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In Situ Construction of Stable Tissue-Directed/Reinforced Bifunctional Separator/Protection Film on Lithium Anode for Lithium-Oxygen Batteries

Xu, Ji-Jing¹; Liu, Qing-Chao²; Yu, Yue¹; Wang, Jin^{1,3}; Yan, Jun-Min³; Zhang, Xin-Bo¹

Source: *Advanced Materials*, v 29, n 24, June 27, 2017; ISSN: 09359648, E-ISSN: 15214095; DOI: 10.1002/adma.201606552; Article number: 1606552; Publisher: Wiley-VCH Verlag

Author affiliations: ¹ State Key Laboratory of Rare Earth Resource Utilization, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun; 130022, China

² College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou; 450001, China

³ Key Laboratory of Automobile Materials, Ministry of Education, Department of Materials Science and Engineering, Jilin University, Changchun; 130012, China

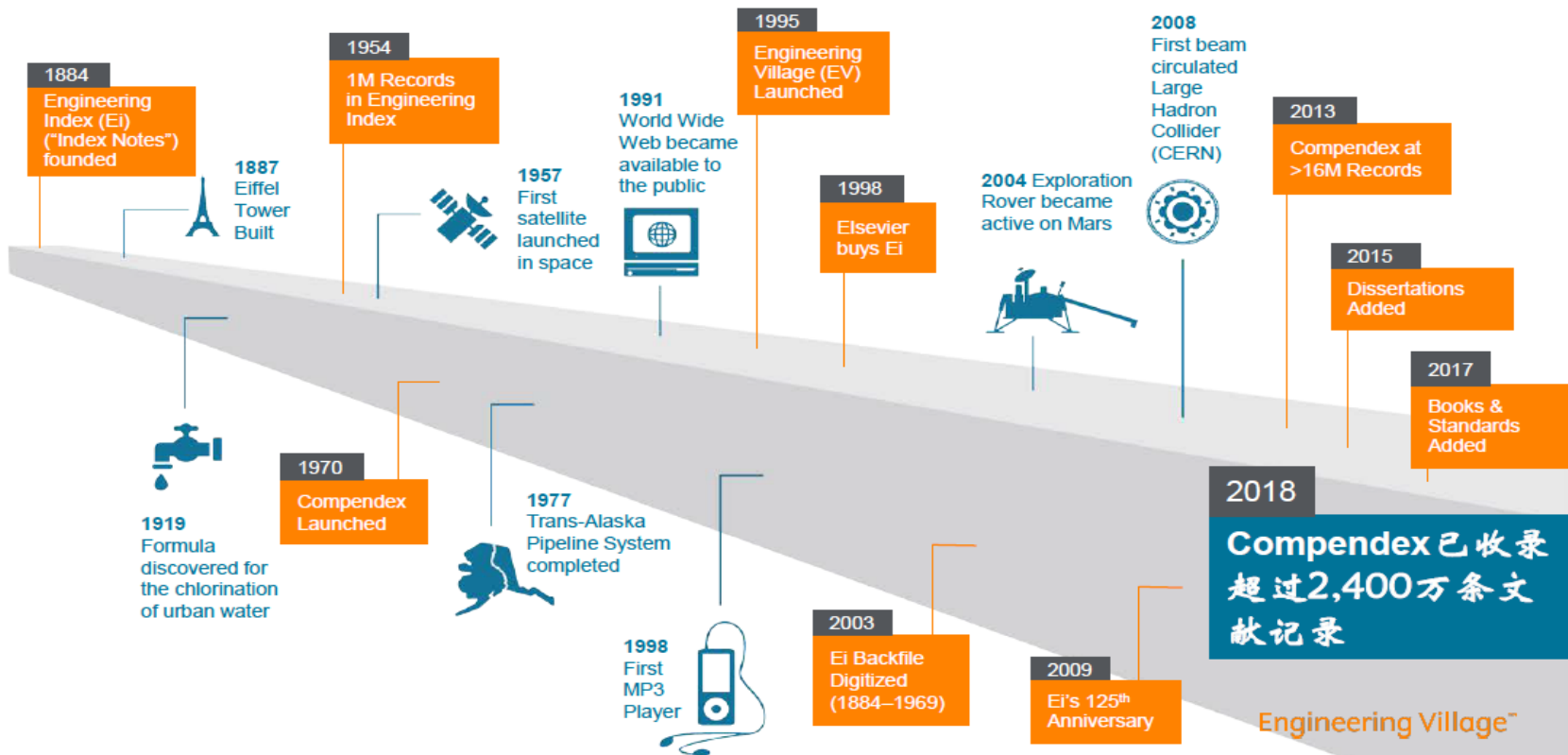
Abstract: To achieve a high reversibility and long cycle life for Li–O₂ battery system, the stable tissue-directed/reinforced bifunctional separator/protection film (TBF) is in situ fabricated on the surface of metallic lithium anode. It is shown that a Li–O₂ cell composed of the TBF-modified lithium anodes exhibits an excellent anodic reversibility (300 cycles) and effectively improved cathodic long lifetime (106 cycles). The improvement is attributed to the ability of the TBF, which has chemical, electrochemical, and mechanical stability, to effectively prevent direct contact between the surface of the lithium anode and the highly reactive reduced oxygen species (Li₂O₂ or its intermediate LiO₂) in cell. It is believed that the protection strategy describes here can be easily extended to other next-generation high energy density batteries using metal as anode including Li–S and Na–O₂ batteries. © 2017 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim
(44 refs)

Controlled terms: **Stable** **Chemical stability** **Electric batteries** **Electrodes** **Lithium** **Lithium sulfur batteries** **Mechanical stability** **Oxygen** **Secondary batteries** **Separators** **Tissue**

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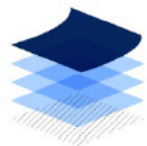


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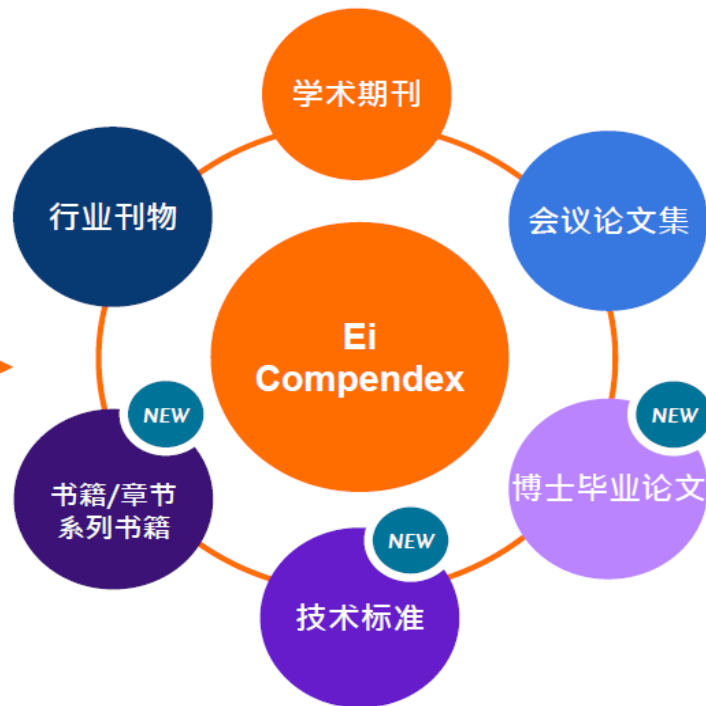
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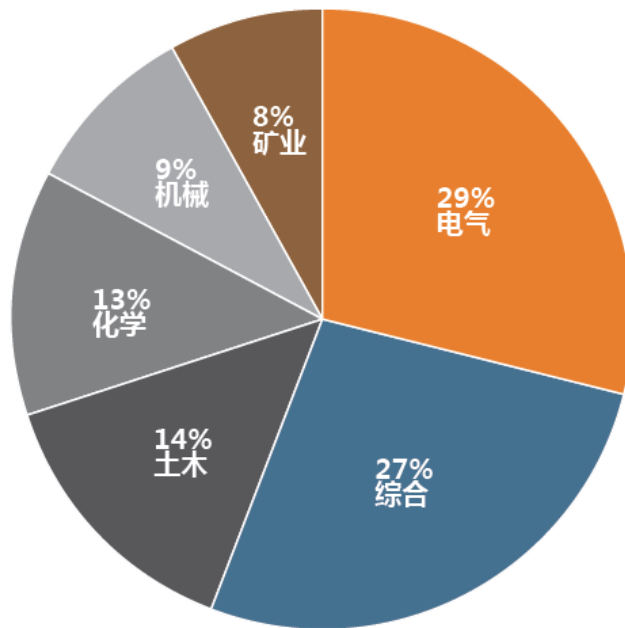
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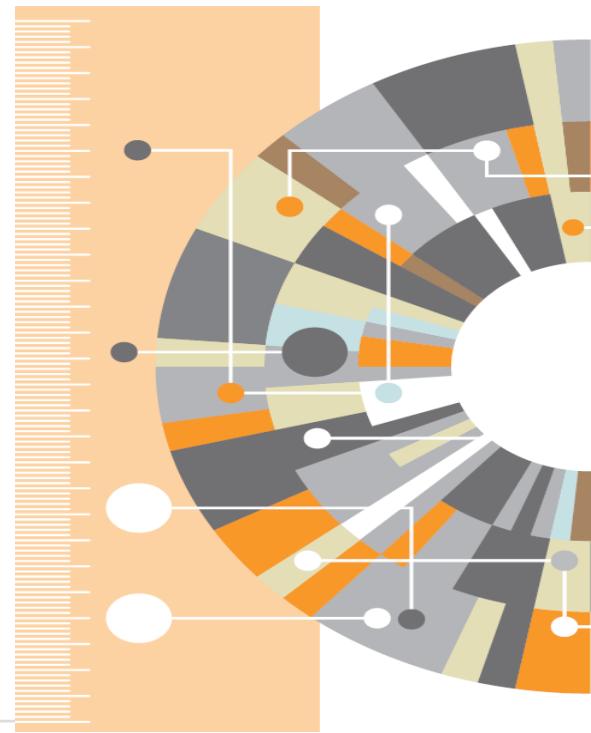
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作者 Itj1992

