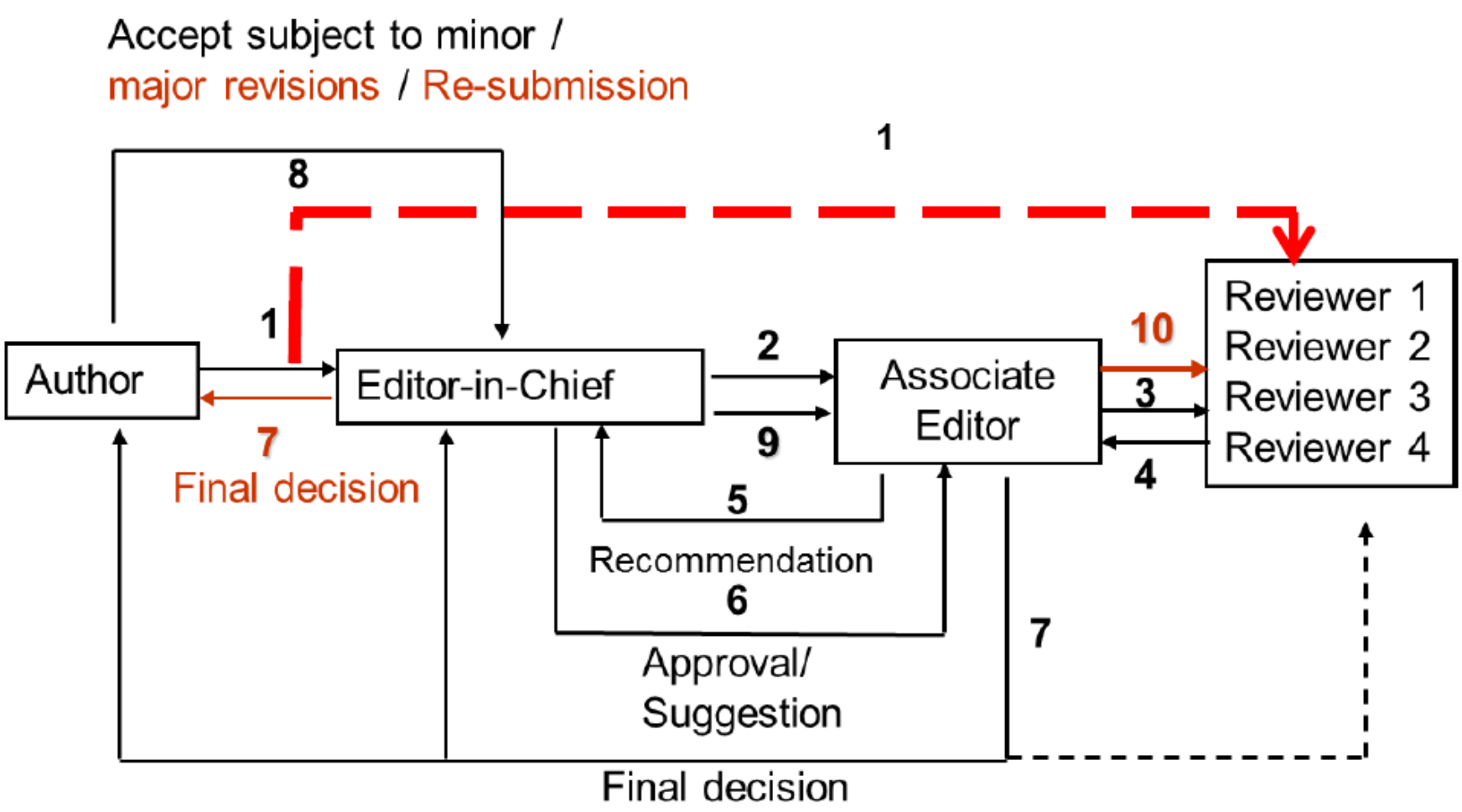
sources for portable electronic devices and viewed as the promising power source of electric vehicle. Their energy density and power density mainly depend on the physical and chemical properties of

host anode during rapid charge [1,12]. Further-
ıas advantages over other carbon alternatives in
tronic conductivity, low cost and eco-friendliness
[5,11–14]. However, its application in practical lithium-ion bat-
teries is still hindered by the poor cycling performance arising
from the severe aggregation and huge volume change of Fe_3O_4

