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Comparison of NMR structural and dynamics features of the urea and guanidine-denatured states of GED

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ABSTRACT

Denatured states of proteins, the starting points as well as the intermediates of folding *in vivo*, play important roles in biological functions. In this context, we describe here urea and guanidine denatured states of the effector domain of CTPase (GED) of dynamins revealed by NMR. These are compared with similar data for guanidine-induced denaturation reported earlier. The unfolding characterizations in the two cases are measured by optical probes, are significantly different, one unfolding proceeding via an intermediate. The structural and motional characteristics, determined by NMR, of the two denatured states are strikingly different. The urea-denatured state shows a combination of α - and β -preferences in contrast to the exclusively β -preference in the guanidine-denatured state. Higher ¹⁵N longitudinal relaxation rates suggest higher folding propensity in the urea-denatured state. The implications of these to GED folding are discussed.

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Denatured states of proteins are beginning to be recognized as important entities in the biological world—a denatured state of a protein is defined as the lowest energy “non-native” state under a given set of conditions [1]. Inside a living cell, the environmental conditions like local intracellular ion concentrations, interaction with various ligands etc. can vary significantly from organism to organism [2], and even within the same organism there can be variations due to signaling processes and interactions with different molecules. All these processes tightly regulate the translational and post-translational processes which decide the fate of the newly synthesized polypeptide chain. Thus a particular protein may see different environments which lead to different denatured states during the course of its function. Some of the denatured states may lead to soluble aggregates, which occasionally lead to diseases [3].

When a polypeptide chain begins to fold starting from a denatured ensemble, each molecule in the ensemble can, in principle, fold along a different path. In this scenario, the starting state in terms of the conformational preferences across the polypeptide chain will have a significant influence on the path the molecule adopts; different denaturing environments inside a cell can create different initial states for the protein to fold from. If the chain already has some structure, that may form the nucleus for additional structure to build upon, and this will reduce the search options for the polypeptide chain in the multi-dimensional conformational space. It can also happen that the existing structure may have to

be removed for a new structure to get formed for the protein to move towards the native state. Thus the number of folding paths for a given protein would be dictated by the number and nature of structural preferences across the length of the chain. In view of all these, it is important to understand the characteristics of the various denatured states, with regard to their topologies, heterogeneities and motional characteristics, their modulation due to changes in environmental conditions, etc. at atomic level detail. *In vitro*, different denatured states can be created by use of different denaturants, such as, Gdn-HCl, urea, SDS, extreme pH conditions, etc. Although these may not exactly represent the denatured states, *in vivo*, they help sample the ensemble quite widely and thus allow investigation of the folding processes, in general.

In this background, we present here a comparative study of the structural and dynamics characteristics of urea-denatured and Gdn-HCl-denatured states of the CTPase effector domain (GED) of dynamins, a crucial protein in clathrin mediated endocytosis. GED plays important roles both in dynamin assembly around the neck of the clathrin coated vesicles, and assists the N-terminal CTPase domain in GTP hydrolysis required for dynamin function [4,5]. The recombinant form of GED has been shown to self-assemble and form large megadalton-sized oligomers *in vitro* [6,7] even at micro-molar concentrations. We first describe the global characteristics of urea-mediated unfolding of GED, as studied by optical techniques including CD and fluorescence and then the residue-

specific details about the perturbations caused by 9.7 M urea using NMR and finally compare the urea-mediated unfolding with that using Gdn-HCl. Gdn-HCl is highly charged as compared to urea which is neutral and this is expected to have an influence on the unfolding mediated by the two denaturants; the former may lead to more collapsed state due to electrostatic screening. Our data reveal that the unfolding mechanisms by the two denaturants are indeed different. Whereas Gdn-HCl unfolding is two-state [8], urea-mediated unfolding is more complex, and hence the structural and dynamics characteristics of the denatured states created by the two are different. These provide clues about the differences in the potential folding initiation sites for the folding that may follow on dilution of the denaturants. This study will form the basis for a detailed elucidation of the urea dilution driven self-association pathway of the protein, along the same lines as has been recently demonstrated in the case of self-association driven by guanidine diuron [7]. Consequently, the variability in the assembly details—high resolution picture of which is still unknown—if any, can be unraveled.

