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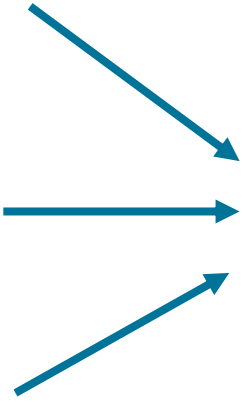
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**Joule** CellPress

**Perspective**  
**Thermodynamic Understanding of Li-Dendrite Formation**

Xiangwen Gao,<sup>1,4</sup> Ya-Nan Zhou,<sup>2,4</sup> Duzhao Han,<sup>2</sup> Jiangqi Zhou,<sup>2</sup> Dezhong Zhou,<sup>2</sup> Wei Tang,<sup>2,3,\*</sup> and John B. Goodenough<sup>1,4</sup>

**Li-metal batteries have been emerging as attractive technologies for electrical energy storage and conversion by virtue of the ultrahigh theoretical specific capacity of lithium. However, the undesirable Li-dendrite growth upon prolonged cycling gives rise to thermal runaway, inducing tremendous safety concerns that impede the development of the technology. In general, Li nucleation and growth behavior significantly changes when the operating condition is modified through modulating temperature or thermodynamic energy to produce regulated lithium depositions. Herein, this perspective takes these two key factors as an example to emphasize the importance of thermodynamic understandings of the Li-dendrite issue. The key challenges and corresponding strategies for designing advanced dendrite-free Li-metal anodes with respect to thermodynamic factors are also discussed as fundamental guidance for future development.**

**INTRODUCTION**

The demand for intermittent electronics and renewable energy sources has created a tremendous interest in the exploration of advanced energy storage technologies with desirable characteristics in terms of high energy and power density, high efficiency, and low cost. Lithium ion batteries (LIBs) outperform other systems for their promising electrochemical qualities and have been widely used in the past decades.<sup>1,2</sup> The commercial LIBs employ graphite as the anode with a specific energy of approximately 260 Wh kg<sup>-1</sup>, and it is approaching the physicochemical limitation by the intercalation chemistries, especially the graphite anode side.<sup>3</sup> However, this energy density can hardly meet the ever-increasing demands for electric vehicles where the energy storage market has an urgent need for higher specific energy (> 500 Wh kg<sup>-1</sup>) and extended driving range (> 500 km).<sup>4-7</sup> Developing an anode with high capacity to replace graphite has emerged as an effective solution (Figure 1A).

Among various anode materials, Li metal has ultrahigh specific capacity of 3,860 mAh g<sup>-1</sup> and the lowest reduction potential (-3.04 V versus standard hydrogen electrodes), showing the potential to boost the energy and power density.<sup>8-9</sup> The implementation of a lithium anode can also trigger higher-energy-density Li-oxygen batteries (~3,500 Wh kg<sup>-1</sup>) and Li-sulfur batteries (~2,400 Wh kg<sup>-1</sup>), far exceeding the state-of-art LIBs.<sup>10-12</sup> Accordingly, the exploitation of Li-metal batteries (LMBs) is one of the most attractive choices as next-generation lithium batteries, according to the recent increasing number of papers (Figure 1B). However, the commercialization of LMBs has been plagued by many issues, and one of them is the inevitable formation of lithium dendrites, induced by the thermodynamically unstable interface between metallic lithium and the electrolytes, illustrated in Figure 1C.<sup>13</sup> These formed

**Context & Scale**

The recent boom in electrical energy storage and conversion with high energy density facilitates the exploration of Li-metal batteries. However, Li dissolution and nucleation are easily susceptible to thermodynamic conditions that induce dendrite growth, causing tremendous safety hazards, low energy density, and short lifespan. Nevertheless, a comprehensive understanding of the thermodynamic effects on lithium deposition and growth is still absent.