Review Process



交流提纲

- **1 期刊的发展历史和分类：**
- **2 期刊投稿的影响因素：**

  影响因子，读者范围，审稿时间，审稿制度…
- **3 菜鸟发表处女作的期刊投稿建议：**

Choosing the right journal

- **Seek advice from your advisors, colleagues**
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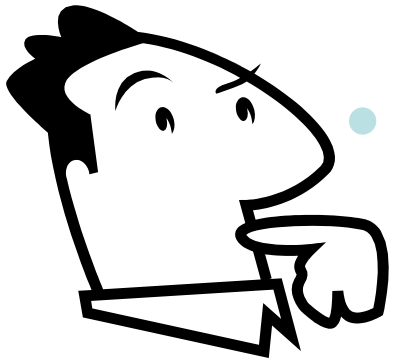

Journal list--1

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

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Web of Science SM

检索

"copper nano*" 检索范围 主题

示例: oil spill* mediterranean

AND 检索范围 作者

示例: O'Brian C* OR OBrian C*

您是否需要根据作者来查找论文? 请使用作者甄别工具。

AND 检索范围 出版物名称

示例: Cancer* OR Journal of Cancer Research and Clinical Oncology

添加另一字段 >>

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所有年份 (更新时间 2011-10-17)

从 1899 至 2011 (默认为所有年份)

引文数据库 : Science Citation Index Expanded (SCI-EXPANDED); Social Sciences Citation Index (SSCI); Arts & Humanities Citation Index (A&HCI)

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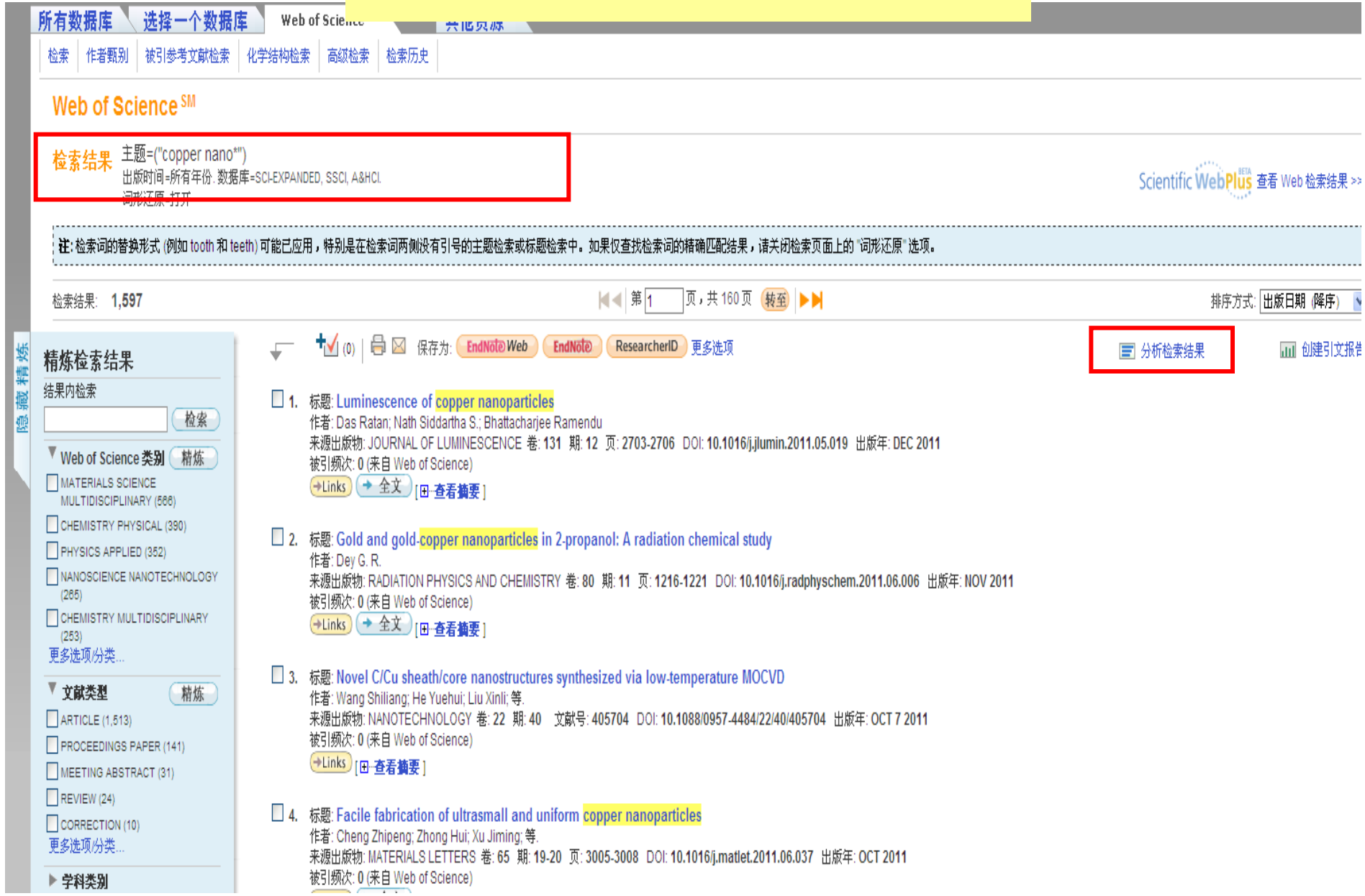
调整检索结果设置