来源: 小木虫 200 4 举报帖子

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会议ei论文，含金量怎么样？容易发掉吗？

会议与征稿布告 栏	<p>[2019-4-30] 英文普刊长期征稿[面向全科 当月见刊]</p> <p>普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。众多优质ISTP、EI会议、期刊 诚招代理，多稿多优惠，欢迎咨询！...</p>	fengjiet	2019-04-18 02:28
会议与征稿布告 栏	<p>[2019-06-10][EI检索]2019第三届工程设计和产品创新国际会议...</p> <p>他主持了几次国际会议和期刊，并应邀在世界各地发表主题演讲，并在全球几所大学工作过。...【不投稿的你也可以】（3个选择如下）：1.报告者：如果你只想参加会议并作报告，不出版论文，只需要...</p>	sg8s40	2019-04-18 02:12
会议与征稿布告 栏	<p>[2019-07-10][SCI][天津大学]2019年第四届先进材料研究与制造...</p> <p>2.优秀文章将提交出版在以下SCI期刊特刊中1)JournalofMaterialsandManufacturingProcesses(OnlineISSN:1532-24752)JournalofSurfaceEngineering:...【不投稿的你也可以来】（3个选择如下）：1...</p>	ebubm96	2019-04-18 01:19
会议与征稿布告 栏	<p>多本国外普刊长期征稿面向全科【月刊】</p> <p>2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	211827670	2019-04-18 01:40
会议与征稿布告 栏	<p>[2019-04-30]【毕业保底】【基金项目结题】欧美港印英文【普刊】</p> <p>【sci检索期刊】/【ei检索期刊】/【sci摘要检索会议】/【ei会议/istp...普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	dingbei170	2019-04-17 10:01
会议与征稿布告 栏	<p>国际英文期刊征文-长期征稿</p> <p>'美国《Internationalcorejournalofengineering》(icje)...注：普刊长期征稿，不送检ei，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。</p>	dswsk18	2019-04-17 09:21
会议与征稿布告 栏	<p>多本国外普刊长期征稿面向全科【月刊】</p> <p>2414-1895期刊官网：'http://www.ICJ-E.org'投稿邮箱：'...普刊长期征稿，不送检EI，一般用于基金项目结题，学术论文发表，学术测评、毕业保底等，具体请作者查看自己高校的政策再做选择。...</p>	进毅细4696	2019-04-17 02:19

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Advance Journal of Food Science and Technology	20424868	20424876	Maxwell Science Publications	2015	9	12	911-988
Advanced Materials Research	10226680	16628985	Trans Tech Publications Ltd	2014	1059	N/A	1-133
Advances in Information Sciences and Service Sciences	19763700	22339345	Advanced Institute of Convergence Information Technology	2012	4	23	1-820
Advances in Modelling and Analysis A	12585769	-	AMSE Press	2017	54	2	137-383
Advances in Modelling and Analysis B	12404543	-	AMSE Press	2017	60	2	283-524
Advances in Modelling and Analysis C	12404535	-	AMSE Press	2017	72	2	101-180
Agro Food Industry Hi-Tech	17226996	-	TeknoScienze	2017	28	6	4-72
American Journal of Food Technology	15574571	1557458X	Academic Journals Inc.	2016	11	6	240-297
Applied Mechanics and Materials	16609336	16627482	Trans Tech Publications Ltd	2014	694	N/A	1-583
Beijing Gongye Daxue Xuebao/Journal of Beijing University of Technology	02540037	-	Beijing University of Technology	2012	38	12	1761-1920
Biotechnology	1682296X	16822978	ANSI Asian Network for Scientific Information	2018	17	3	104-157
Biotechnology: an Indian Journal	09747435	-	Trade Science Inc	2014	10	12	5791-6875
Boletín Técnico	0376723X	-	Universidad Central de Venezuela	2017	55	20	1-710
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Cailliao Kexue yu Gongyi/Material Science and Technology	10050299	-	Harbin Institute of Technology	2012	20	6	1-148

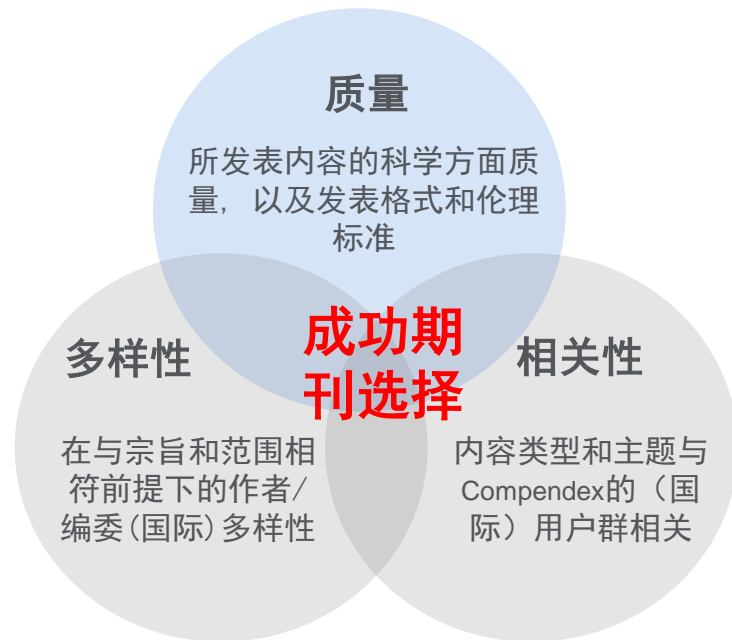
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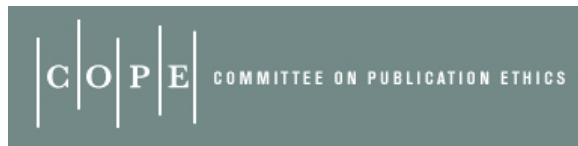


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导师给定方向后泛调研

收集该领域的**综述文献、博士学位论文**；主要利用本领域经典或综述文献数据库

重点阅读英文综述或研究论文标题、摘要：了解**前沿、难点、创新点**、并收集**关键词**

实验室研究背景+当前研究热点+自身兴趣点=确定**研究题目**

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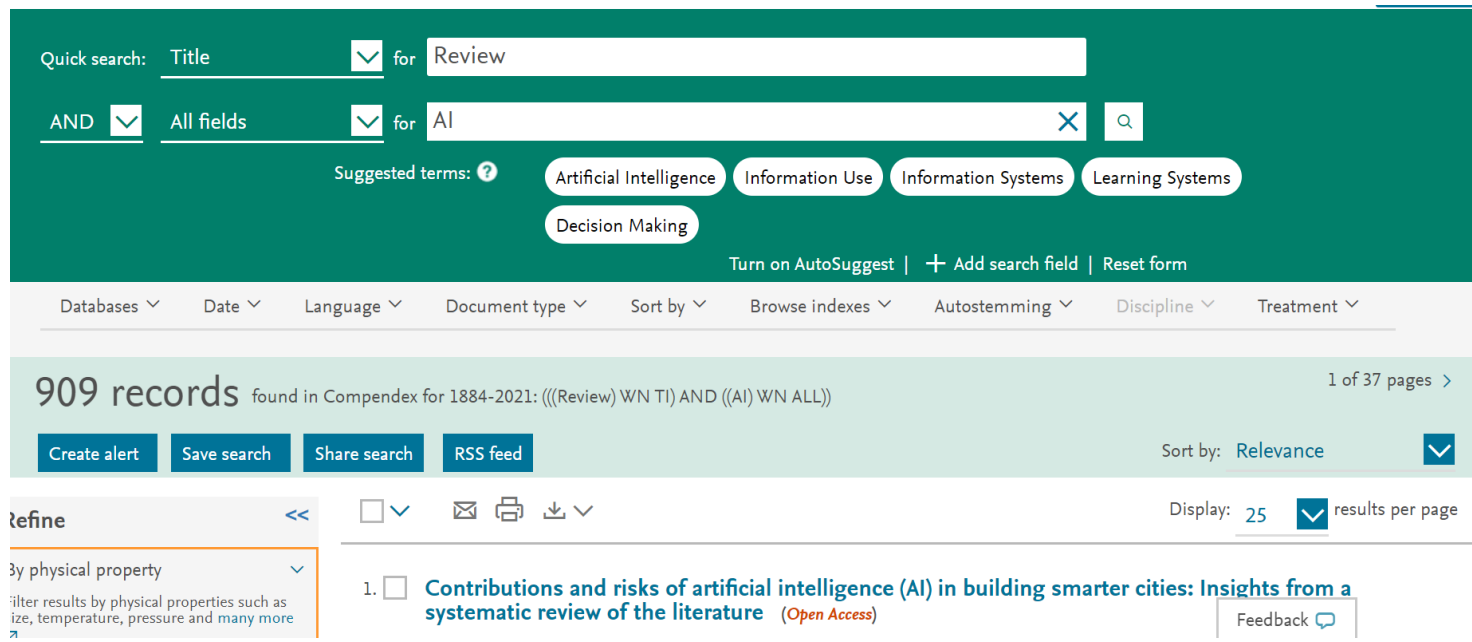
有针对性的收集文献，**确定内容**；
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文献阅读注意**泛读**和**精读**相结合

基于技术和方法的创新，确定课题实施方案

二、先看综述性论文，再看研究论文。

- 特点：综合性、扼要性和评价性，参考文献多。应作为“起步文献”加以参考利用。
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(3) 可得到课题研究现状综述

(4) 可跟踪名校导师的科研进程

(5) 学习学位论文的写作方法

可以获得课题研究的更多相关文献

方法：键入关键词后，勾选Document type中的Dissertation，直接命中。

The screenshot shows the Engineering Village search interface. At the top, the logo and tagline 'Engineering Village™ The first choice for serious engineering research.' are visible. Below the search bar, the 'Quick search' section is active. The search criteria are set to 'All fields' for the query 'Search for... e.g. transcription factors AND jon smith'. The 'Document type' filter is expanded, and 'Dissertation' is selected with a radio button. Other options include 'All Document types', 'Conference article', 'Patents (before 1970)', 'Article in Press', 'Conference proceeding', 'Report chapter', 'Book', 'Report review', and 'Journal article'. A blue callout box points to the 'Dissertation' option with the text 'ProQuest Dissertation 学位论文'. The footer includes the Elsevier logo and links for 'Terms and Conditions' and 'Privacy Policy'.