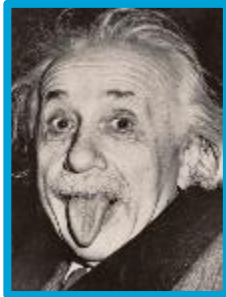
The development and latest research progress of thermodynamic inducing factors regarding lithium nucleation and growth are systematically summarized from theory to experiment, especially focusing on thermodynamic energy, temperature, and related models. Strategies for designing a dendrite-free Li-metal anode through thermodynamic considerations, including structured anode, self-healing dendrite tactics, and electrode and electrolyte interface engineering are also discussed. We highlight the imperfections of present thermodynamic research and propose corresponding feasible solutions. Future work should evaluate each individual system on its own to integrate

Journal 4, 1–16, September 16, 2020 © 2020 Elsevier Inc. 1

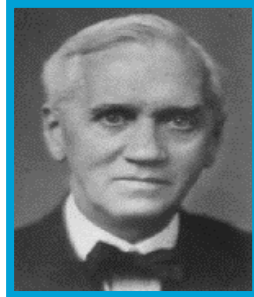
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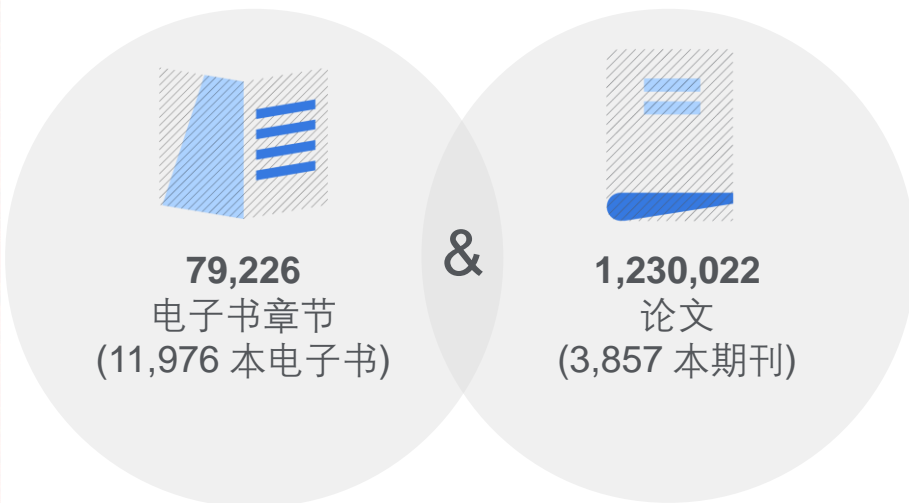
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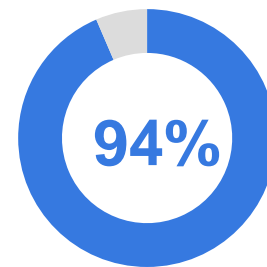
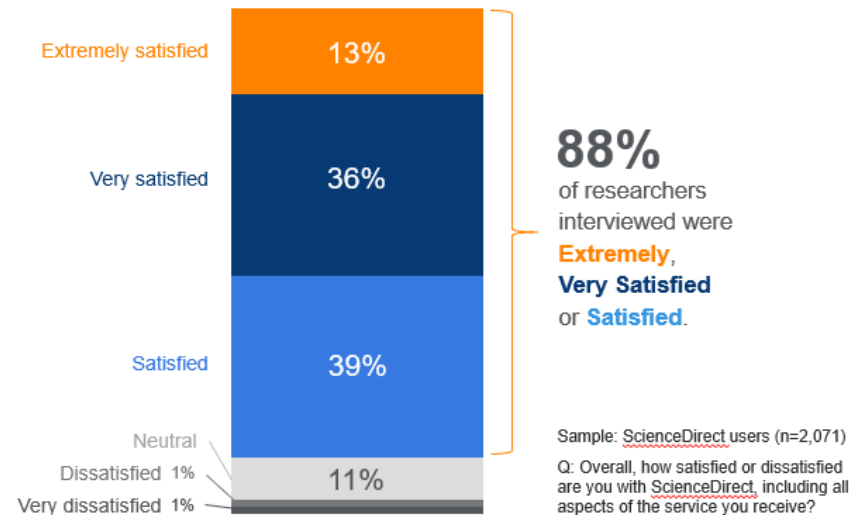
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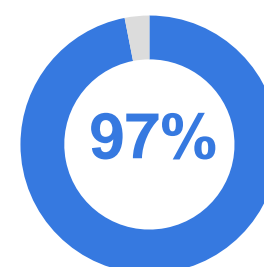
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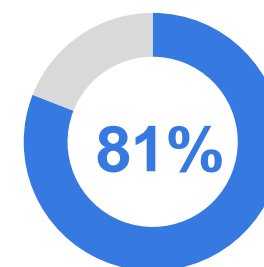
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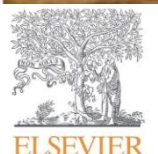