Journal list--1



Journal list--1

结果分析

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☐	NANOTECHNOLOGY	51	3.193 %		
☐	JOURNAL OF PHYSICAL CHEMISTRY C	45	2.818 %		
☐	JOURNAL OF PHYSICAL CHEMISTRY B	34	2.129 %		
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☐	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	31	1.941 %		
☐	JOURNAL OF MATERIALS CHEMISTRY	30	1.879 %		
☐	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	29	1.816 %		
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☐	APPLIED PHYSICS LETTERS	27	1.691 %		
☐	APPLIED SURFACE SCIENCE	26	1.628 %		

Journal list--2

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国家/地区 文献类型 编者 基金资助机构	显示前 10 个检索结果. 最少记录数 (阈值): 2	记录数 已选字段

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☐	PEOPLES R CHINA	394	24.671 %		
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☐	RUSSIA	124	7.765 %		
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Journal list--2

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出版时间=所有年份. 数据库=SCI-EXPANDED, SSCI, A&HCI.
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结果内检索 检索

Web of Science 类别 精炼
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- CHEMISTRY PHYSICAL (86)
- PHYSICS APPLIED (80)
- NANOSCIENCE NANOTECHNOLOGY (78)
- CHEMISTRY MULTIDISCIPLINARY (61)

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- ARTICLE (386)
- PROCEEDINGS PAPER (18)
- CORRECTION (3)
- LETTER (2)
- REVIEW (2)

更多选项/分类...