四、阅读本领域的主要研究者/机构的文献

- 利用数据库的分析功能获得。
- **方法：键入关键词后，看左边的数据分析器，直观获取。**

The screenshot displays the Engineering Village database interface. The 'Refine results' sidebar on the left contains two sections: 'Author' and 'Author affiliation'. The 'Author' section lists names like Wang, Wei (1194), Zhang, Wei (1139), Li, Wei (1112), Wang, Jun (883), and Wang, Yan (806). The 'Author affiliation' section lists institutions such as University Of Chinese Academy Of Sciences (3096), U.S. Geological Survey (2262), State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University (2049), Csiro Land And Water (1818), and State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology (1705). Two orange callout boxes with white text are overlaid on the sidebar: one pointing to the 'Author' section with the text 'Author 作者信息', and another pointing to the 'Author affiliation' section with the text 'Author Affiliation 机构信息'. The main search results area shows several entries with titles like '...ing by trend and harmonic analysis' and '...temperature from air temperature: Using least square method', each with a 'Full text' button.



五、阅读高被引次数的文献

- 被引次数是判断一篇论文是否有影响力（价值）的一种比较直观和比较有效的方法。
- **方法：完成一次检索后，引用数据会直接显示在相应的记录上。**

Engineering Village

14. **Prospects of high temperature superconductors for fusion magnets and power applications**
Fietz, Walter H. (Karlsruhe Institute of Technology, Karlsruhe, Germany); Barth, Christian; Drotziger, Sandra; Goldacker, Wilfried; H
l.; Weiss, Klaus-Peter Source: *Fusion Engineering and Design*, v 88, n 6-8, p 440-445, 2013
Database: Compendex
Abstract | Detailed |  Show preview | Cited by in Scopus (6) | Full Text Link | 

15. **Conduction cooled high temperature superconducting dipole magnet for accelerator applications**
Zangenberg, Nikolaj (Danfysik A/S, Gregersensvej 8, DK-2630, Taastrup, Denmark); Nielsen, Gunver; Hauge, Nils; Nielsen, Bjarne
Christian G.; Bräuner, Lars; Ulse, Bo; Miller, Sren Pape Source: *IEEE Transactions on Applied Superconductivity*, v 22, n 3, 2012
Database: Compendex
Abstract | Detailed |  Show preview | Cited by in Scopus (6) | Full Text Link | 

引文信息

1896 1907 1956 1979 1989 1993 2006
1884 1902 1937 1963 1988 1993 2006

www.ei.org

Thesaurus Search – 叙词检索



索引实现检索的查全和查准



Example

An engineer wants to evaluate peer-reviewed literature on rechargeable batteries.

They need to survey all recent publications and don't want to miss anything.

术语表达

材料种类

不同机理

电池类型

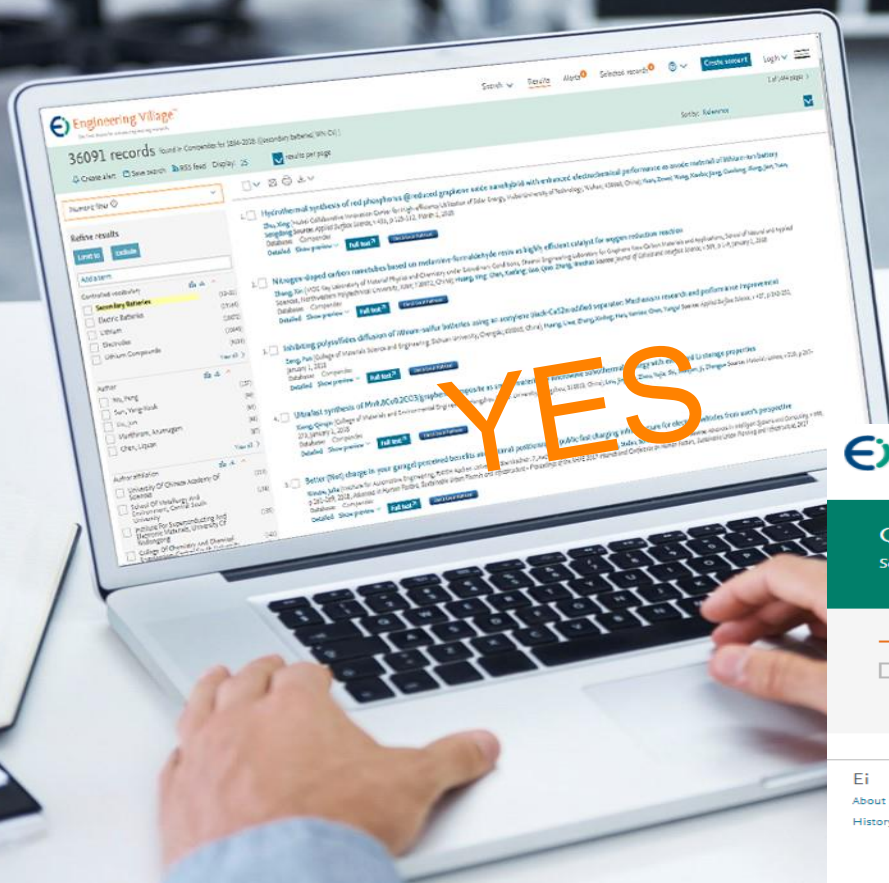
Engineer

如果没有Engineering Village上的Ei Compendex



工程师需要花上2页半长的
搜索查询才能相当于Ei
Compendex叙词表的贡献

而在Engineering Village上的Ei Compendex...



工程师只需通过叙词表中的“Secondary batteries”在Engineering Village上检索所需结果

Engineering Village™
The first choice for serious engineering research.

Quick search

Search in: All fields for

Databases All Compendex GEOBASE Inspec GeoRef NTIS US Patents Paper EP Patents

Sort by

Rechargeable batteries
Recommended terms: Secondary batteries
Recharging (underground waters)
Auto Suggest. Powered by Ei Thesaurus

二、精确查找特定研究领域： Ei独有的工程索引叙词表

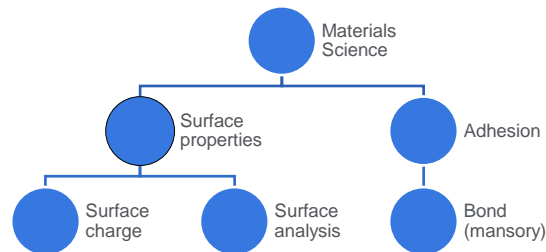
从1884年起，一直在发展中



叙词表是由专业的规范词组成，它可以将同一主题不同表述的词，按主题内容规范在标准的专业词下，避免了由于词汇书写不同造成漏检，或词义概念混淆导致错检的问题。

用户利用叙词表可从主题角度检索文献，进而提高文献的查准率。

利用叙词表还可以从主题概念的角度扩展或缩小检索范围。



实例：

以关键词Distribution networks进行Thesaurus Search： 点击“Thesaurus”，
打开叙词表， 输入关键词， 点击“Search Index”， 系统显示与之相应的叙词；

The screenshot displays a web-based Thesaurus Search interface. At the top, a search bar contains the text 'Distribution networks' and a 'Search index' button. Below the search bar, a 'Database:' section shows radio buttons for 'Compendex', 'Inspec', 'GeoRef', 'GEOBASE', and 'EnCompass', with 'Compendex' selected. The main content area is titled 'Exact term results' and shows a breadcrumb path: 'Distribution networks > Electric power distribution'. A list of terms is displayed, including 'Electric power distribution', 'Electric power systems', 'Electric conduits', 'Electric fields', 'Electric load flow', 'Electric power system planning', 'Power transformers', 'Reactive power', 'Distributed power generation', 'Outages', 'Power quality', 'Standby power service', and 'Underground electric power distribution'. The 'Power transformers' term is selected. To the right, a 'Selected term(s)' box lists 'Power transformers', 'Outages', and 'Power quality'. Below this box are 'Reset form' and a search icon. At the bottom, there are several dropdown menus for 'Date', 'Document type', 'Language', 'Discipline', 'Treatment', and 'Sort by'.