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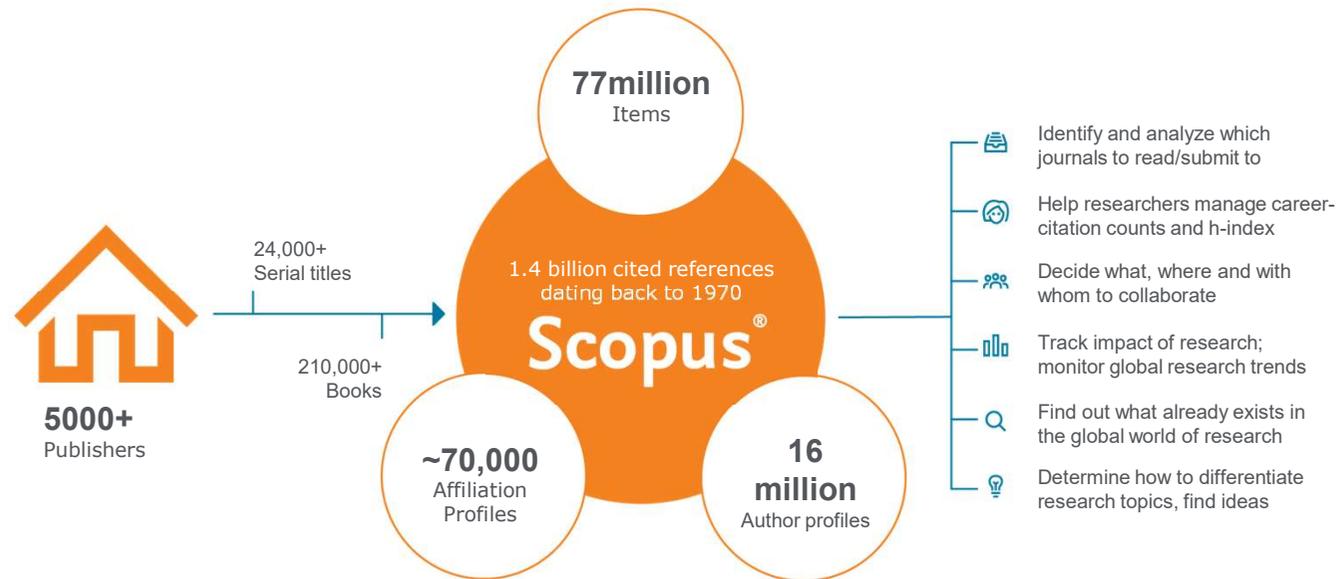
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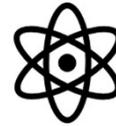
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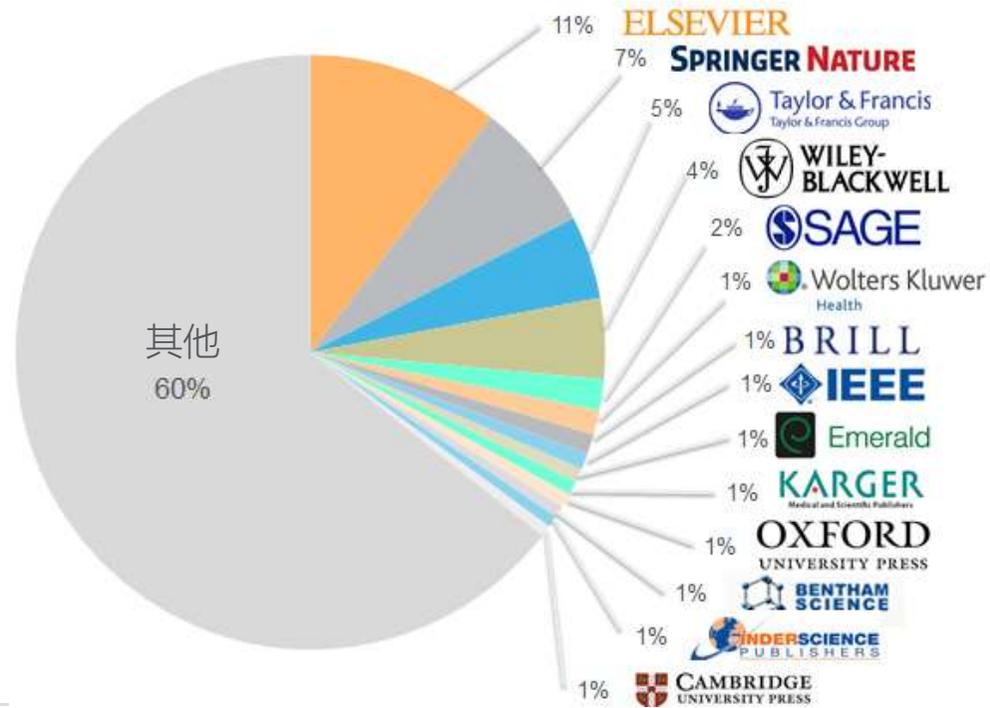
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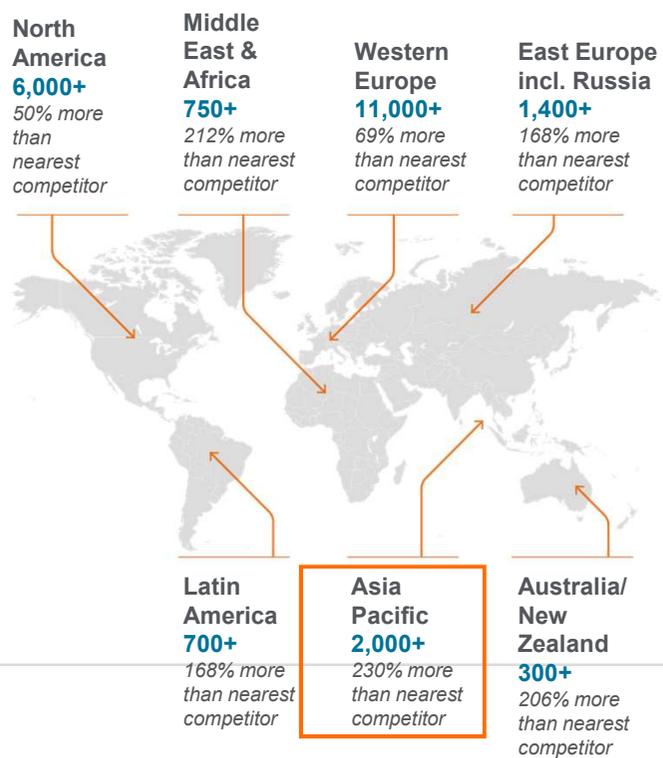
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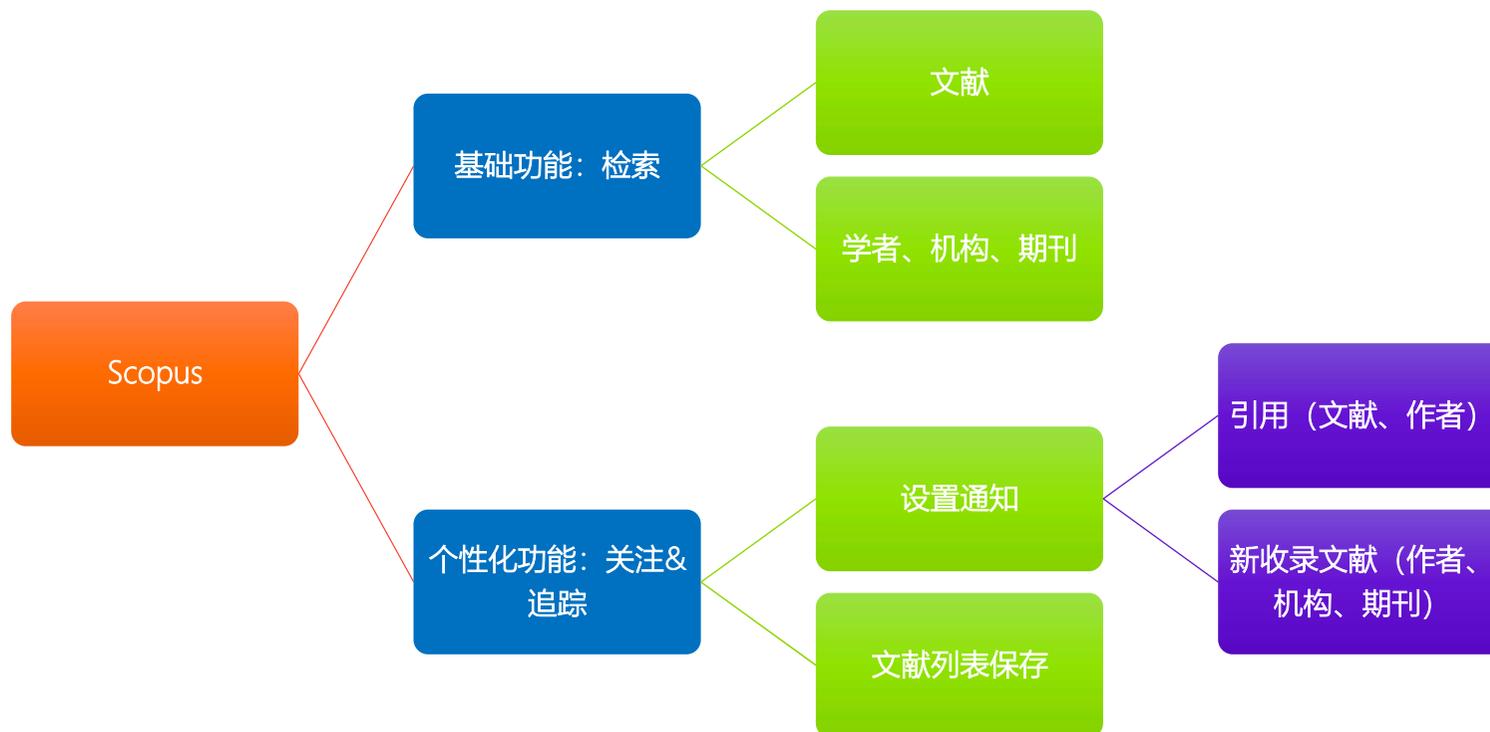
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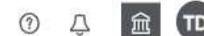
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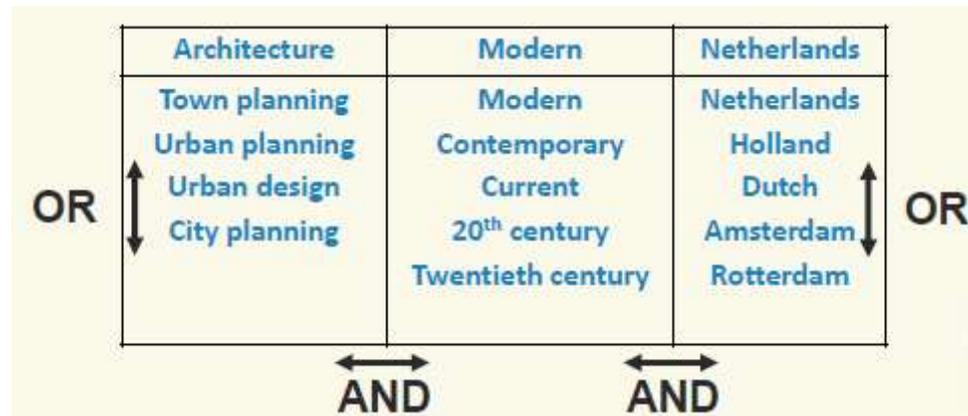
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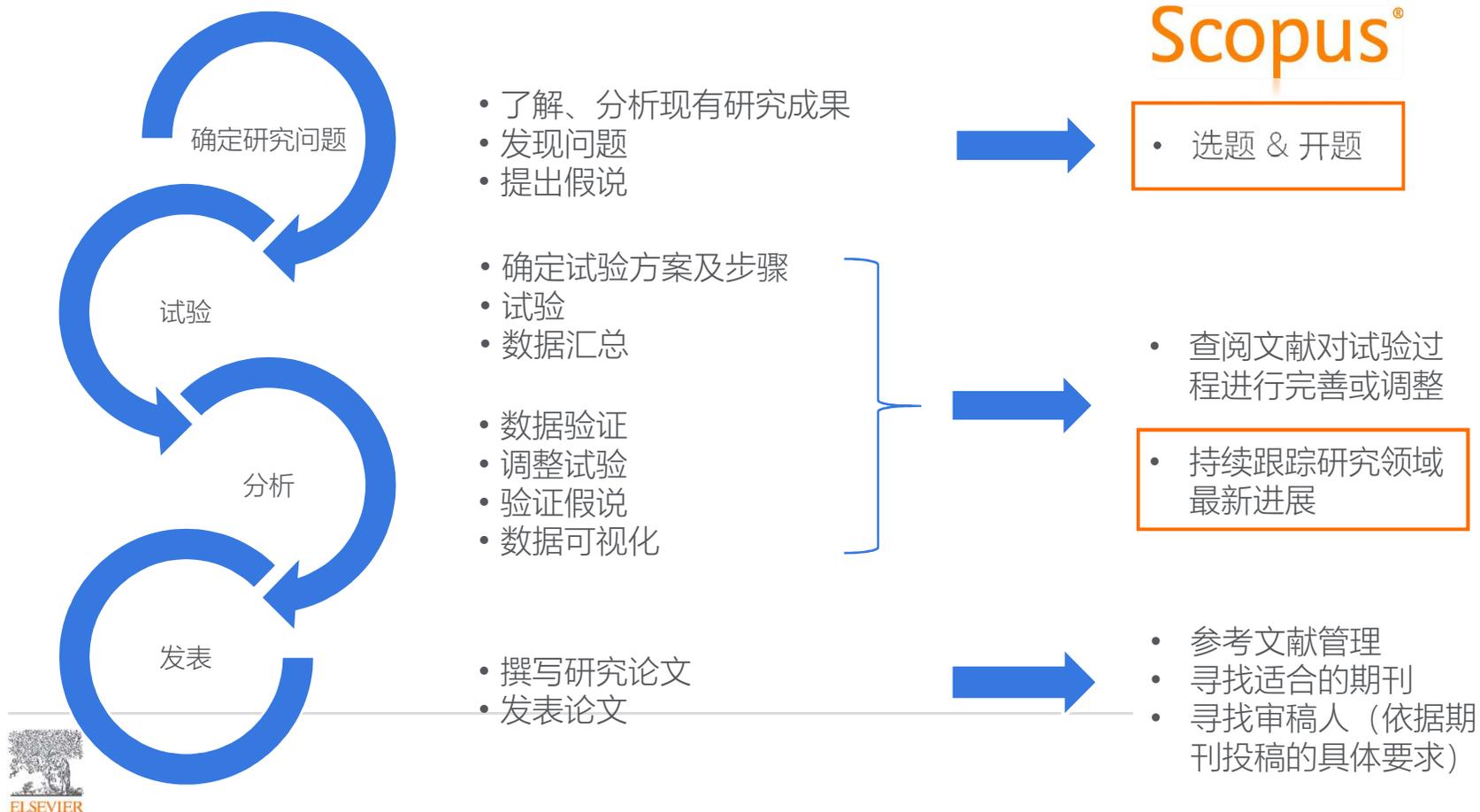
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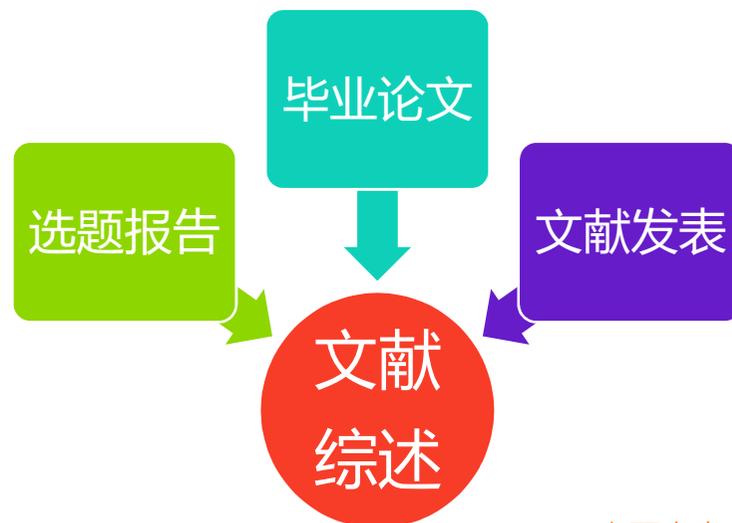


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* 第一次使用需先安装扩展程序（支持Chrome及Firefox浏览器）

157,123 文献搜索结果

TITLE-ABS-KEY ("solar cells")

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访问类型

- Open Access (15,080) >
- Other (142,043) >

年份

- 2020 (3,056) >
- 2019 (12,800) >
- 2018 (13,640) >
- 2017 (13,011) >

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文献标题	作者	年份	来源出版物	施引文献
1 Rational design of novel N-doped polyaromatic hydrocarbons as donors for the perylene based dye-sensitized solar cells	Karuppusamy, M., Choutipalli, V.S.K., Vijay, D., Subramanian, V.	2020	Journal of Chemical Sciences 132(1),20	0
查看全文 <input type="button" value="Full Text"/> View at Publisher 相关文献				
2 WS ₂ : A New Window Layer Material for Solar Cell Application 公开访问	Bin Rafiq, M.K.S., Amin, N., Alharbi, H.F., (...), Bais, B., Akhtaruzzaman, M.	2020	Scientific Reports 10(1),771	0
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选题和开题

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Scopus 文献下载管理器

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SCIENTIFIC REPORTS

OPEN Performance comparison of
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junction solar cells fabricated by
the combination of mechanical
stacking and wire bonding

Received: 11 November 2018
Accepted: 19 February 2019
Published online: 13 March 2019



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访问类型

年份

来源出版物类型

学科类别

文献类型

来源出版物标题

关键字

作者姓名

出版阶段

归属机构

来源出版物标题

- Conference Record Of The IEEE Photovoltaic Specialists Conference (7,687) >
- Solar Energy Materials And Solar Cells (5,566) >
- Proceedings Of SPIE The International Society For Optical Engineering (2,953) >
- Thin Solid Films (2,822) >
- Applied Physics Letters (2,820) >
- Journal Of Applied Physics (2,250) >
- ACS Applied Materials And Interfaces (2,178) >

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显示所有摘要 排序对象: 日期 (最新)

作者	年份	来源出版物	施引文献
nylene based dye- Karuppusamy, M., Choutipalli, V.S.K., Vijay, D., Subramanian, V.	2020	Journal of Chemical Sciences 132(1),20	0
Bin Rafiq, M.K.S., Amin, N., Alharbi, H.F., (...), Bais, B., Akhtaruzzaman, M.	2020	Scientific Reports 10(1),771	0
device performance Zhang, K., Wang, Z., Wang, G., (...), Xiao, S., Yang, S.	2020	Nature Communications 11(1),1006	0

uniformity 公开访问

选题和开题

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TITLE-ABS-KEY ("solar cells") AND (LIMIT-TO (EXACTSRCTITLE, "Solar Energy Materials And Solar Cells"))