学科类别

(0) 保存为: EndNote Web | EndNote | ResearcherID 更多选项 分析检索结果 创建引文报告

1. 标题: Novel C/Cu sheath/core nanostructures synthesized via low-temperature MOCVD
作者: Wang Shiliang; He Yuehui; Liu Xinli; 等.
来源出版物: NANOTECHNOLOGY 卷: 22 期: 40 文献号: 405704 DOI: 10.1088/0957-4484/22/40/405704 出版年: OCT 7 2011
被引频次: 0 (来自 Web of Science)
Links [+ 查看摘要]

2. 标题: Facile fabrication of ultrasmall and uniform copper nanoparticles
作者: Cheng Zhipeng; Zhong Hui; Xu Jiming; 等.
来源出版物: MATERIALS LETTERS 卷: 65 期: 19-20 页: 3005-3008 DOI: 10.1016/j.matlet.2011.06.037 出版年: OCT 2011
被引频次: 0 (来自 Web of Science)
Links 全文 [+ 查看摘要]

3. 标题: Ligand-Promoted, Copper Nanoparticles Catalyzed Oxidation of Propargylic Alcohols with TBHP or Air as Oxidant
作者: Han Chengyan; Yu Min; Sun Weijiang; 等.
来源出版物: SYNLETT 期: 16 页: 2363-2368 DOI: 10.1055/s-0030-1261227 出版年: OCT 2011
被引频次: 0 (来自 Web of Science)
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4. 标题: Cu@C composite nanotube array and its application as an enzyme-free glucose sensor
作者: Ding Ruimin; Jiang Jian; Wu Fei; 等.
来源出版物: NANOTECHNOLOGY 卷: 22 期: 37 文献号: 375303 DOI: 10.1088/0957-4484/22/37/375303 出版年: SEP 16 2011
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Journal list--2

结果分析

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出版年 来源出版物 学科类别 Web of Science 类别	显示前 10 个检索结果. 最少记录数 (阈值): 2	记录数 已选字段

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☐	ACTA PHYSICA SINICA	9	2.284 %		
☐	APPLIED PHYSICS LETTERS	8	2.030 %		
☐	MATERIALS CHEMISTRY AND PHYSICS	8	2.030 %		
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☐	CARBON	6	1.523 %		
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☐	ELECTROCHEMISTRY COMMUNICATIONS	6	1.523 %		

Journal list--3

结果分析

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根据此字段排列记录:	设置显示选项:	排序方式:
语种 出版年 来源出版物 学科类别	显示前 10 个检索结果. 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 （并查看其他记录）.

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☐	ENGLISH	1560	97.683 %		表格中显示的数据行 / 所有数据行
☐	UNSPECIFIED	29	1.816 %		
☐	CHINESE	5	0.313 %		

Journal list--3

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Web of Science SM

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检索结果 主题=("copper nano*")
精炼依据: 语种=(CHINESE)
出版时间=所有年份. 数据库=SCI-EXPANDED, SSCI, A&HCI.
词形还原=打开

检索结果: 5 第 1 页，共 1 页 转至 排序方式: 出版日期 (降序)

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精炼检索结果

结果内检索 检索

Web of Science 类别 精炼
- PHYSICS MULTIDISCIPLINARY (4)
- MATERIALS SCIENCE MULTIDISCIPLINARY (1)
- METALLURGY METALLURGICAL ENGINEERING (1)

更多选项/分类...

文献类型 精炼
- ARTICLE (5)

学科类别
作者
团体作者
编者
来源出版物
丛书名称

(0) 保存为: EndNote Web EndNote ResearcherID 更多选项

分析检索结果 创建引文报告

1. 标题: Molecular dynamics study on structural change of a Au(959) cluster supported on MgO(100) surface at low temperature
作者: Zhang Lin; Zhang Cai-Bei; Qi Yang
来源出版物: ACTA PHYSICA SINICA 卷: 58 期: 6 页: S53-S57 出版年: JUN 2009
被引频次: 1 (来自 Web of Science)

2.

期刊封面

月刊16开

投稿

3.

4.