1884 1896 1902 1907 1937 1956 1963 1979 1988 1989 1993 1998 2006

www.ei.org

Quick Search – 快速检索

一、筛选检索结果

Numeric filter

Refine results

Controlled vocabulary

Author

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Publisher

Funding sponsor

- 在Refine Results检索结果中:可依作者、作者所属机构、国家、文献种类等类别进阶筛选:可Include或是Exclude一个或多个标目
- 在Refine Results中可结合超过一个以上的分析项目,透过每篇标目前的勾选框勾选要结合的记录

- Water demand forecasting by trend and harmonic analysis**
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Beata; Kowalski, Dariusz; Mazurkiewicz, Dariusz Sources: *Water Resources Management*, v 32, n 1, February 1, 2018, p 1-12, 12 p.
Database: Compendex
Detailed Show preview
- Estimation of river water temperature from air temperature: Using least square method**
Ouyang, Heng (Department of Civil Engineering, Fujian University of Technology, Fuzhou; Fujian; 350108, China); Xue, Xingsi; Qiu, Zongxin; Lu, Yongsheng Sources: *Smart Innovation, Systems and Technologies*, v 81, p 264-271, 2018, *Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*.
Database: Compendex
Detailed Show preview
- Catalytic reduction for water treatment**
Hu, Maocong (Department of Chemical, Biological and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark; NJ; 07102, United States); Liu, Yin; Yao, Zhenhua; Ma, Liping; Wang, Xianqin Sources: *Frontiers of Environmental Science and Engineering*, v 12, n 1, February 1, 2018
Database: Compendex
Detailed Show preview
- Sustainable energy: Human factors in geothermal water resource management**
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewicza 30, Krakow; 30-059, Poland) Source: *Advances in Intelligent Systems and Computing*, v 599, p 60-71, 2018, *Advances in Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries - Proceedings of the AHFE 2017 International Conference on Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries, 2017*.
Database: Compendex
Detailed Show preview
- Evaluation and reutilization of water sludge from fresh water processing plant as a green clay substituent**
Ling, Yew Pei (School of Materials and Mineral Resources Engineering, Engineering Campus, Universiti Sains Malaysia, Nibong Tebal; Penang; 14300, Malaysia); Tham, Ren-Haw; Lim, Siew-Ming; Fahim, Muhammad; Ooi, Chee-Heong; Krishnan, Puspamathan; Matsumoto, Akihiko; Yeoh, Fei-Yee Source: *Applied Clay Science*, v 143, p 300-306, July 1, 2017
Database: Compendex

控制词汇

Controlled vocabulary		
<input type="checkbox"/> Water	(76175)	
<input type="checkbox"/> Mathematical Models	(72140)	
<input type="checkbox"/> Computer Simulation	(57816)	
<input type="checkbox"/> Soils	(53764)	
<input type="checkbox"/> Water Quality	(48305)	
View all >		

作者

Author		
<input type="checkbox"/> Wang, Wei	(1194)	
<input type="checkbox"/> Zhang, Wei	(1139)	
<input type="checkbox"/> Li, Wei	(1112)	
<input type="checkbox"/> Wang, Jun	(883)	
<input type="checkbox"/> Wang, Yan	(806)	
View all >		

作者机构

Author affiliation		
<input type="checkbox"/> University Of Chinese Academy Of Sciences	(3096)	
<input type="checkbox"/> U.S. Geological Survey	(2262)	
<input type="checkbox"/> State Key Laboratory Of Water Resources And Hydropower Engineering Science, Wuhan University	(2049)	
<input type="checkbox"/> Csiro Land And Water	(1818)	
<input type="checkbox"/> State Key Laboratory Of Urban Water Resource And Environment, Harbin Institute Of Technology	(1705)	
View all >		

学科分类

Classification code		
<input type="checkbox"/> Chemical Products Generally	(305324)	
<input type="checkbox"/> Chemical Operations	(284168)	
<input type="checkbox"/> Organic Compounds	(258893)	
<input type="checkbox"/> Chemical Reactions	(228331)	
<input type="checkbox"/> Chemistry	(185796)	
View all >		

国家

Country		
<input type="checkbox"/> United States	(300214)	
<input type="checkbox"/> China	(268704)	
<input type="checkbox"/> Japan	(85354)	
<input type="checkbox"/> United Kingdom	(67054)	
<input type="checkbox"/> Germany	(65020)	
View all >		

文献类型

Document type		
<input type="checkbox"/> Journal article	(1171538)	
<input type="checkbox"/> Conference article	(397495)	
<input type="checkbox"/> Dissertation	(18684)	
<input type="checkbox"/> Article in Press	(7993)	
<input type="checkbox"/> Conference proceeding	(7739)	
View all >		

原文语言

Language		
<input type="checkbox"/> English	(1508046)	
<input type="checkbox"/> Chinese	(74904)	
<input type="checkbox"/> German	(18953)	
<input type="checkbox"/> Russian	(13839)	
<input type="checkbox"/> Japanese	(10762)	
View all >		

年

Year		
<input type="checkbox"/> 2018	(269)	
<input type="checkbox"/> 2017	(64800)	
<input type="checkbox"/> 2016	(94832)	
<input type="checkbox"/> 2015	(92476)	
<input type="checkbox"/> 2014	(97399)	
View all >		

刊源

Source title		
<input type="checkbox"/> Water Science And Technology	(21535)	
<input type="checkbox"/> Proquest Dissertations And Theses Global	(18684)	
<input type="checkbox"/> Water Research	(16333)	
<input type="checkbox"/> Advanced Materials Research	(14270)	
<input type="checkbox"/> Proceedings Of Spie - The International Society For Optical Engineering	(14068)	
View all >		

出版社

Publisher		
<input type="checkbox"/> Elsevier Ltd	(144352)	
<input type="checkbox"/> Elsevier	(121944)	
<input type="checkbox"/> American Chemical Society	(67892)	
<input type="checkbox"/> Institute Of Electrical And Electronics Engineers Inc.	(26782)	
<input type="checkbox"/> Springer Verlag	(25231)	
View all >		

赞助机构

Funding sponsor		
<input type="checkbox"/> National Natural Science Foundation of China	(16140)	
<input type="checkbox"/> National Science Foundation	(2324)	
<input type="checkbox"/> Natural Sciences and Engineering Research Council of Canada	(1002)	
<input type="checkbox"/> National Research Foundation of Korea	(842)	
<input type="checkbox"/> U.S. Department of Energy	(826)	
View all >		



ELSEVIER

快速检索实例：

- 以关键词Fast charging station和Distribution network coordinated control进行Ei检索，使用or连接得到相关结果10880条，需进一步过滤筛选；

The screenshot displays the Engineering Village search results page. The search query is "Fast charging station distribution" OR "Distribution network coordinated control". The results show 10,880 records found in Compendex for 1884-2021. The interface includes filters for physical properties, categories, and document types. The results list includes:

- Coordinated Planning of PEV Fast charging Network with Station-owned Photovoltaic Generation**
Zhang, Shuanglin (University of Education, Key Laboratory of Control of Power Transmission and Conversion (STC), China); Shi, Zhwei; Zhou, Yan; Feng, Dongchen; Shi, Shanshan; Fang, Chen. Source: Proceedings of 2019 IEEE 3rd International Electrical and Energy Conference, CIEEC 2019, p 1485-1493, September 2019, Proceedings of 2019 IEEE 3rd International Electrical and Energy Conference, CIEEC 2019. Database: Compendex. Document type: Conference article (CA). Detailed | Show preview | Full text | [UNAVAILABLE](#)
- Distributed cooperative control of multi flywheel energy storage system for electrical vehicle fast charging stations**
Sun, Be (Mingzhi Research Program, Department of Energy Technology, Aalborg University, Pontopidanstræde 101, Aalborg East, Denmark); 9220, Denmark); Dragovic, Tomislav; Vasquez, Juan C.; Gaerem, Joep M. Source: 2015 17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015, October 27, 2015, 2015 17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015. Database: Compendex. Document type: Conference article (CA). Detailed | Show preview | Cited by in Scopus (5) | Full text | [UNAVAILABLE](#)
- Impact of EV fast charging station on distribution system embedded with wind generation**
Shukla, Anandika (Department of Electrical Engineering, Malaysia National Institute of Technology, Jepun, India); Verma, Kusum; Kumar, Rajesh. Source: Journal of Engineering, v 2019, n 18, p 4692-4697, July 1, 2019, 7th International Conference on Renewable Power Generation, ICRPG 2019. Database: Compendex. Document type: Conference article (CA). Detailed | Show preview | Full text | [UNAVAILABLE](#)
- Impact of fast charging station to voltage profile in distribution system**
Pee Da, Bunth (Department of Electrical Engineering, Faculty of Engineering, Kasattat University, Bangkok, Thailand); Dechanapattitha, Sareha. Source: 2014 International Electrical Engineering Congress, IEECON 2014, October 15, 2014. Database: Compendex. Document type: Conference article (CA). Detailed | Show preview | Cited by in Scopus (6) | Full text | [UNAVAILABLE](#)
- Coordinated control strategy of voltage and reactive power in whole distribution network**
Yu, Wei (China Electric Power Research Institute, Haidian District, Beijing 100192, China); Cheng, Song; Gu, Qinglin; Meng, Xiaoli. Source: Diansheng Jishu/Power System Technology, v 36, n 2, p 95-99, February 2012. Language: Chinese. Database: Compendex. Document type: Journal article (JA).