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分析搜索结果 显示所有摘要 排序对象 **日期 (最新)**

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文献标题	作者	年份	来源出版物	施引文献
1 Light coupling to quasi-guided modes in nanoimprinted perovskite solar cells	Schmager, R., Hossain, I.M., Schackmar, F., (...), Gomard, G., Paetzold, U.W.	2019	Solar Energy Materials and Solar Cells 201,110080	0
2 Ultrathin Janus WSSe buffer layer for W(S/Se) ₂ absorber based solar cells: A hybrid, DFT and macroscopic, simulation studies	Chaurasiya, R., Gupta, G.K., Dixit, A.	2019	Solar Energy Materials and Solar Cells 201,110076	0

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选题和开题

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The screenshot shows the Scopus Source Explorer interface. At the top, there is a search bar and a 'Sources' button. A red box highlights the 'Sources' button with the text '切换至来源出版物搜索页面'. Below the search bar, there is a dropdown menu for '学科类别' (Subject Categories) with a red box around it. The main content area shows a search for 'materi' with a list of subject categories. A red box highlights 'Materials Chemistry' with the text '按学科类别则选择相应学科'. To the right, there is a callout box with the text 'Scopus学科类别: 27个一级学科, 334个二级学科'. Below the subject categories, there is a table of source publications. The table has columns for '来源出版物名称', 'CiteScore', '最高百分位数', '引文', '文献', and '被引用比率'. The first row shows 'Ca-A Cancer Journal for Clinicians' with a CiteScore of 160.19 and 99% highest percentile. The second row shows 'MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports /' with a CiteScore of 87.75 and 99% highest percentile.

切换至来源出版物搜索页面

按学科类别则选择相应学科

Scopus学科类别: 27个一级学科, 334个二级学科

来源出版物名称	CiteScore	最高百分位数	引文	文献	被引用比率
Ca-A Cancer Journal for Clinicians Copac, E Z B Hematology	160.19	99% 1/120	20,184	126	77
MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports /	87.75	99% 1/89	1,053	12	100

选题和开题

获取前沿研究信息 – 查看领域中重要期刊（期刊质量）中最新发表文献

学科类别



输入学科类别

学科: Materials Chemistry x



期刊和丛书的 CiteScore 度量标准

Scopus 中的 CiteScore 度量标准是:

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- 易懂
- 最新且免费

使用此页面查找来源出版物并查看关联的度量标准。在展示研究影响时使用定性和定量度量标准。务必使用多个定量度量标准。更多了解 CiteScore。



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文献

(前 3 年)

CiteScore 最高千分位数

仅显示前 10% 的标题

第一四分位数

第二四分位数

第三四分位数

ELSEVIER

334 个结果

查看期刊排名

下载 Scopus 来源出版物列表

查看如下年份的度量标准: 2017

查看顶级期刊 (按 CiteScore 排名)

来源出版物名称 ↓	CiteScore ↓	最高百分位数 ↓	引文 2017 ↓	文献 2014-16 ↓	被引用比率 ↓	SNIP ↓
Journal of Materials Reviews Materials	25.79	99% 1/76 Biomaterials	2,631	102	66	9.922
Progress in Polymer Science 	24.94	99% 1/96 Ceramics and Composites	4,289	172	98	7.288
Surface Science Reports 	15.1	99% 3/259 Materials Chemistry	468	31	97	5.591

来源出版物 – 出版物评价指标

期刊指标	基本思想	引文区间	权重处理	自引处理	考虑因素
Citescore (期刊引用影响力指标)	期刊前三年发表的论文在统计年的被引频次与该期刊前三年发表的文章总数之比	3年	无	包含自引	期刊发文量+引文量
SJR指数 (期刊声望指标)	由学术期刊被引用多少次与这些引用是来自哪里的重要性或声望性来衡量期刊的影响力。期刊越多的被高声望的期刊引用，期刊的声望就越高	3年	有	限制比例 (33%)	期刊发文量+引文量+引证期刊声望
SNIP指数 (期刊标准化指标)	从篇均引文数的角度减少不同主题领域引用行为的差异，实现不同主题领域来源期刊的直接比较	3年	有	包含自引	期刊发文量+引文量+学科领域间引用行为的差异

选题和开题

获取前沿研究信息 – 查看领域中重要期刊（期刊质量）中最新发表文献

来源出版物详情

反馈 > 比较来源出版物 >

Progress in Polymer Science

Scopus 涵盖范围年份: 1967, 从 1970 到 1971, 1975, 从 1977 到 1978, 从 1980 到 1986, 从 1988 到 2019

出版商: Elsevier

ISSN: 0079-6700

学科类别: [Materials Science: Ceramics and Composites](#) [Physics and Astronomy: Surfaces and Interfaces](#) [Materials Science: Polymers and Plastics](#) [Chemistry: Organic Chemistry](#) [Materials Science: Materials Chemistry](#)

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CiteScore 2018
24.32

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SJR 2018
6.365

SNIP 2018
6.302

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CiteScore 2018

使用来自 30 April, 2019 的数据计算

24.32 =

引文计数 2018

3,600 次引用 >

*文献 2015 - 2017

148 篇文献 >

*CiteScore 包括所有可用的文献类型

[查看 CiteScore 的计算方法 >](#) [CiteScore 常见问题解答 >](#)

CiteScoreTracker 2019

上次更新时间 06 February, 2020
每月更新

26.96 =

引文计数 2019

到目前为止 4,260 次引用 >

*文献 2016 - 2018

到目前为止 158 篇文献 >

CiteScore 排名

类别	排名	百分位
Materials Science Ceramics and Composites	#1/103	99th
Physics and Astronomy Surfaces and Interfaces	#1/53	99th
Materials Science Polymers and Plastics	#1/147	99th

选题和开题

获取前沿研究信息 – 查看领域中重要期刊（期刊质量）中最新发表文献

119 文献搜索结果

SOURCE-ID (26465) AND (LIMIT-TO (EXACTKEYWORD, "Biodegradation") OR LIMIT-TO (EXACTKEYWORD, "Biodegradable Polymers") OR LIMIT-TO (EXACTKEYWORD, "Biopolymers") OR LIMIT-TO (EXACTKEYWORD, "Biological Materials"))

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按发表日期最新排列

在搜索结果内搜索...

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访问类型

- Open Access (3) >
- Other (116) >

年份

- 2020 (2) >
- 2019 (5) >
- 2018 (8) >
- 2017 (5) >
- 2016 (4) >

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分析搜索结果

显示所有摘要

排序对象: 日期 (最新)

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文献标题	作者	年份	来源出版物	施引文献
1 Development, processing and applications of bio-sourced cellulose nanocrystal composites 公开访问	Calvino, C., Macke, N., Kato, R., Rowan, S.J.	2020	Progress in Polymer Science 101221	0
查看全文摘要 Full Text View at Publisher 相关文献				
2 Micro- and nano-layered processing of new polymeric systems 公开访问	Li, Z., Olah, A., Baer, E.	2020	Progress in Polymer Science 101210	0
待刊论文				

选题和开题

获取前沿研究信息 – 查看领域中重要期刊（期刊质量）中最新发表文献

过滤依据 关键字

- Polymers
- Synthesis (chemical)
- Polymerization
- Monomers
- Functional Polymers
- Block Copolymers
- Molecular Structure
- Macromolecules
- Organic Polymers
- Free Radical Polymerization
- Crosslinking
- Self Assembly
- Nanocomposites
- Drug Delivery
- Copolymerization
- Polymer Blends
- Mechanical Properties
- Medical Applications
- Tissue Engineering
- Biocompatibility
- Copolymers
- Hydrogels

- (346) > Biodegradation
- (182) > Biodegradable Polymers
- (170) > Membranes
- (142) > Polyelectrolytes
- (137) > Crystallization
- (105) > Composite Materials
- (103) > Proteins
- (97) > Solvents
- (84) > Biopolymers
- (83) > Polymer
- (79) > Anionic Polymerization
- (79) > Graft Copolymers
- (77) > Biological Materials
- (73) > Conjugated Polymers
- (67) > Molecular Dynamics
- (66) > Polyesters
- (62) > Rheology
- (61) > Conducting Polymers
- (61) > Liquid Crystal Polymers
- (60) > Scaffolds (biology)
- (58) > Solubility
- (56) > Characterization

- (42) >
- (41) >
- (41) >
- (40) >
- (38) >
- (37) >
- (37) >
- (37) >
- (36) >

通过文献类型、关键字等方式精简搜索结果缩小范围

过滤依据 文献类型

- Article (3,489) >
- Review (516) >
- Editorial (394) >
- Letter (326) >
- Note (146) >
- Conference Paper (91) >
- Short Survey (53) >
- (79) >

选题和开题

了解领域中的研究历史和研究背景 – 文献搜索结果分析

157,123 文献搜索结果

TITLE-ABS-KEY ("solar cells")

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文献标题	作者	年份	来源出版物	施引文献
<input type="checkbox"/> 1 Rational design of novel N-doped polyaromatic hydrocarbons as donors for the perylene based dye-sensitized solar cells	Karuppusamy, M., Choutipalli, V.S.K., Vijay, D., Subramanian, V.	2020	Journal of Chemical Sciences 132(1),20	0
<input type="checkbox"/> 2 WS ₂ : A New Window Layer Material for Solar Cell Application 公开访问	Bin Rafiq, M.K.S., Amin, N., Alharbi, H.F., (...), Bais, B., Akhtaruzzaman, M.	2020	Scientific Reports 10(1),771	0

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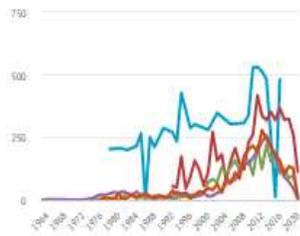
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快速了解发文年份变化、高发文国家/地区、作者、机构、学科交叉等背景信息

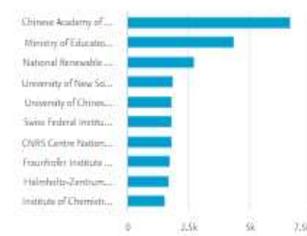
按来源出版物划分的各年度文献



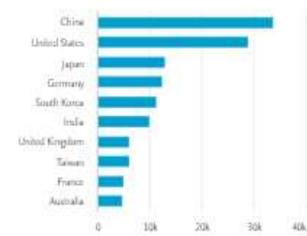
按作者划分的文献



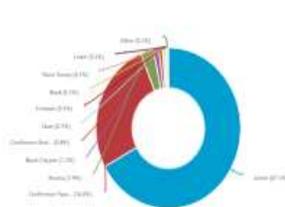
按归属机构划分的文献



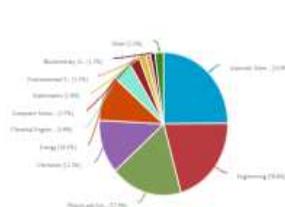
按国家/地区划分的文献



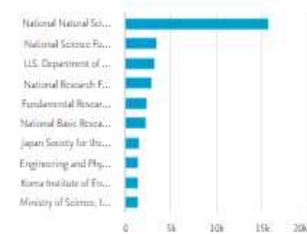
按类型划分的文献



按学科类别划分的文献



按资金赞助商划分的文献



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157,123 文献搜索结果

TITLE-ABS-KEY ("solar cells")