物理学报

Acta Physica Sinica

刊登物理学科各领域中原创性成果的前沿研究综述、研究快讯及研究论文。该刊以论文水平高、创新性强，发表速度快的特点，受到国内外物理学工作者的高度重视，被国际著名的SCI等17种核心检索系统收录。2004年在SCI数据库中，影响因子为1.250。该刊被引频次已连续5年居中国物理类期刊第一位，已达到国际期刊的中上水平。在中信所数据库中，该刊被引频次和影响因子已连续7年居中国物理类期刊第一位，曾多次被评为中国科学院优秀期刊一等奖，荣获首届、第二届、第三届国家期刊奖，2001年荣获中国期刊方阵“双高”（高知名度，高学术水平）期刊和2001，2002，2003，2004，2005年百种中国杰出学术期刊奖。 欢迎各省、市、县图书情报界、科技教育界、高科技企业界及广大物理学工作者订阅。

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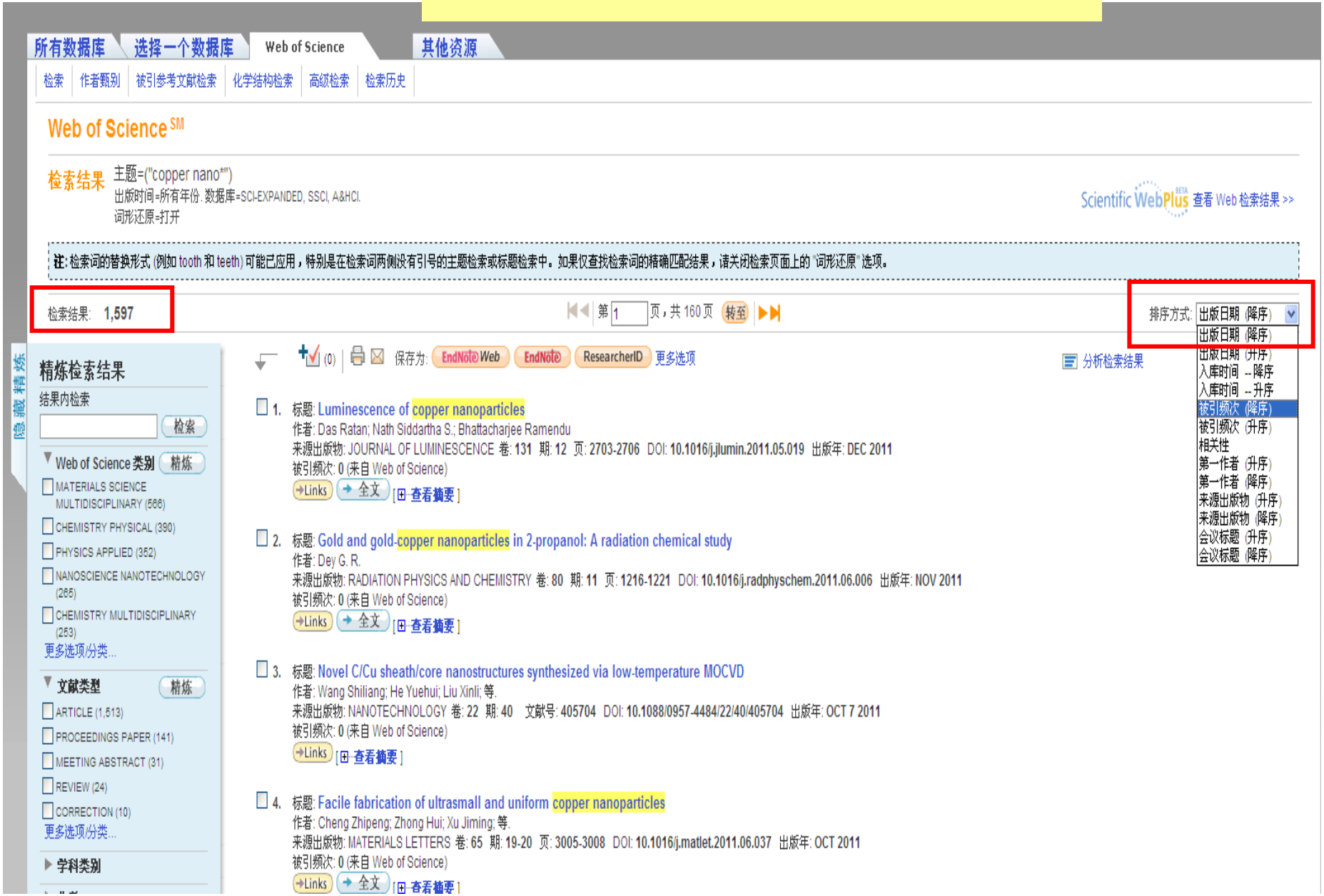