快速检索实例续：

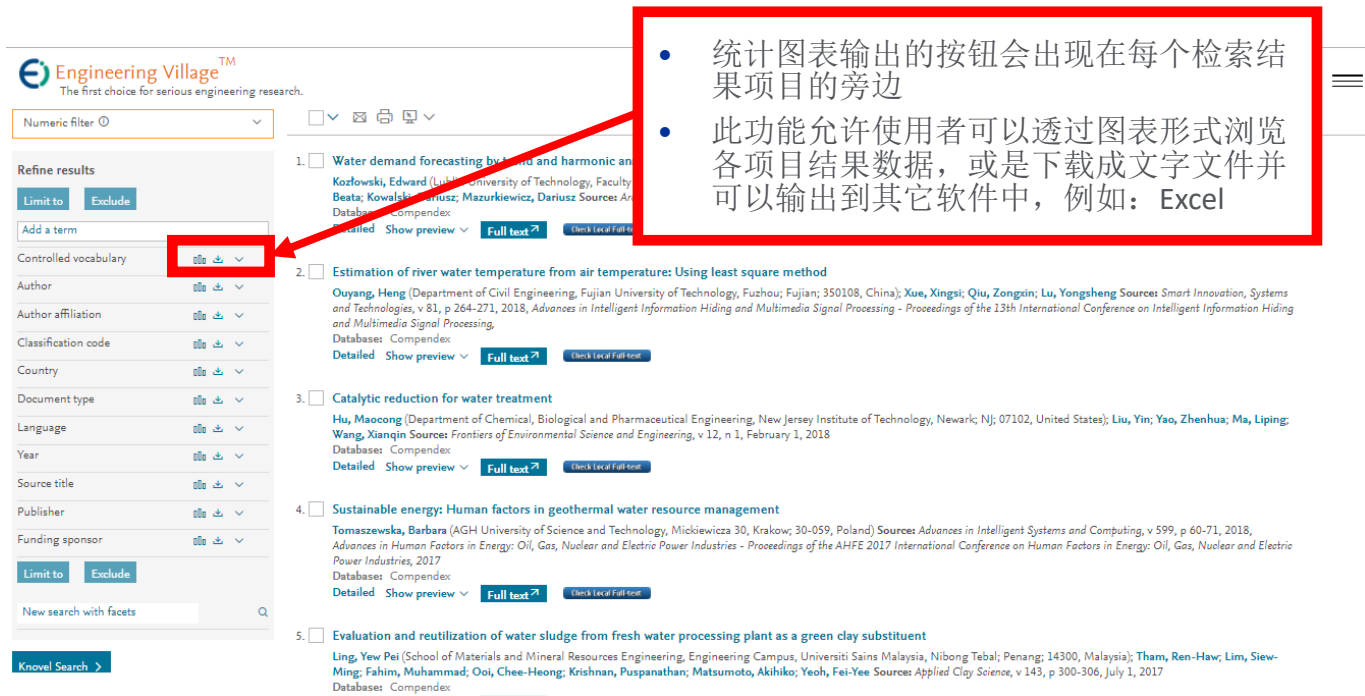
- 例如，勾选了最近3年，国家为China和United States，后点击limit得到相关检索结果817条，后续可以根据需求再次筛选检索结果

The screenshot shows the Engineering Village search results page. The search query is "10,880 records found in Compendex for 1884-2021: (@Fast charging station distribution) WN ALL OR (@Distribution network co...". The results are filtered by Year (2017-2019) and Country/Region (China, United States). A red box highlights the "Limit" button in the "Year" filter section. The search results list includes:

- Coordinated Planning of PEV Fast charging Network with**
Zhang, Duanhong (Ministry of Education, Key Laboratory of Control of Power Sources, Proceedings of 2019 IEEE 3rd International Conference on Energy Conversion, Conference, ICCC 2019
Databases: Compendex
Document types: Conference article (CA)
Detailed Show preview Full text A Check Local Full text
- Distributed cooperative control of multi flywheel energy storage**
Sun, Bo (Microgrids Research Program, Department of Energy Technology, Institute of Energy Conversion, ETH Zurich, Institute of Energy Conversion, ETH Zurich
Juan C, Guerrero, Josep M. Sources: 2015 17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015, October 27, 2015, 2015 17th European Conference on Power Electronics and Applications, EPE-ECCE Europe 2015
Databases: Compendex
Document types: Conference article (CA)
Detailed Show preview Cited by in Scopus (2) Full text A Check Local Full text
- Impact of EV fast charging station on distribution system embedded with wind generation**
Shahb, Manisha (Department of Electrical Engineering, Malaviya National Institute of Technology, Jaipur, India); Verma, Kusum; Kumar, Rajesh Source: Journal of Engineering, v 2019, n 18, p 4692-4697, July 1, 2019, 7th International Conference on Renewable Power Generation, RPG 2018
Databases: Compendex
Document types: Conference article (CA)
Detailed Show preview Full text A Check Local Full text
- Impact of fast charging station to voltage profile in distribution system**
Pea-Da, Bundit (Department of Electrical Engineering, Faculty of Engineering, Kasetsart University, Bangkok, Thailand); Dechanupaprittha, Sanchai Source: 2014 International Conference on Smart Grid and Renewable Energy, ICSGRE 2014, October 15, 2014
Feedback

- 统计图表输出的按钮会出现在每个检索结果项目的旁边
- 此功能允许使用者可以透过图表形式浏览各项目结果数据，或是下载成文字文件并可以输出到其它软件中，例如：Excel

二、分析检索结果



Engineering Village™
The first choice for serious engineering research.


Numeric filter 0

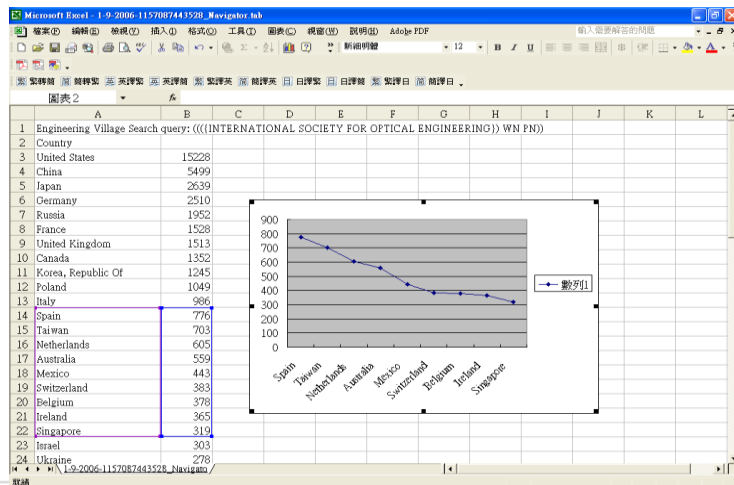
Refine results
Limit to Exclude
Add a term
Controlled vocabulary 统计 下
Author 统计 下
Author affiliation 统计 下
Classification code 统计 下
Country 统计 下
Document type 统计 下
Language 统计 下
Year 统计 下
Source title 统计 下
Publisher 统计 下
Funding sponsor 统计 下
Limit to Exclude
New search with facets Q

Knovel Search >

- 1. **Water demand forecasting by trend and harmonic analysis**
Kozłowski, Edward (Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland); Kowalski, Beata; Kowalski, Marcin; Mazurkiewicz, Dariusz Source: *Applied Artificial Intelligence*, v 32, n 1, February 1, 2018, p 1-12, 12 p. Databases: Compendex Plus, Scopus, Web of Science
Detailed Show preview Full text Click to download full text
- 2. **Estimation of river water temperature from air temperature: Using least square method**
Ouyang, Heng (Department of Civil Engineering, Fujian University of Technology, Fuzhou; Fujian; 350108, China); Xue, Xingsi; Qiu, Zongxin; Lu, Yongsheng Source: *Smart Innovation, Systems and Technologies*, v 81, p 264-271, 2018, *Advances in Intelligent Information Hiding and Multimedia Signal Processing - Proceedings of the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*. Databases: Compendex Plus, Scopus, Web of Science
Detailed Show preview Full text Click to download full text
- 3. **Catalytic reduction for water treatment**
Hu, Maocong (Department of Chemical, Biological and Pharmaceutical Engineering, New Jersey Institute of Technology, Newark NJ; 07102, United States); Liu, Yin; Yao, Zhenhua; Ma, Liping; Wang, Xianqin Source: *Frontiers of Environmental Science and Engineering*, v 12, n 1, February 1, 2018, p 1-12, 12 p. Databases: Compendex Plus, Scopus, Web of Science
Detailed Show preview Full text Click to download full text
- 4. **Sustainable energy: Human factors in geothermal water resource management**
Tomaszewska, Barbara (AGH University of Science and Technology, Mickiewicza 30, Krakow; 30-059, Poland) Source: *Advances in Intelligent Systems and Computing*, v 599, p 60-71, 2018, *Advances in Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries - Proceedings of the AHFE 2017 International Conference on Human Factors in Energy: Oil, Gas, Nuclear and Electric Power Industries, 2017*. Databases: Compendex Plus, Scopus, Web of Science
Detailed Show preview Full text Click to download full text
- 5. **Evaluation and reutilization of water sludge from fresh water processing plant as a green clay substituent**
Ling, Yew Pei (School of Materials and Mineral Resources Engineering, Engineering Campus, Universiti Sains Malaysia, Nibong Tebal; Penang; 14300, Malaysia); Tham, Ren-Haw; Lim, Siew-Ming; Fahim, Muhammad; Ooi, Chee-Heong; Krishnan, Puspanathan; Matsumoto, Akihiko; Yeoh, Fei-Yee Source: *Applied Clay Science*, v 143, p 300-306, July 1, 2017, p 300-306, 7 p. Databases: Compendex Plus, Scopus, Web of Science
Detailed Show preview Full text Click to download full text