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年份

来源出版物类型

学科类别

文献类型

- Article (105,392) >
- Conference Paper (42,065) >
- Review (4,479) >
- Book Chapter (1,879) >
- Conference Review (1,259) >
- Note (518) >
- Erratum (465) >
- Book (295) >

利用文献类型精简
搜索结果至Review

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文献标题	作者	年份	来源出版物	施引文献
of novel N-doped polyaromatic hydrocarbons as donors for the perylene based dye-sensitized solar cells	Karuppusamy, M., Choutipalli, V.S.K., Vijay, D., Subramanian, V.	2020	Journal of Chemical Sciences 132(1),20	0
WS ₂ : A New Window Layer Material for Solar Cell Application	Bin Rafiq, M.K.S., Amin, N., Alharbi, H.F., (...), Bais, B., Akhtaruzzaman, M.	2020	Scientific Reports 10(1),771	0
A prerenucation strategy for ambient fabrication of perovskite solar cells with high device performance uniformity	Zhang, K., Wang, Z., Wang, G., (...), Xiao, S., Yang, S.	2020	Nature Communications 11(1),1006	0

选题和开题

了解领域中的研究历史和研究背景 – 文献综述

4,479 文献搜索结果

TITLE-ABS-KEY("solar cells") AND (LIMIT-TO(DOCTYPE, "re"))

编辑 保存 设置通知 设置推送流

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精简搜索结果

限制范围 排除

访问类型

年份

来源出版物类型

学科类别

文献类型

Review (4,479)

来源出版物标题

关键字

作者姓名

出版阶段

Documents Secondary documents

分析搜索结果

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文献标题	作者	年份	来源	施引文献 (最多数量)
1 Review on sun tracking technology in solar PV system 公开访问	Awasthi, A., Shukla, A.K., Murali Manohar, S.R., (...), Porwal, D., Richhariya, G.	2020	Ene...	6, p...
2 Evaluation of solar module equivalent models under real operating conditions - A review	Baig, M.Q., Khan, H.A., Ahsan, S.M.	2020	Journal of Renewable and Sustainable Energy	12(1),012701
3 Silicon prepared by electro-reduction in molten salts as new energy materials	Jiang, T., Xu, X., Chen, G.Z.	2020	Journal of Energy Chemistry	47, pp. 46-61

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查看摘要 Full Text View at Publisher 相关文章

查看摘要 Full Text View at Publisher 相关文章

日期 (最新)

日期 (升序)

施引文献 (最多数量)

施引文献 (最少数量)

相关性

第一作者 (A-Z)

第一作者 (Z-A)

来源出版物名称 (A-Z)

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- 按照出版日期排序：锁定领域中刚发表的综述

选题和开题

了解领域中的研究历史和研究背景 – 高影响力文献

157,123 文献搜索结果

TITLE-ABS-KEY ("solar cells")

编辑 保存 设置

在搜索结果内搜索...

精简搜索结果

限制范围 排除

访问类型

年份

来源出版物类型

学科类别

文献类型

Article (105,392) >

Conference Paper (42,065) >

Review

Book Chapter

Conference Review

关键字

- Solar Cells (82,738) >
- Thin Films (15,403) >
- Power Conversion Efficiencies (13,309) >
- Silicon Solar Cells (12,533) >
- Photovoltaic Cells (12,448) >
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Volume 348, Issue 6240, 12 June 2015, Pages 1234-1237

High-performance photovoltaic perovskite layers fabricated through intramolecular exchange (Article)

Yang, W.S.¹, Noh, J.H.², Jeon, N.J.², Kim, Y.C.², Ryu, S.², Seo, J.², Seok, S.I.^{1,2}

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¹Division of Advanced Materials, Korea Research Institute of Chemical Technology, 141 Gajeong-Ro, Yuseong-Gu, Daejeon, 305-600, South Korea

²Department of Energy Science, Sungkyunkwan University, Suwon, 440-746, South Korea

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The band gap of formamidinium lead iodide (FAPbI₃) perovskites allows broader absorption of the solar spectrum relative to conventional methylammonium lead iodide (MAPbI₃). Because the optoelectronic properties of perovskite films are closely related to film quality, deposition of dense and uniform films is crucial for fabricating high-performance perovskite solar cells (PSCs). We report an approach for depositing high-quality FAPbI₃ films, involving FAPbI₃ crystallization by the direct intramolecular exchange of dimethylsulfoxide (DMSO) molecules intercalated in PbI₂ with formamidinium iodide. This process produces FAPbI₃ films with (111)-preferred crystallographic orientation, large-grained dense microstructures, and flat surfaces without residual PbI₂. Using films prepared by this technique, we fabricated FAPbI₃-based PSCs with maximum power conversion efficiency greater than 20%.

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Efficient inorganic-organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors

(2013) *Nature Photonics*, 7 (6), pp. 486-491. 被引用 1735 次
doi: 10.1038/nphoton.2013.80

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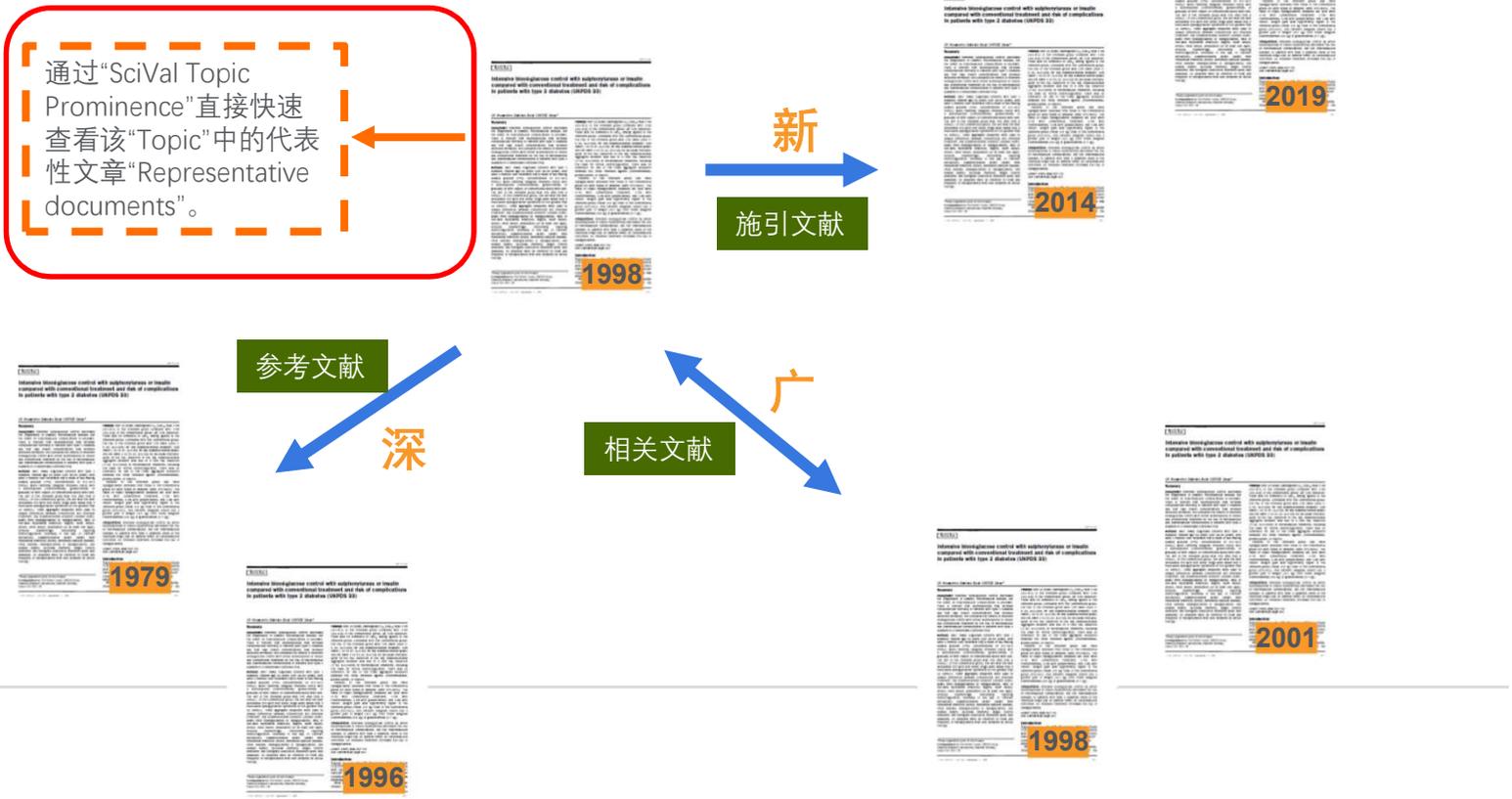
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2 WS ₂ : A New Window Layer Material for Solar Cell Application 公开访问	Bin Rafiq, M.K.S., Amin, N., Alharbi, H.F., (...), Bais, B., Akhtaruzzaman, M.	2020	Scientific Reports 10(1),771	0
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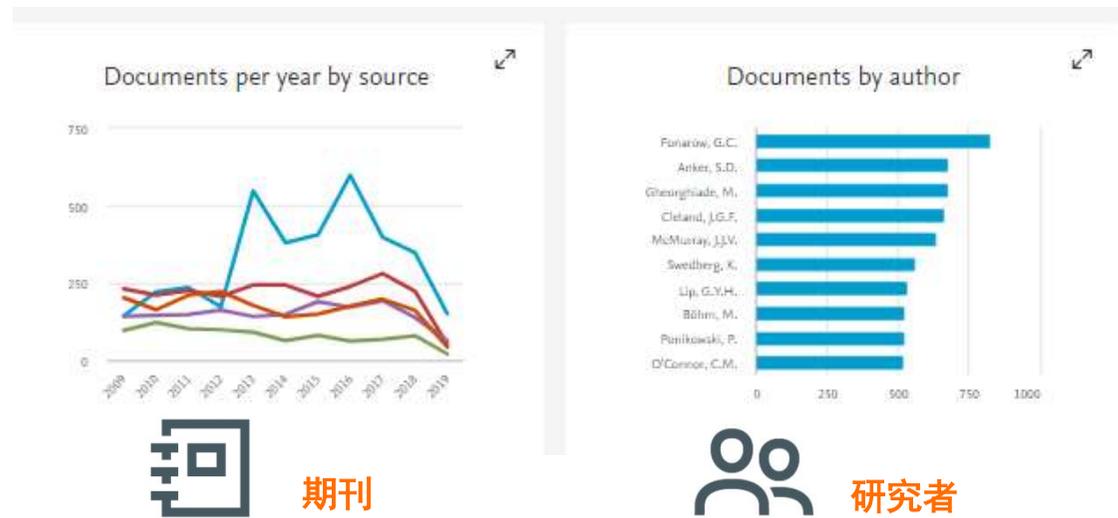
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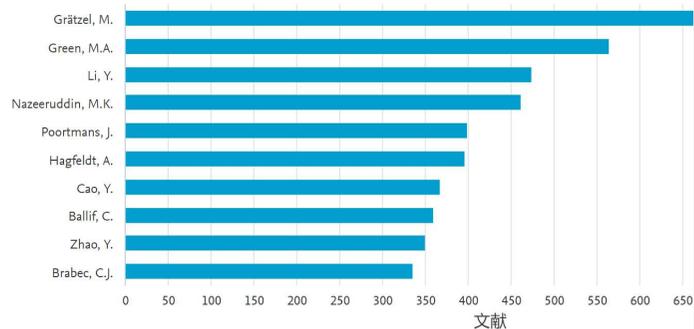
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选择要分析的年份范围: 1959 到 2020 分析