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摘要: It is shown that a "nanofluid" consisting of copper nanometer-sized particles dispersed in ethylene glycol has a much higher effective thermal conductivity than either pure ethylene glycol or ethylene glycol containing the same volume fraction of dispersed oxide nanoparticles. The effective thermal conductivity of ethylene glycol is shown to be increased by up to 40% for a nanofluid consisting of ethylene glycol containing approximately 0.3 vol % Cu nanoparticles of mean diameter < 10 nm. The results are anomalous based on previous theoretical calculations that had predicted a strong effect of particle shape on effective nanofluid thermal conductivity, but no effect of either particle size or particle thermal conductivity. (C) 2001 American Institute of Physics.

文献类型: Article

语种: English

KeyWords Plus: FLUIDS

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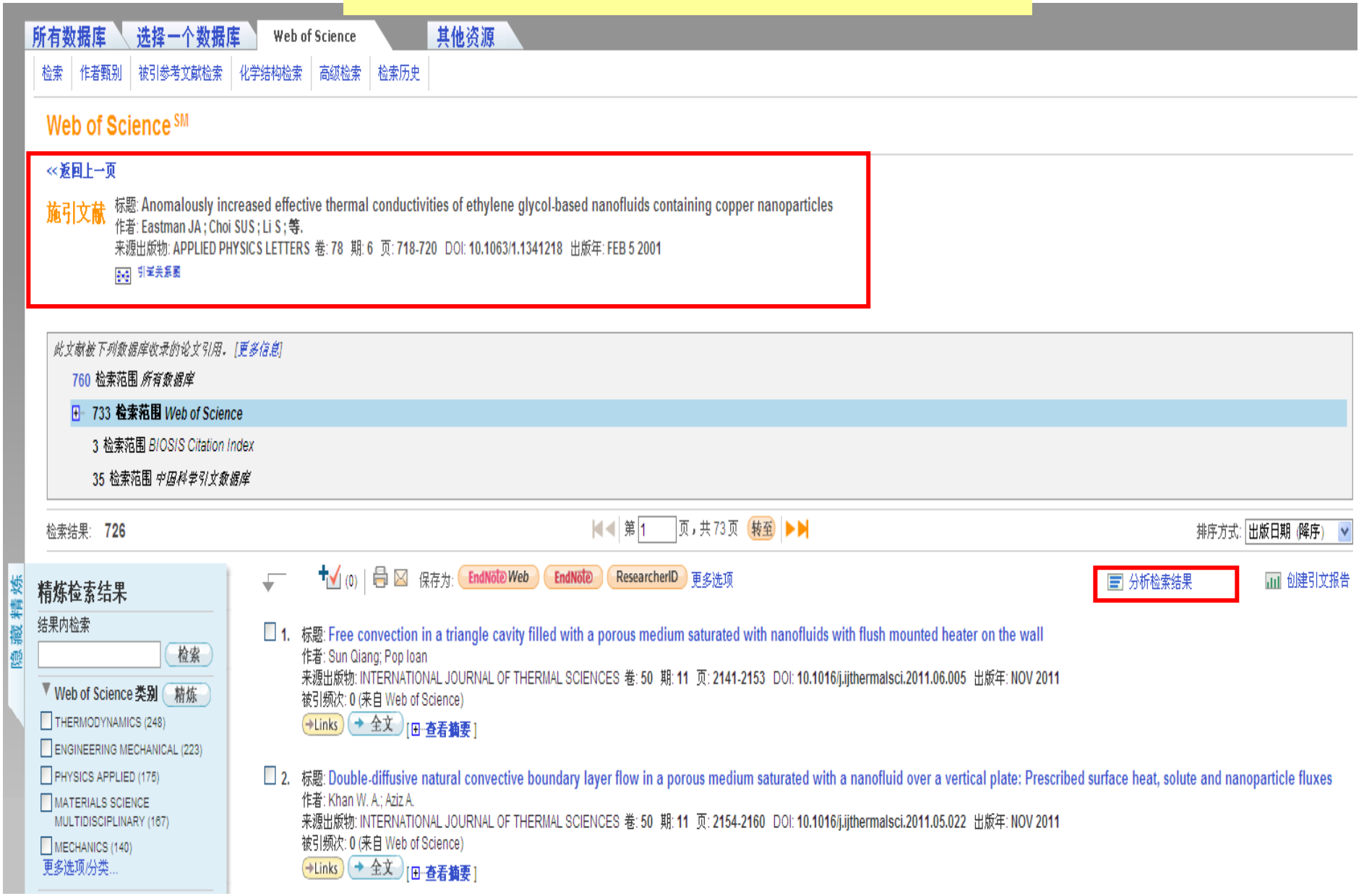