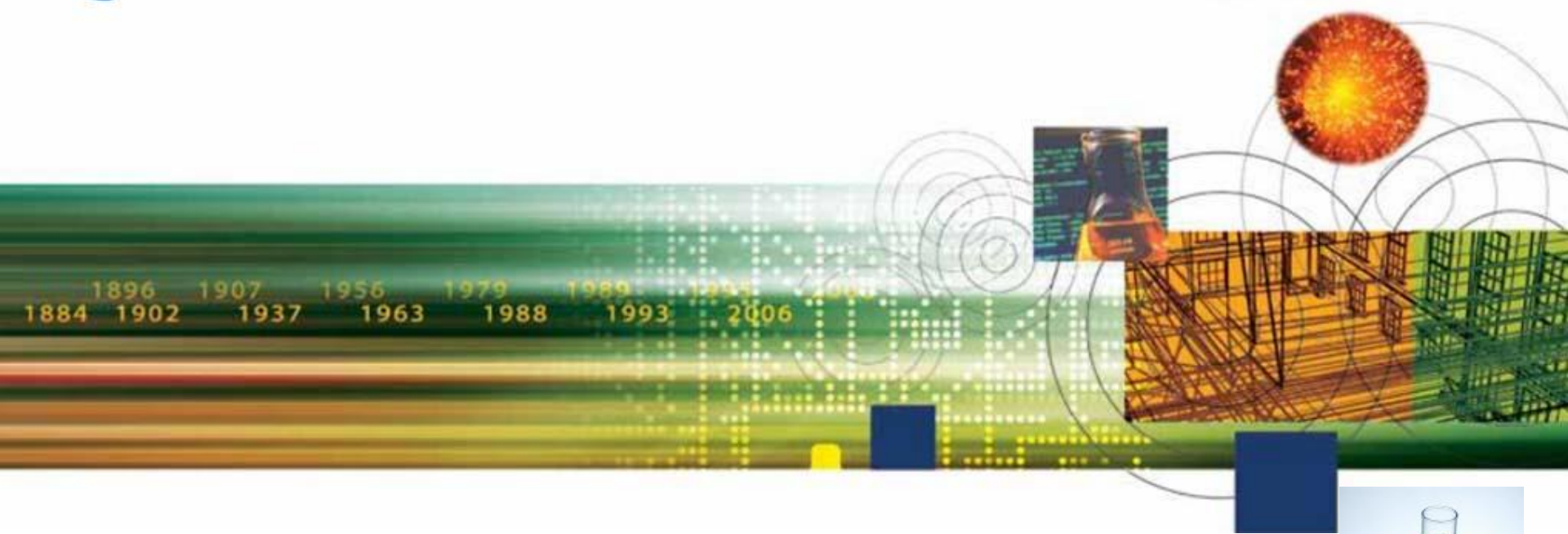
分析检索结果

- 点击  图标可以让您将图表输出成tab档案
- 您也可以将输出的档案以 **Excel** 软件开启分析管理



Refine Results 的用途

- 了解你的同行吗，他们又有哪些成就呢？
- 了解你关心的课题所涉及的领域，是否能发现新的研究方向
- 了解课题所处的生命周期，通过文献计量的年代分析
- 了解课题的热门期刊，作为投递文章的选择
- 通过文献类型了解论文的分布



Expert Search – 专家检索



Expert Search – 专家检索

输入检索词汇和检索字段代码

Selected records 0

?

Create account

Expert search

Search for:

Eg.:smith wn AU and ("autonomous navigation" or radar*)

Reset form

检索代码

Databases ▾ Date ▾ Sort by ▾ Autostemming ▾ Search codes ^ Browse indexes ▾

Database	Code = Field	Code = Field
c = Compendex	AB = Abstract (c,i,n,pc,cm,cb,el,ep,g,f,u,e,k)	CVMA= Major term as a reagent (el,ep)
i = Inspec	AN = Accession number (c,i,n,pc,el,ep,g,f,k)	CVMN= Major term with no role (el,ep)
n = NTIS	AF = Affiliation/Assignee (c,i,n,pc,cm,el,ep,g,f,u,e)	MS = Map Scale (f)
pc = PaperChem	ALL = All fields (c,i,n,pc,cm,cb,el,g,f,u,e,k)	MP = Map Type (f)
cm = Chemica	ANN = Annotation (f)	MI = Material identity number (i)
cb = CBNB	AI = Astronomical indexing (i)	AG = Monitoring agency (n)
el = EnCompassLIT	AU = Author/Inventor (c,i,n,pc,el,ep,g,f,u,e,k)	NT = Notes (n)
ep = EnCompassPAT	AV = Availability (n,cb,f)	NU = see Numerical Data Codes (c,i)
n = CFOR&SE	CR = CAS registry number (cm,cb,el,en)	NI = Numerical indexing (i)

Codes displayed will depend on your current database selection

通配符

- *右截词-命中检索词起始部分相同的记录
- Learn* 命中learn, learns, learning, learned, learnt, learner(s), learner's, learnability, learnable

位置算符

- 词组检索 “ ” 或{}- 词间不能插词，词序不能颠倒
- “International Space Station”命中包含有词组“International Space Station”的记录

查收-人名检索

- ◆EI数据库的作者有九种写法： 以**娃哈哈** (Wa Haha) 老师为例 Wa haha or Wa ha-ha or Wa hh or Wa h-h or Wa h or haha wa or ha-ha wa or haha w or ha-ha w
- ◆建议大家采用截词符 “ * ” ，以三种形式来代替，并用其他检索字段来限制 Wa H* or haha w* or ha-ha w *
- ◆利用作者单位提高查准率
((Wa H*) or (haha w*) or (ha-ha w *)) wn au AND (XXX onear univ*) wn af)
- ◆用作者查不到某篇文章时，可用篇名试试

查收-机构检索

- 推荐检索式:
- 以清华大学为例
- (tsinghua onear univ* and (beijing or 100084 or china)) wn af and 2015 wn yr
- 由refine results - author affiliation可知，均为清华大学。
- （此检索式只供参考，在借鉴使用时一定要考虑自身情况优化）

不同科研时期EI的正确应用：

二、后续科研

- Expert Search **专家检索**
- Refine by physical property **数值搜索**
- Engineering Research Profile **工科研究档案**

Quick search: All fields for

Suggested terms:

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909,324 records found in Compendex for 1884-2020: ((Semiconductor) WN ALL) 1 of 3

Sort by: Relevance

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Search v Results v ⁷ Alerts ² Selected records ⁰ More v

Alerts and Saved searches

Name	Search query	Status	Recent pub	
<input type="checkbox"/> ((petroleum) WN ALL) <input type="button" value="edit"/>	<((petroleum) WN ALL) > More details v	<input checked="" type="checkbox"/> Alert	<input type="checkbox"/> Off	<input type="button" value="envelope"/>
<input type="checkbox"/> ((Semiconductor) WN ALL) <input type="button" value="edit"/>	<((Semiconductor) WN ALL) > More details v	<input checked="" type="checkbox"/> Alert	<input type="checkbox"/> Off	<input type="button" value="envelope"/>

重复查找很 辛苦



Search history

6 searches



Combine searches:

e.g. (#1 AND #2) NOT #3



View

Combine searches	Search query	Actions
#6 <input type="checkbox"/>	422073 results in (Compendex) for: ((petroleum) WN All fields) Details ▾	
#5 <input type="checkbox"/>	385 results in (Compendex) for: (((Li, Jianrong)) WN AU) Details ▾	
#4 <input type="checkbox"/>	1269 results in (Compendex) for: ((blueberry) WN All fields) Details ▾	
#3 <input type="checkbox"/>	124 results in (Compendex) for: (((Blueberry) WN ALL)) AND ((2018) WN YR) Details ▾	
#2 <input type="checkbox"/>	1269 results in (Compendex) for: ((Blueberry) WN All fields)	



Expert Search – 专家检索

选定标杆持续关注

Expert search:

(Semiconductor wn TI and Tsinghua University wn AF)

Improved noise characteristics of mutually injection locked **semiconductor** lasers in a weak coupling regime [\(Open Access\)](#)

Ke, Xu (Beijing National Research Center for Information Science and Technology (BNRist), Department of Electronic Engineering, **Tsinghua University**, Beijing; 100084, China); **Ma, Weichao**; **Xiong, Bing**; **Sun, Changzheng**; **Hao, Zhibiao**; **Han, Yanjun**; **Wang, Jian**; **Wang, Lai**; **Li, Hongtao**; **Yu, Jiadong**; **Luo, Yi** Source: *Japanese Journal of Applied Physics*, v 58, n 6, 2019

Database: Compendex

Document type: Journal article (JA)

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315 records found in Compendex for 1884-2020: (Semiconductor wn TI and Tsinghua University wn AF)

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1884 1896 1902 1907 1937 1956 1963 1979 1988 1983 1993 1995 2006

Refine by physical property 数值搜索

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2,305 records found in Compendex for 1884-2020: ((cmos) WN ALL) * + (NU_SIZE LTE 14 nm) * 1 of 93 pages >

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Refine

By physical property
Filter results by physical properties such as size, temperature, pressure and many more.

Size
There are 2,305 total results for Size
14
Nanometer (nm) Refine

Controlled vocabulary
Cmos Integrated Circuits (1,444)
Mosfet Devices (444)
Gates (Transistor) (288)
Mos Devices (282)
Finfet (230)

Comparative analysis of standard cells performance for 7nm FinFET and 28nm CMOS technologies with considering for parasitic elements
Ilin, Sergey [JSC Molecular Electronics Research Institute, Moscow, Russia]; Ryzhova, Daria; Korshunov, Andrey Source: Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2018, v 2018-January, p 1360-1363, March 14, 2018, Proceedings of the 2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2018
Database: Compendex
Document type: Conference article (CA)
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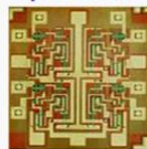
Effect of fin shape of tapered FinFETs on the device performance in 5-nm node CMOS technology
Kurniawan, Erry Dwi (Department of Engineering and System Science, National Tsing Hua University, Hsinchu, 300, Taiwan); Yang, Hao; Lin, Chia-Chou; Wu, Yung-Chun Source: Microelectronics Reliability, v 83, p 254-259, April 2018
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (3) Full text Check Local Full text

3. Testing system for radiation effects of CCD and CMOS image sensors
Li Yu-Dong (Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Urumqi 830611, China); Wang, Bo; Guo, Qi; Ma, Li-Ya; Ren, Jian-Wei Source: Guangxue Jingmi Gongcheng/Optics and Precision Engineering, v 21, n 11, p 2778-2784, November 2013
Language: Chinese
Database: Compendex
Document type: Journal article (JA)
Detailed Show preview Cited by in Scopus (24) Full text Check Local Full text

4. Opportunities and challenges of FinFET as a device structure candidate for 14nm node CMOS technology
Yamashita, T. (IBM Research, Albany Nanotech., Albany, NY 12203, United States); Basker, V.S.; Standaert, T.; Yeh, C.-C.; Faltermeier, J.