作者 ↑	文献 ↓
Grätzel, M.	777
Green, M.A.	563
Li, Y.	473
Nazeeruddin, M.K.	461
Poortmans, J.	398
Hagfeldt, A.	395
Cao, Y.	366
Ballif, C.	359
Zhao, Y.	349

按作者划分的文献
比较最多 15 位作者的文献数量



144,861 文献搜索结果

来源出版物 ↓	文献 ↑
Conference Record Of The IEEE Photovoltaic Specialists Conference	7687
Solar Energy Materials And Solar Cells	5566
Proceedings Of SPIE The International Society For Optical Engineering	2953
Thin Solid Films	2822
Applied Physics Letters	2821
Journal Of Applied Physics	2250
ACS Applied Materials And Interfaces	2181



通过文献搜索结果分析定位该领域的期刊及作者



小结



选题和开题

- 迅速了解领域中的研究历史和研究背景
- 获取前沿研究信息



持续跟踪研究领域最新进展

- 保证所开展研究的创新性

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- Tutorials
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157,123 文献搜索结果

TITLE-ABS-KEY ("solar cells")

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前5个常见问题

1. 什么是 Scopus 预览?
2. 如何搜索文献?
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联系人	联系电话	邮箱	工作时间
Scopus 支持中心	010-85208765	sginfo@elsevier.com	周一至周五 09:00-18:00

Scopus 教程

Scopus 教程提供关于使用产品的视觉指南。下面的教程也可以在 Scopus 支持中心的相关常见问题中找到。

▶ 搜索文献
本教程展示了如何使用关键字创建文献搜索、加强搜索的针对性以及使用之前的搜索。
仅教程文本

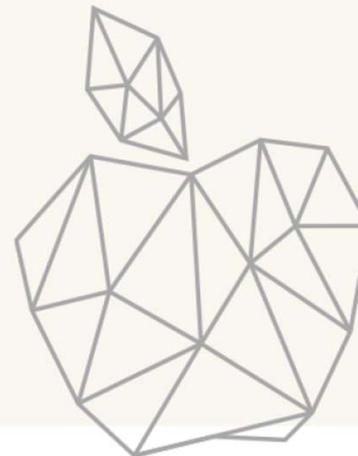
▶ 搜索作者
本教程显示了如何查找特定作者的出版物、如何设立通知来关注作者、如何提供有关作者详情的反馈以及创建作者分组。
仅教程文本

▶ 使用 Scopus 文章指标
本教程展示了 Scopus 如何使用 Article Metrics，如何使用它们来评估引用影响和社区参与级别，以及对 PlumX Metrics 的介绍。
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附录1 如何利用Mendeley进行参考文献管理

附录2 Elsevier Researcher Academy

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附录1

如何利用Mendeley进行参考文献管理

轻松管理文献写作

参考文献管理 - Mendeley® 

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- 随时随地在线访问您的论文
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- 从其他研究软件中导入论文 (在线服务器免费个人空间2GB)
- 使用iOS应用程序移动阅读论文
- 其他功能供使用：与其他科研人员在线协作，求职信息、基金申请信息等



轻松管理文献写作

参考文献管理 - 随时随地在线访问您的论文



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使用方法以桌面版
为例进行介绍

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Windows 7, 8.1 and 10. [See release notes.](#)



Other systems:  Mendeley Desktop for Mac OS  Mendeley Desktop for Linux

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直接从Scopus页面导入

导出文献设置

选择您的导出方法

MENDELEY RefWorks SciVal RIS 格式
EndNote 参考文献管理器

CSV Excel BibTeX 纯文本
ASCII 编码的 HTML

全部 保存到 Mendeley 下载 查看引文概览 查看施引文献 保存到列表 打印 邮件 分享

文献标题	作者	年份	来源出版物	施引文献
<input type="checkbox"/> 1 Identity and trust in government: A comparison of locals and migrants in urban China	Niu, G., Zhao, G.	2018	Cities 83, pp. 54-60	1
查看摘要 <input type="button" value="Full Text"/> View at Publisher 相关文章				

<input checked="" type="checkbox"/> 2 Internal differentiation within the rural migrant population from the sustainable urban development perspective: Evidence from China 公开访问	Deng, X., Gong, L., Gao, Y., Cui, X., Xu, K.	2018	Sustainability (Switzerland) 10(12),4839	0
查看摘要 <input type="button" value="Full Text"/> View at Publisher 相关文章				



文献导出
方式选择
Mendeley

文献详情

< 返回搜索结果 | < 上一个 11 / 805 下一个 >

保存到 Mendeley 下载 打印 保存到 PDF 保存到列表 [更多...](#)

Sustainability (Switzerland) [公开访问](#)
Volume 10, Issue 12, 18 December 2018, 论文编号 4839

Internal differentiation within the rural migrant population from the sustainable urban development perspective: Evidence from China (Article) ([公开访问](#))

Deng, X. , Gong, L. , Gao, Y. , Cui, X. , Xu, K.

School of Management Engineering, Shandong Jianzhu University, 1000 Fengming Road, Licheng District, Jinan, 250101, China



轻松管理文献写作

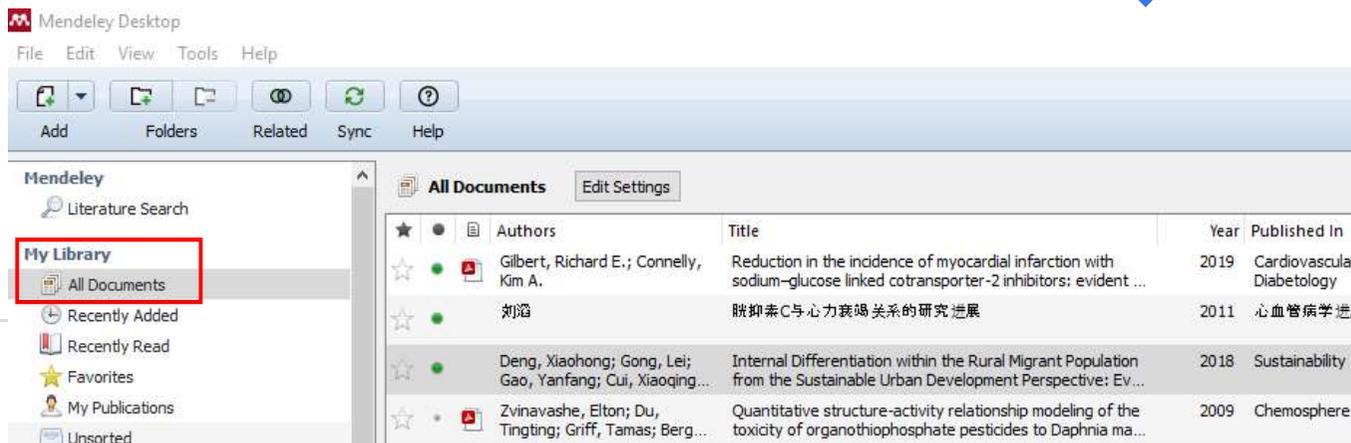
参考文献管理 - 生成参考文献

直接从Scopus页面导入

Scopus



收到文献导出完成提示后, 点击 Mendeley 中的 Sync (同步) 按钮, 同步文献列表



轻松管理文献写作

参考文献管理 - 生成参考文献

直接导入pdf

File Edit View Tools Help

- Add Files... Ctrl+O
- Add Folder... Ctrl+Shift+O
- Watch Folder...
- Add Entry Manually...
- Import...
 - BibTeX (*.bib)
 - EndNote XML - EndNote v8, X1 to X3 (*.xml)
 - RIS - Research Information Systems (*.ris)
 - Zotero Library (zotero.sqlite)
- Export... Ctrl+E
- Merge Documents
- Export PDF(s) with Sticky Notes...
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- Remove from Folder
- Rename Document Files...
- Synchronize Library F5
- Sign Out (t.du@elsevier.com)
- Quit Ctrl+Q

Documents Edit Settings

		Year	Published In	Added
	and Subclinical Peripheral Arterial the Jackson Heart Study	2019	Journal of the American Heart...	10:37pm
	idence of myocardial infarction with ed cotransporter-2 inhibitors: evident ...	2019	Cardiovascular Diabetology	10:37pm
刘滔	疏钙素C与心力衰竭关系的研究进展	2011	心血管病学进展	Feb 3
Horton, J.S.; Shiraiishi, T.; Alfulaj, N.; Small-Howard, A...	TRPV1 is a component of the atrial natriuretic signaling complex, and using orally delivered antagonists, presents...	2019	Channels (Austin, Tex.)	11:07pm
Zvinvashe, Elton; Du, Tingting; Griff, Tamas; Berg...	Quantitative structure-activity relationship modeling of the toxicity of organothophosphate pesticides to Daphnia ma...	2009	Chemosphere	Jan 29
Gupta, Ankur; Allen, Larry A.; Bhatt, Deepak L.; Cox, Mar...	Association of the hospital readmissions reduction program implementation with readmission and mortality outcomes...	2018	JAMA Cardiology	10:37pm
Bidas, Eva; Du, Tingting; Lambert, Ronald J.W.	An explanation for the effect of inoculum size on MIC and the growth/no growth interface	2008	International Journal of Food...	Jan 29

Filter by Authors

- All
- Alfulaj, N.
- Allen, Larry A.
- Benjamin, Emelia J.
- Berg, Hans H J van den
- Bhabnagar, Aruni
- Bhatt, Deepak L.
- Bidas, Eva
- Blaha, Michael J.
- Butler, Javed
- Butler, Kenneth R.
- Cain, Loretta R.
- Clark, Donald
- Connelly, Kim A.
- Correa, Adolfo
- Cox, Margueritte
- DeFillois, Andrew P.

No documents selected

- 选择Add Files导入全文文献pdf
- 或者直接拖拽pdf至文献列表区域添加
- Mendeley会根据全文文献pdf (英文) 中的信息对文献进行识别



轻松管理文献写作

参考文献管理 - 生成参考文献

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ggy167.pdf - Adobe Acrobat Reader DC
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主页 工具 ggy167.pdf x

118%

Geophysical Journal International

Geophys. J. Int. (2018) **214**, 751–757
Advance Access publication 2018 May 11
GJI Seismology

doi: 10.1093/gji/ggy167

Increased likelihood of induced seismicity in highly overpressured shale formations

David W. Eaton¹ and Ryan Schultz²

¹*Department of Geoscience, University of Calgary, Calgary, AB T2N 1N4, Canada*
²*Alberta Geological Survey, Alberta Energy Regulator, Edmonton, AB T6B 2X3, Canada. E-mail: Ryan.Schultz@aer.ca*

Received 2018 April 17; in original form 2018 March 13



轻松管理文献写作

参考文献管理 - 生成参考文献

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The screenshot shows the Mendeley Desktop application window. The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for Add, Folders, Related, Sync, and Help, and a search bar. On the left, there is a sidebar with 'Mendeley' and 'My Library' sections. The main area displays a list of documents under 'All Documents'. A red box highlights the following entry:

★	●	📄	Authors	Title			
☆	●		李晓洁; 刘奕	新生代农民工社会融合对策研究			
☆	●	📄	Deng, Xiaohong; Gong, Lei; Gao, Yanfang; Cui, Xiaoqing; ...	Internal Differentiation within the Rural Migrant Popu from the Sustainable Urban Development Perspectiv	2018	Sustainability	Feb 7
☆	●		刘滔	胱抑素C与心力衰竭关系的研究进展	2011	心血管病学进展	Feb 3
☆	●	📄	Eaton, David W.; Schultz, Ryan	Increased likelihood of induced seismicity in highly overpressured shale formations	2018	Geophysical Journal Internat...	5:48pm
☆	●	📄	Niu, Geng; Zhao, Guochang	Religion and trust in strangers among China's rural-urban migrants	2018	China Economic Review	Feb 7

A red callout bubble points to the highlighted entry with the following text:

- Mendeley会根据全文文献pdf（英文）中的信息对文献进行识别



轻松管理文献写作

参考文献管理 - 生成参考文献

利用DOI搜索文献后添加

• 选择手动输入

Year	Published In	Added
2019	Journal of the American Heart...	10:37pm
2019	Cardiovascular Diabetology	10:37pm
2011	心血管病学进展	Feb 3
2019	Channels (Austin, Tex.)	11:07pm
2009	Chemosphere	Jan 29
2018	JAMA Cardiology	10:37pm
2008	International Journal of Food...	Jan 29



轻松管理文献写作

参考文献管理 - 生成参考文献

利用DOI搜索文献后添加

doi: 10.1093/gji/ggy167

Increased likelihood of induced seismicity in highly overpressured shale formations

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¹Department of Geoscience, University of Calgary, Calgary, AB T2N 1N4, Canada

²Alberta Geological Survey, Alberta Energy Regulator, Edmonton, AB T6B 2X3, Canada. E-mail: Ryan.Schultz@aer.ca



New Document

Author Keywords:

URL:
Add URL...