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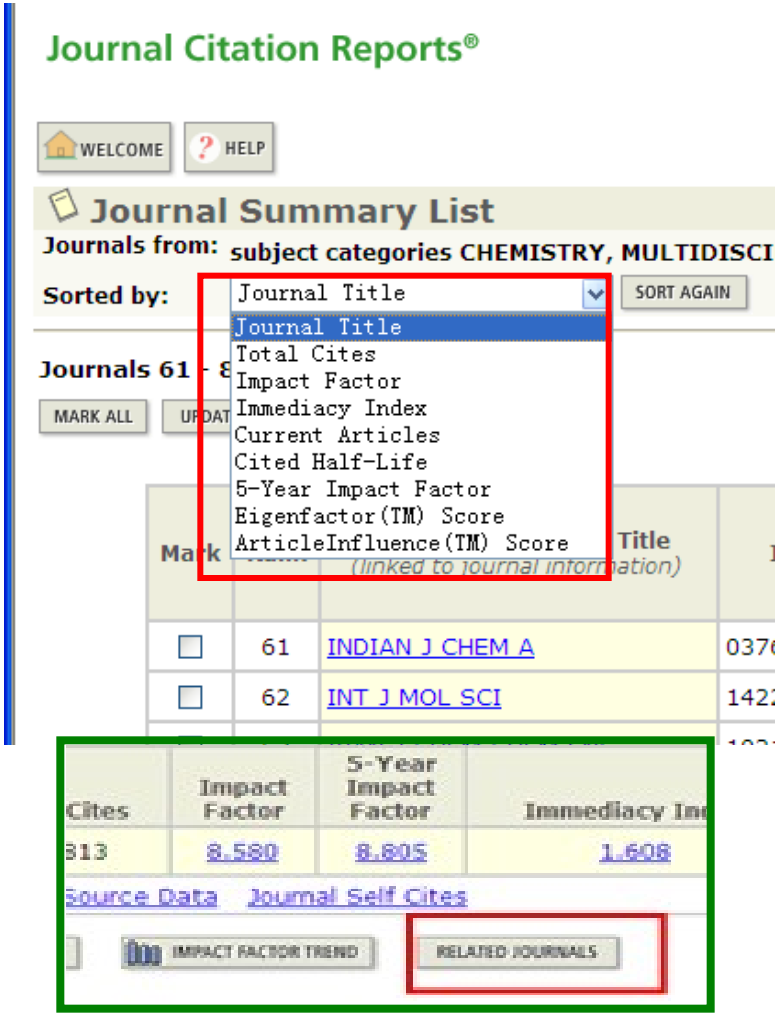

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