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Semiconductor manufacturing processes



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6 μm – 1974
3 μm – 1977
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600 nm – 1994
350 nm – 1995
250 nm – 1997
180 nm – 1999
130 nm – 2001
90 nm – 2004
65 nm – 2006
45 nm – 2008
32 nm – 2010
22 nm – 2012
14 nm – 2014
10 nm – 2017
7 nm – ~2018
5 nm – ~2020

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1884 1896 1902 1907 1937 1956 1963 1979 1988 1983 1993 1995 2006

Engineering research profile 工程报告检索


工程机构概述报告 (Engineering research Profile)

Engineering Research Profile NEW FEATURE

Summary of engineering research output for schools and research institutions.

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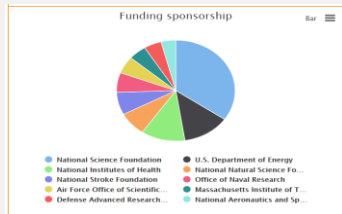
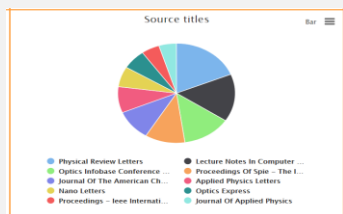
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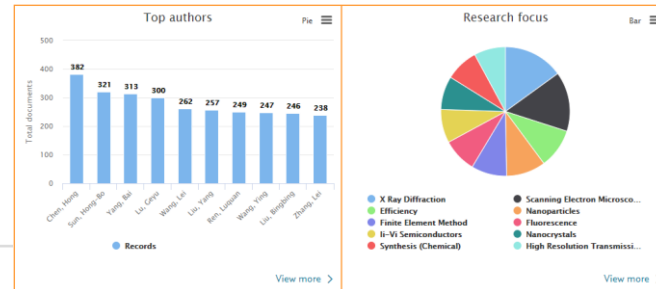
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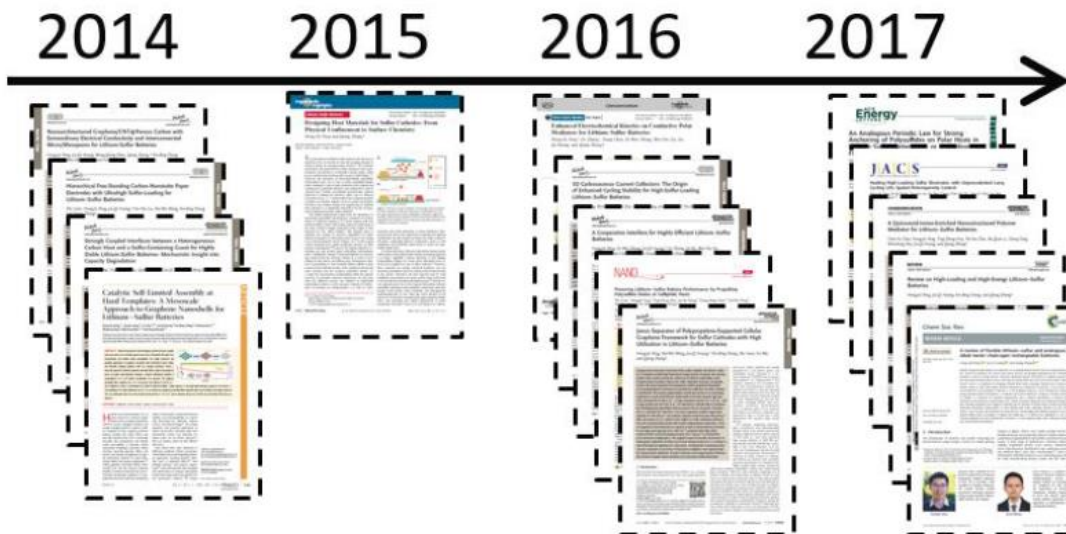
以第一作者身份（含共一）发表SCI论文17篇；总影响因子200+；

ESI高被引论文9篇，ESI热点论文1篇，总引用超2600次；

2015年 获得美国材料研究学会研究生奖。

2017年 获评清华大学“学术新秀”称号。

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钢铁是怎样炼成的



Ironman



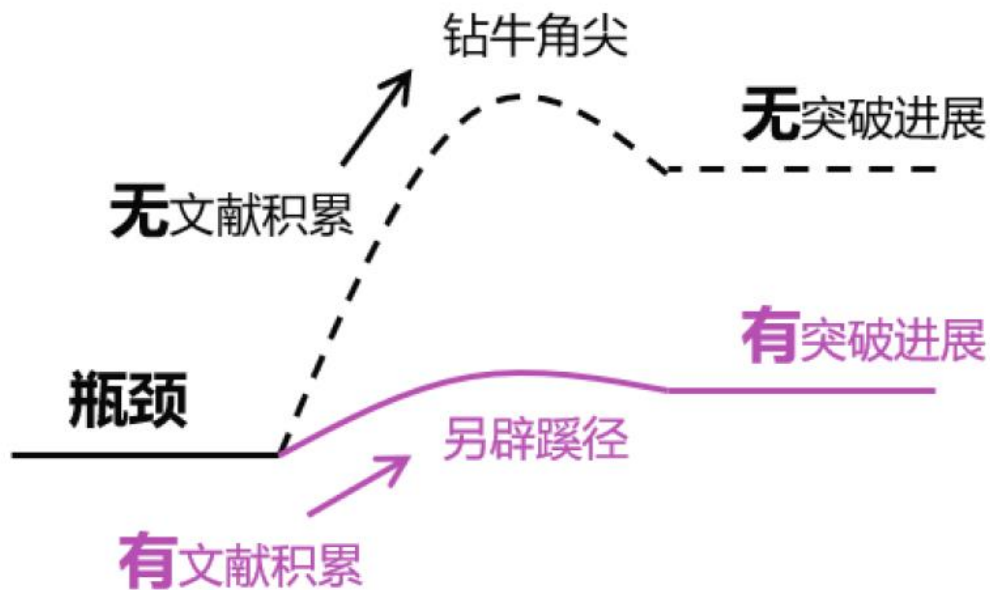
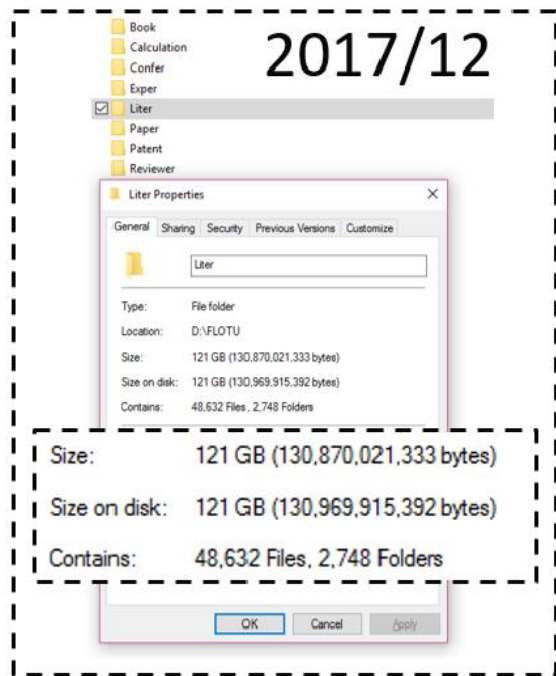
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Spiderman

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Folderman!
文件夹哥
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Record

Record 1 from Compendex for: ((water) WN All fields), 1884-2018

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Abstract

Detailed

Compendex Refs 43

Water dem

Kozłowski, Edward

Source: Archives
10.1016/j.acme.2

Author affiliation
Management, Na
Lublin Universi
Nadbystrzycka 40

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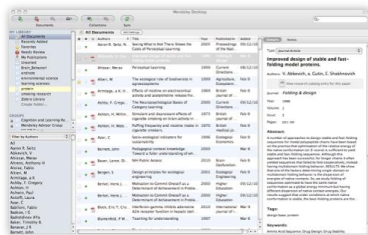