Catalog IDs

ArXiv ID:

DOI:

PMID:

Files:
Add File...

Other Settings

Unpublished work - exclude from Mendeley Web catalog

Reset Save Cancel

- 将文献DOI复制至Mendeley中，搜索



New Document

Type: Journal Article

Increased likelihood of induced seismicity in highly overpressured shale for...

Authors: D. Eaton, R. Schultz

Journal: Geophysical Journal Inte...

Year: 2018

Volume:

Issue:

Pages:

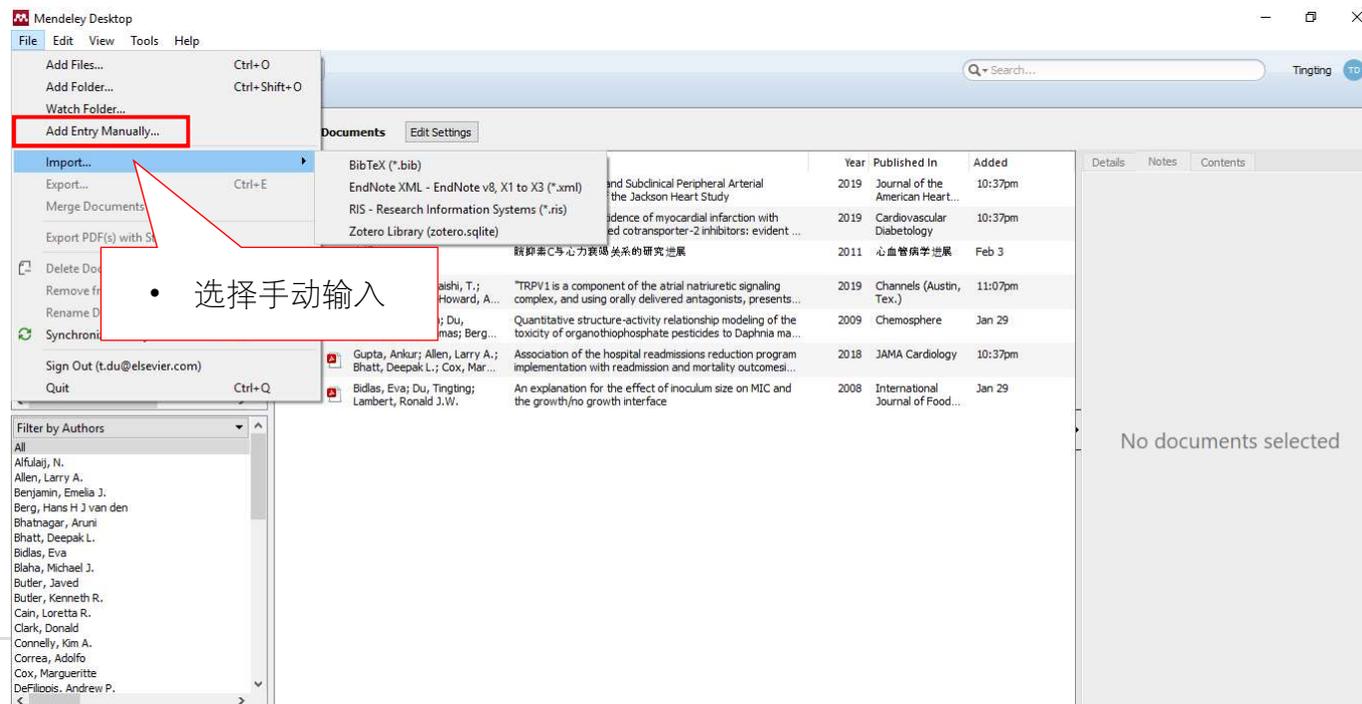
Abstract:

Reset Save Cancel

轻松管理文献写作

参考文献管理 - 生成参考文献

手动添加文献



The screenshot shows the Mendeley Desktop application window. The 'File' menu is open, and 'Add Entry Manually...' is highlighted with a red box. A red arrow points from this menu item to a text box containing the instruction '选择手动输入' (Select manual input). The main window displays a list of documents with columns for Year, Published In, and Added. A 'Filter by Authors' sidebar is visible on the left, and a 'No documents selected' message is shown on the right.

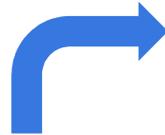
Year	Published In	Added
2019	Journal of the American Heart...	10:37pm
2019	Cardiovascular Diabetology	10:37pm
2011	心血管病学进展	Feb 3
2019	Channels (Austin, Tex.)	11:07pm
2009	Chemosphere	Jan 29
2018	JAMA Cardiology	10:37pm
2008	International Journal of Food...	Jan 29



轻松管理文献写作

参考文献管理 - 生成参考文献

手动添加文献



{Reference Type}: Journal Article

{Title}: 地震诱发的高速远程滑坡过程中土结构破坏和土粒子破碎引起的两种不同的液化机理

{Author}: 汪发武;

{Author Address}: 日本岛根大学综合理工学部;

{Journal}: 工程地质学报

{Year}: 2019

{Issue}: 01

{Pages}: 98-107

{Keywords}: 滑坡;土体结构;土粒子破碎;液化

{Abstract}: 本文的主要目的是探讨地震诱发的高速远程滑坡的液化机理。通过排水和不排水环剪的对比试验,以及对地震诱发的不同类型的滑坡实例的现场调查,考察了土结构破坏和土粒子破碎产生的滑动带液化的不同机理。土结构破坏引起的液化在滑坡发生时即可产生,而土粒子破碎引起的液化需要在滑动过程中产生。在此基础上提出了滑动带向滑体内的扩展模型,并分析了两种液化机理引起的滑坡体形态的差异。本文的独到之处在于揭示了土粒子破碎对高速远程滑坡的重要影响,强调了在滑坡灾害预测研究中必须同等重视滑坡体结构和土粒子易破碎性的调查分析。

New Document

Type: Journal Article

No Title

Authors: Authors

Journal:

Year:

Volume:

Issue:

Pages:

Abstract:

Tags:

Reset Save Cancel

New Document

Type: Journal Article

地震诱发的高速远程滑坡过程中土结构破坏和土粒子破碎引起的两种不同的液化机理

Authors: 汪发武

Journal: 工程地质学报

Year: 2019

Volume:

Issue: 01

Pages: 98-107

Abstract:

本文的主要目的是探讨地震诱发的高速远程滑坡的液化机理。通过排水和不排水环剪的对比试验,以及对地震诱发的不同类型的滑坡实例的现场调查,考察了土结构破坏和土粒子破碎产生的滑动带液化的不同机理。土结构破坏引起的液化在滑坡发生时即可产生,而土粒子破碎引起的液化需要在滑动过程中产生。在此基础上提出了滑动带向滑体内的扩展模型,并分析了两种液化机理引起的滑坡体形态的差异。本文的独到之处在于揭示了土粒子破碎对高速远程滑坡的重要影响,强调了在滑坡灾害预测研究中必须同等重视滑坡体结构和土粒子易破碎性的调查分析。

Reset Save Cancel

轻松管理文献写作

参考文献管理 - 从其他研究软件中导入论文

Mendeley Desktop

File Edit View Tools Help

Add Files... Ctrl+O

Add Folder... Ctrl+Shift+O

Watch Folder...

Add Entry Manually...

Import... (highlighted)

Export... Ctrl+E

Merge Documents

Export PDF(s) with Sticky Notes...

Delete Documents

Remove from Folder

Rename Document Files...

Synchronize Library F5

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Documents Edit Settings

Year	Published In	Added
2019	Journal of the American Heart...	10:37pm
2019	Cardiovascular Diabetology	10:37pm
2011	心血管病学进展	Feb 3
2019	Channels (Austin, Tex.)	11:07pm
2009	Chemosphere	Jan 29
2018	JAMA Cardiology	10:37pm
2008	International Journal of Food...	Jan 29

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- All
- Alfulajj, N.
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- Bhatnagar, Aruni
- Bhatt, Deepak L.
- Bidlas, Eva
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- Butler, Javed
- Butler, Kenneth R.
- Cain, Loretta R.
- Clark, Donald
- Connelly, Kim A.
- Correa, Adolfo
- Cox, Margueritte
- DeFilippo, Andrew P.

No documents selected

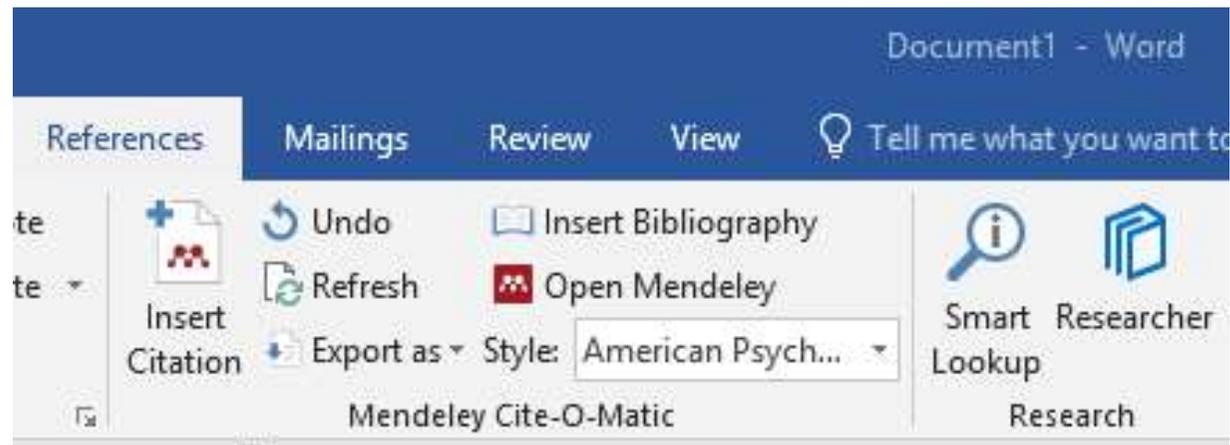
- 支持4种格式导入Mendeley



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

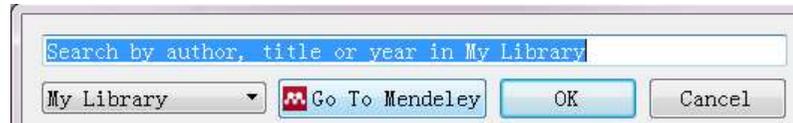
桌面版安装完毕，打开Word。Mendeley在Word的工具栏在Reference（引用）下面。



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

1. 将鼠标移到文中要插入文献的位置，在Word的Reference（引用）中选择Insert Citation，此时会跳出一个对话框



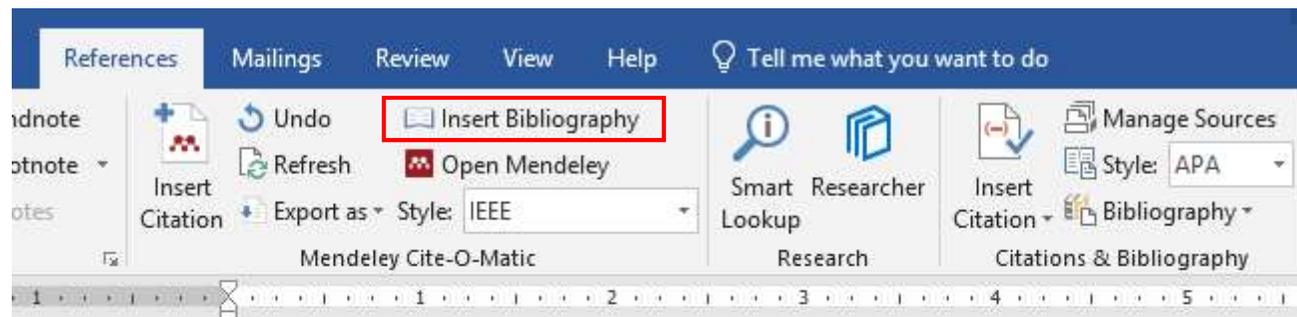
2. 在该对话框中选择Go To Mendeley，在Mendeley中选择需要插入的文献。此时Mendeley会多了一个Cite选择，选择Cite插入



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

3. 此时Word中文末没有没有插入文献的详细信息。将鼠标焦点移到文末插入文献详细信息的位置，然后在Word的Mendeley工具栏中，选择Insert Bibliography即可插入文献的详细信息



在此处插入引用[1]

Reference 在此处插入参考文献

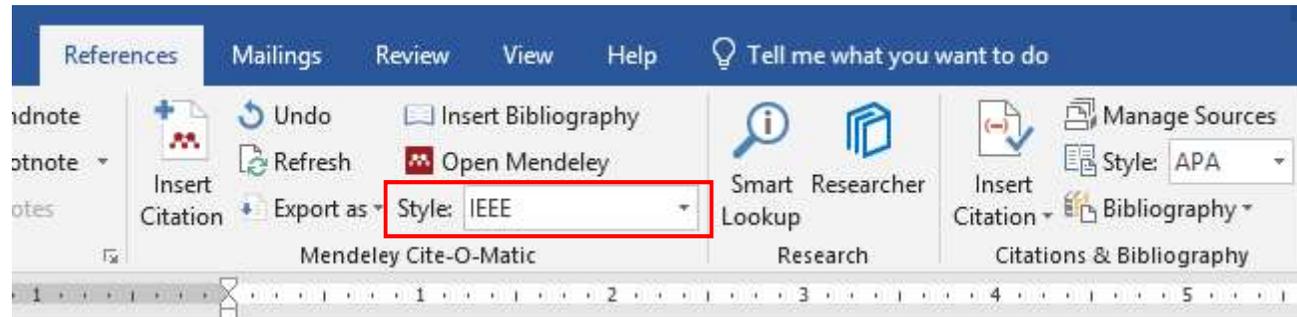
- [1] D. W. Eaton and R. Schultz, "Increased likelihood of induced seismicity in highly overpressured shale formations," *Geophys. J. Int.*, May 2018.



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

4. 较常用的引用及参考文献格式可直接在Style中进行选择



在此处插入引用[1]

Reference 在此处插入参考文献

- [1] D. W. Eaton and R. Schultz, "Increased likelihood of induced seismicity in highly overpressured shale formations," *Geophys. J. Int.*, May 2018.

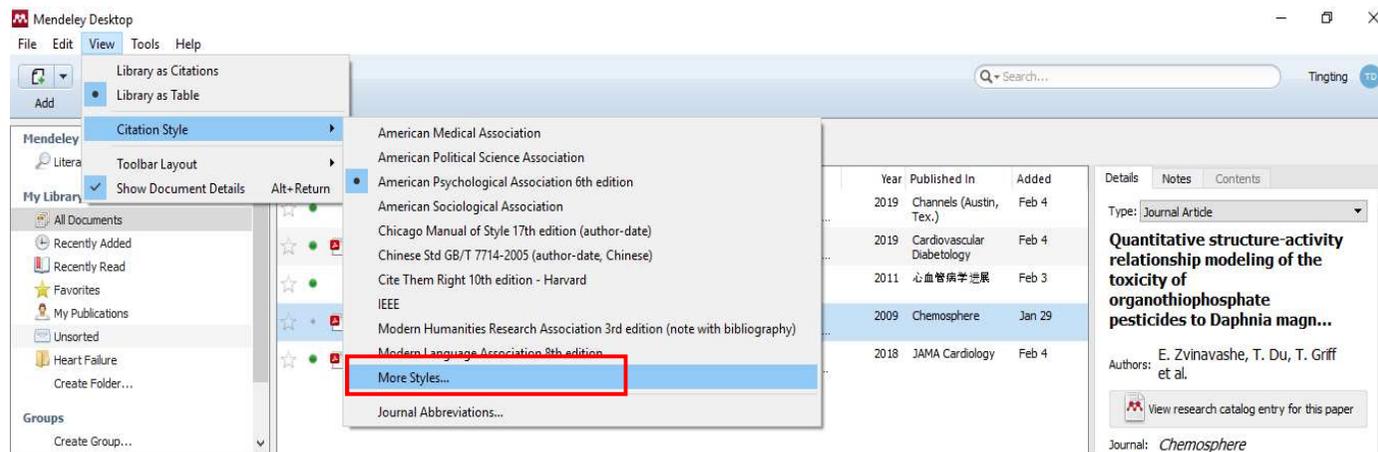


轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

5. 如果需要的引用及参考文献格式在Style中没有，可以在桌面版中查找并安装

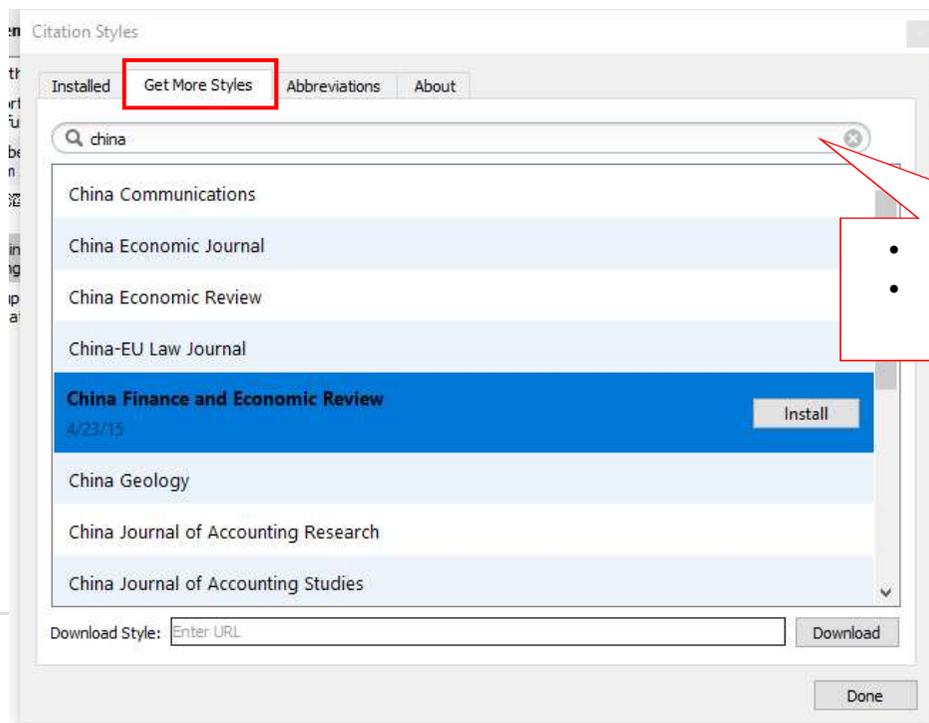
View – Citation Style – More Styles



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

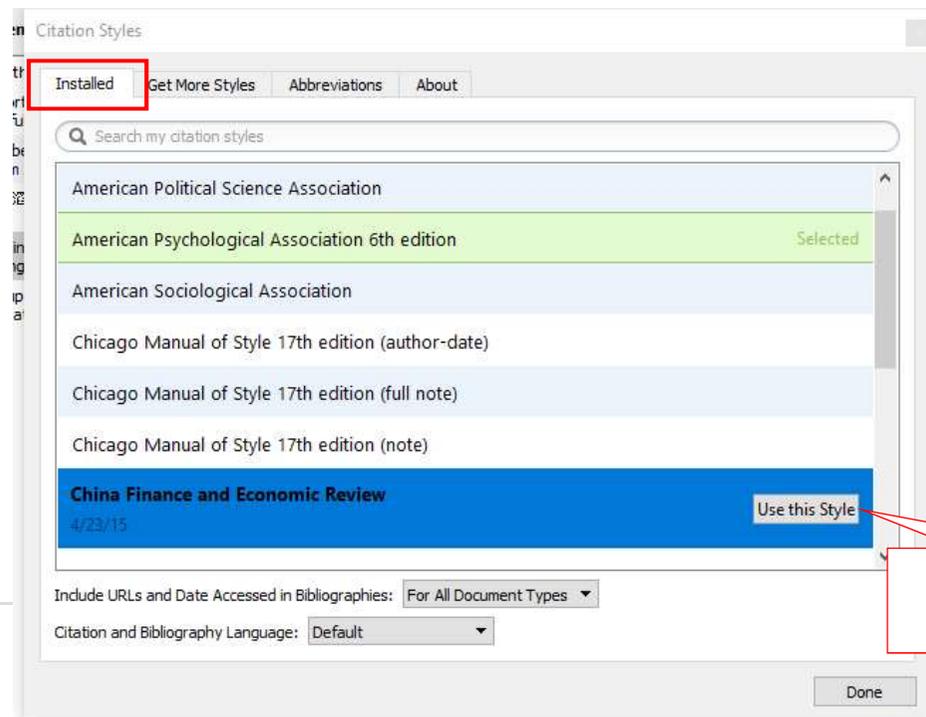
6. 在Get More Styles中查找需要的引用及参考文献格式并安装



轻松管理文献写作

参考文献管理 - 用Mendeley在Word插入参考文献

7. 已安装的引用及参考文献格式在Installed中显示



- 不同格式切换使用



轻松管理文献写作

参考文献管理 - 文献管理

The screenshot shows the Mendeley Desktop application window. The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for Add, Folders, Related, Sync, and Help, and a search bar. The main area is divided into three panes: 'My Library' on the left, 'All Documents' in the center, and a 'Details' pane on the right. The 'My Library' pane shows a list of folders, with 'Create Folder...' highlighted. The 'All Documents' pane shows a list of documents with columns for Authors and Title. The 'Details' pane shows the metadata for a selected document, including Type, Title, Authors, Journal, Year, Volume, Issue, Pages, and Abstract. Three red callout boxes with arrows point to specific features: one points to the 'Create Folder...' button, another points to the 'Details' pane, and a third points to the 'Tags' field.