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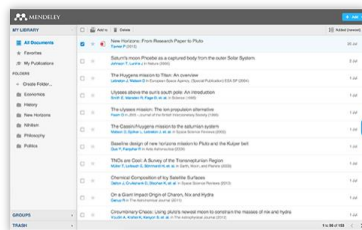
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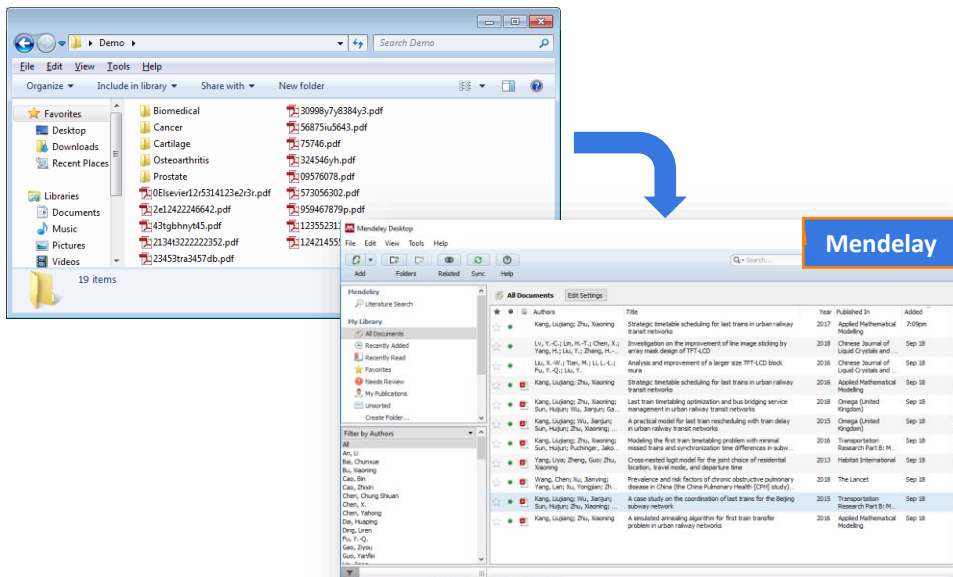
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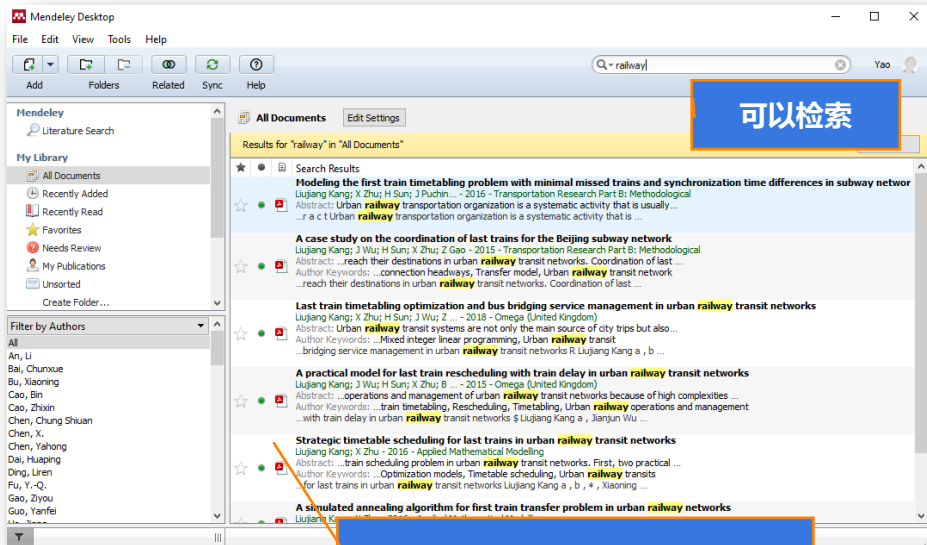
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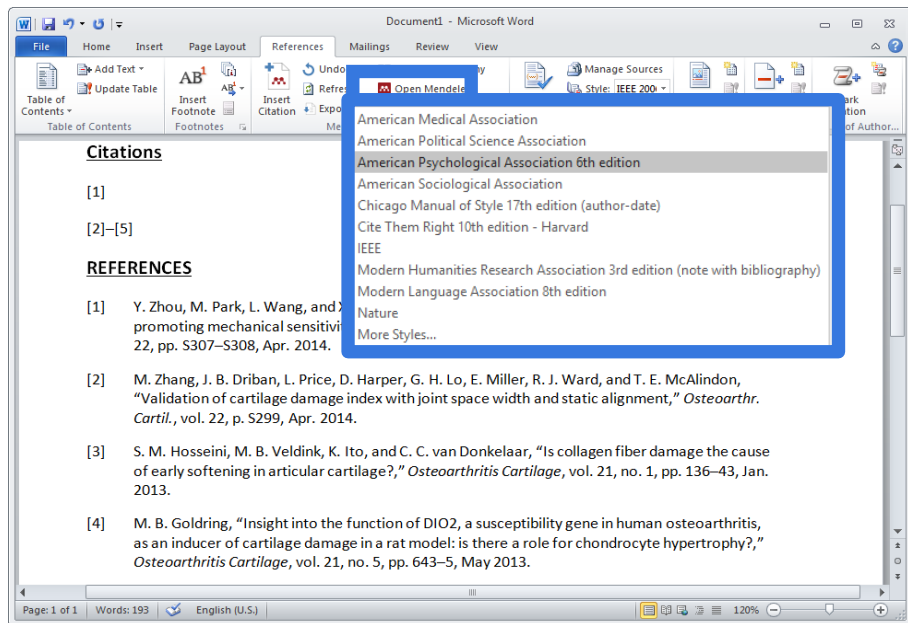
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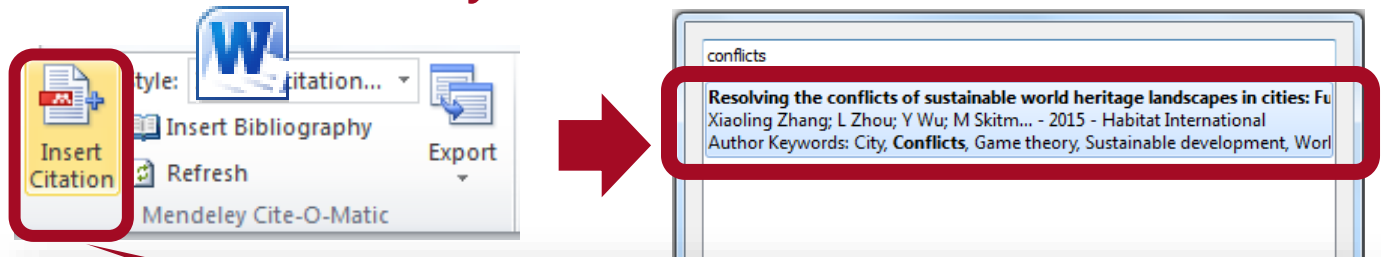


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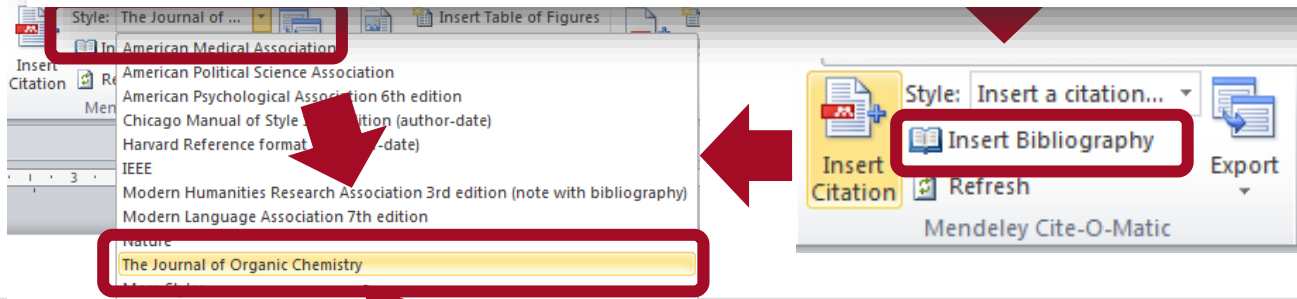


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(1) Zhang, X.; Zhou, L.; Wu, Y.; Skitmore, M.; Deng, Z. *Habitat Int.* 2015, 46, 91–100.

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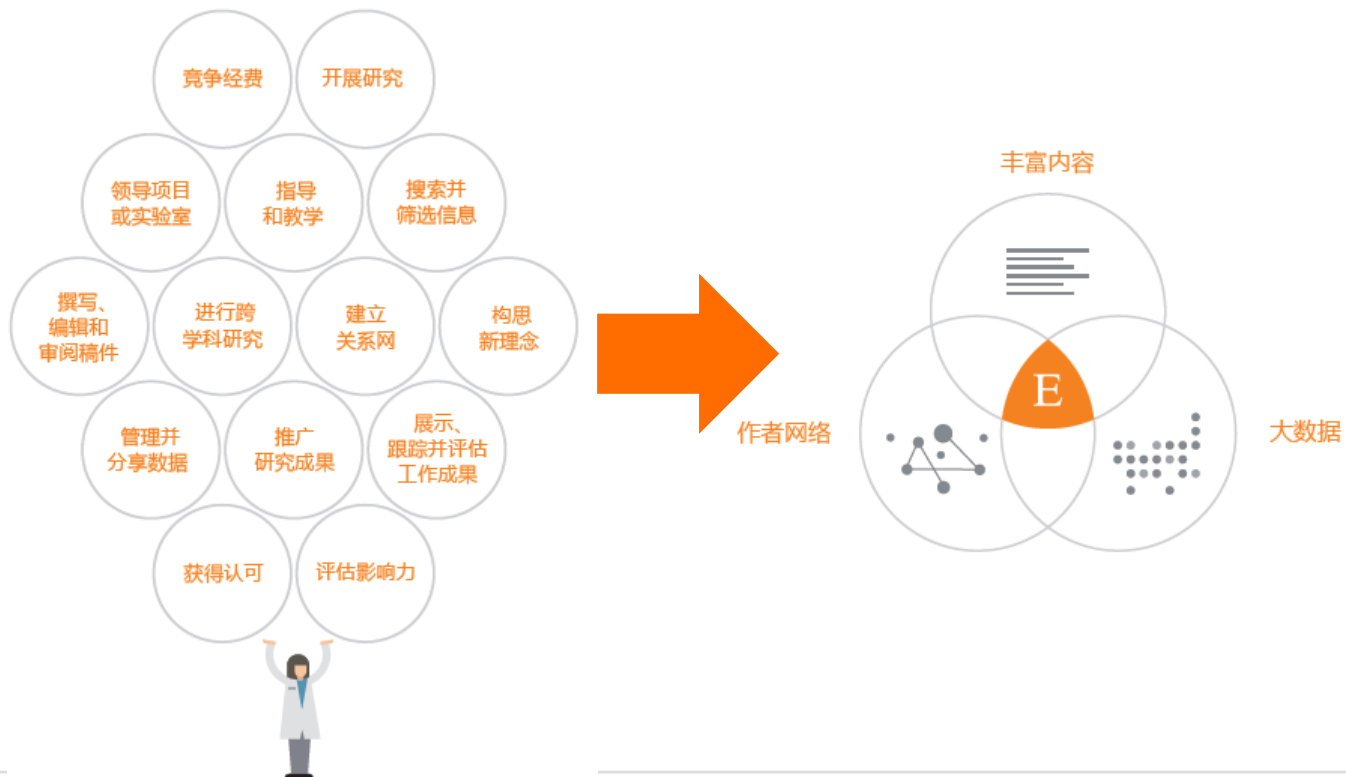
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