• 可对文献信息进行修改

• 创建文件夹对文献进行分组管理

• 为文献添加标签

Authors	Title
李晓洁; 刘奕	新生代农民工社会融合对策研究
Deng, Xiaohong; Gong, Lei; Gao, Yanfang; Cui, Xiaoqing...	Internal Differentiation within the Rural Migrant Population from the Sustainable Urban Development Perspective: Ev...
刘滔	胱抑素C与心力衰竭关系的研究进展
Eaton, David W; Schultz, Ryan	Increased likelihood of induced seismicity in highly overpressured shale formations
Niu, Geng; Zhao, Guochang	Religion and trust in strangers among China's rural-urban migrants
Zvinavashe, Elton; Du, Tingting; Griff, Tamas; Berg...	Quantitative structure-activity relationship modeling of the toxicity of organothiophosphate pesticides to Daphnia ma...
Ankur, Allen, Larry A.; Deepak L.; Cox, Mar...	Association of the hospital readmissions reduction program implementation with readmission and mortality outcomes...

Details Notes Contents

Type: Journal Article

Increased likelihood of induced seismicity in highly overpressured shale formations

Authors: D. Eaton, R. Schultz

View research catalog entry for this paper

Journal: *Geophysical Journal International*

Year: 2018

Volume:

Issue:

Pages:

Abstract:

Tags:

轻松管理文献写作

参考文献管理 – 文献管理

对文献列表中文献进行搜索

The screenshot displays the Mendeley Desktop application window. At the top, a search bar is highlighted with a red box and a callout bubble containing the text "利用搜索栏直接搜索". Below the search bar, a list of documents is shown in a table format. On the left side, a filter menu is open, with "Filter by Authors" selected and highlighted in blue. A red box around this menu has a callout bubble containing the text "使用Filter利用作者、关键字、标签及文献名称筛选文献". The table lists documents with columns for Authors, Title, Year, Published In, and Added. The right side of the interface shows a "No documents selected" message.

Authors	Title	Year	Published In	Added
Horton, J.S.; Shirashi, T.; Afulaj, N.; Small-Howard, A...	TRPV1 is a component of the atrial natriuretic signaling complex, and using orally delivered antagonists, presents...	2019	Channels (Austin, Tex.)	Feb 4
Gilbert, Richard E.; Connelly, Kim A.	Reduction in the incidence of myocardial infarction with sodium-glucose linked cotransporter-2 inhibitors: evident ...	2019	Cardiovascular Diabetology	Feb 4
刘滔	糖尿病C与心力衰竭关系的研究进展	2011	心血管病学进展	Feb 3
Zvinavashe, Elton; Du, Tingting; Griff, Tamas; Berg...	Quantitative structure-activity relationship modeling of the toxicity of organothiophosphate pesticides to Daphnia ma...	2009	Chemosphere	Jan 29
Gupta, Ankur; Allen, Larry A.; Bhatt, Deepak L.; Cox, Mar...	Association of the hospital readmissions reduction program implementation with readmission and mortality outcomes...	2018	JAMA Cardiology	Feb 4



轻松管理文献写作

参考文献管理 - 使用iOS应用程序移动阅读论文

The screenshot displays the Mendeley Desktop application. The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for Add, Folders, Related, Sync, and Help, and a search bar. The left sidebar shows 'My Library' with categories like 'All Documents', 'Recently Added', 'Recently Read', 'Favorites', 'My Publications', 'Unsorted', 'Heart Failure', and 'Rural Migrants'. Below this is a 'Filter by Authors' list. The main area shows a table of documents with columns for 'Authors' and 'Title'. A red box highlights a document entry: 'Eaton, David W; Schultz, Ryan' with the title 'Increased likelihood of induced seismicity in highly overpressured shale formations'. A red arrow points from this entry to a text box containing instructions in Chinese. The right sidebar shows the details for the selected document, including the title, authors, journal name, and year.

Authors	Title
李晓洁; 刘奕	新生代农民工社会融合对策研究
Deng, Xiaohong; Gong, Lei; Gao, Yanfang; Cui, Xiaoqing...	Internal Differentiation within the Rural Migrant Population from the Sustainable Urban Development Perspective: Ev...
刘滔	胱抑素C与心力衰竭关系的研究进展
Eaton, David W; Schultz, Ryan	Increased likelihood of induced seismicity in highly overpressured shale formations
Niu, Geng; Zhao, Guochang	Religion and trust in strangers among China's rural-urban migrants
Zvinavashe, Elton; Du, Tingting; Griff, Tamas; Berg...	Quantitative structure-activity relationship modeling of the toxicity of organothiophosphate pesticides to Daphnia ma...
Gupta, Ankur; Allen, Larry A.; Bhatt, Deepak L.; Cox, Mar...	Association of the hospital readmissions reduction program implementation with readmission and mortality outcomes...

Details: Notes Contents

Type: Journal Article

Increased likelihood of induced seismicity in highly overpressured shale formations

Authors: D. Eaton, R. Schultz

View research catalog entry for this paper

Journal: *Geophysical Journal International*

Year: 2018

Volume:

Issue:

Pages:

Abstract:

Tags:

- 将全文pdf导入Mendeley
- 带有全文的文献前标有pdf标志
- 双击带有全文的文献即可打开全文阅读

轻松管理文献写作

参考文献管理 - 使用iOS应用程序移动阅读论文

- 点击Note在全文中添加注解
- 在文中需添加注解处点击后，进行记录
- 在右侧边栏中Notes处可以记录针对整篇文章的注解

The screenshot shows the Mendeley Desktop interface. The top menu bar includes File, Edit, View, Go, Tools, and Help. Below the menu is a toolbar with icons for Select, Pan, Note, Add Note, Color, Zoom, Zoom To Fit, Fullscreen, Sync, and Help. The 'Note' icon is highlighted with a red box. The main window displays a document from Geophysical Journal International. The document title is "Increased likelihood of induced seismicity in highly overpressured shale formations" by David W. Eaton¹ and Ryan Schultz². The document is from the journal *Geophys. J. Int.* (2018) 214, 751–757. The sidebar on the right has tabs for Details, Notes, and Contents. The 'Notes' tab is active, showing a text area labeled "GENERAL NOTES" with bold, italic, and underline formatting options. A red box highlights this text area. Below the text area, there is a message: "Use the **highlight** and **note** tools to create annotations. Any annotations you create in Mendeley Desktop will be available on Mendeley for iOS, Android and Web." The Elsevier logo is visible in the bottom left corner.

轻松管理文献写作

参考文献管理 - 使用iOS应用程序移动阅读论文

The screenshot displays the Mendeley Desktop interface. The main window shows a document with two columns of text. A yellow annotation box is overlaid on the text, containing the text '与中国地形的相似之处?' and the user's name 'Tingting Du'. A red box highlights a speech bubble icon in the top right corner of this annotation box. To the right, a sidebar is open, showing 'GENERAL NOTES' and 'PRIVATE ANNOTATIONS' sections. The 'PRIVATE ANNOTATIONS' section contains a matching yellow annotation box with the same text and user name, also highlighted with a red box. A red speech bubble points to this annotation box with the text: '在全文中添加注解也会在右侧边栏中显示'. The document footer includes the Elsevier logo, page number '752', and authors 'D. W. Eaton and R. Schultz'. The Mendeley Desktop title bar and menu are visible at the top.

轻松管理文献写作

参考文献管理 - 使用iOS应用程序移动阅读论文

- 还有高光及颜色可以用来对文献进行标注及对不同的注解进行分类
- 利用Sync按钮队文章中的标注进行同步，保证阅读的同步性

The screenshot displays the Mendeley Desktop application interface. The top menu bar includes 'File', 'Edit', 'View', 'Go', 'Tools', and 'Help'. Below the menu is a toolbar with icons for 'Select', 'Pan', 'Note', 'Highlight', 'Zoom To Fit', 'Fullscreen', 'Sync', and 'Help'. A dropdown menu for 'Highlight' is open, showing color options: Yellow, Green, Blue, Purple, Pink, Red, Orange, and Grey. The main window shows a document with text and a highlighted section. A 'Sync' button is highlighted with a red box. A tooltip for the 'Sync' button shows a yellow highlight and the text 'Tingting Du Just now' and '与中国地形的相似之处?'. The right sidebar shows 'Details', 'Notes', and 'Contents' tabs, with 'Notes' selected. It displays 'GENERAL NOTES' and 'PRIVATE ANNOTATIONS' sections, both containing the same text as the tooltip.

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轻松管理文献写作

参考文献管理 - 使用iOS应用程序移动阅读论文

- 选择SD文献详情页面Export下的Save to Mendeley
- 同时导入文献及全文pdf
- 导入完成后点击Save保存

Short communication Full text access

Predicting changes in induced seismicity on the basis of estimated rock mass energy states
International Journal of Rock Mechanics and Mining Sciences, Volume 95, May 2017, Pages 79-86
Piotr Bańka, Andrzej Chmiela, Marta Menéndez Fernández, Zulima Fernández Muñiz, Antonio Bernardo Sanchez

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International Journal of Rock Mechanics and Mining Sciences
Volume 95

Predicting changes in induced seismicity on the basis of estimated rock mass energy states

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Outline
Keywords
1. Introduction
2. Proposed method using the relationship between...
3. General description of the area studied
4. Correlations between energy expenditure in tr...
5. Conclusion
Acknowledgements



Web Library

Choose folders or groups [Save \(1\)](#)

Download PDFs if available

Journal Article [Edit](#)

Predicting changes in induced seismicity on the basis of estimated rock mass energy states

Bańka P, Chmiela A, Menéndez Fernández M, Fernández Muñiz Z, Bernardo Sanchez A

International Journal of Rock Mechanics and Mining Sciences
2017 vol: 95 pp: 79-86



附录2

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 - 如何回应评论者的评论
 - 如何沟通你的工作来提高你的研究的影响并帮助你获得引用
 - 如何有策略地规划你的职业生涯
 - 如何在产业界和学术界中找工作
 - 如何应对研究人员的繁忙生活
-
- etc.



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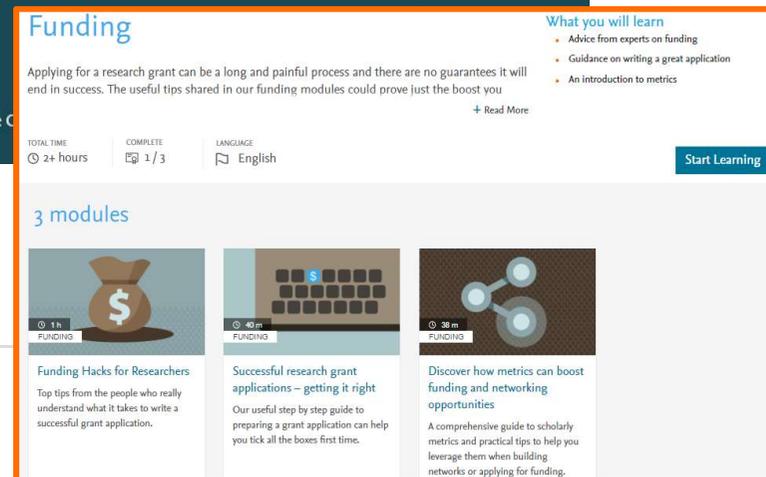
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- An introduction to metrics

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- Successful research grant applications – getting it right** (40m)
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- Discover how metrics can boost funding and networking opportunities** (38m)
A comprehensive guide to scholarly metrics and practical tips to help you leverage them when building networks or applying for funding.



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CAREER PLANNING

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