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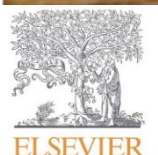
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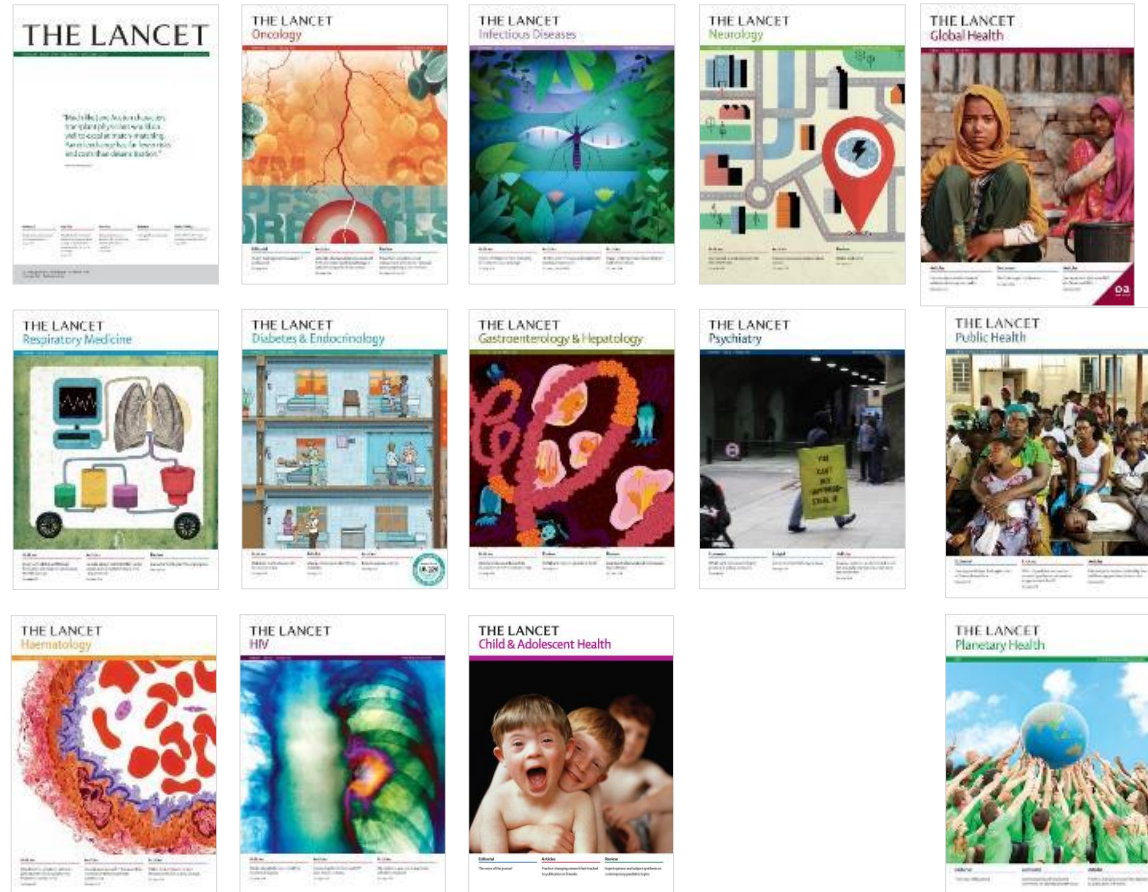
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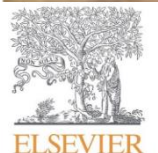
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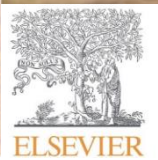
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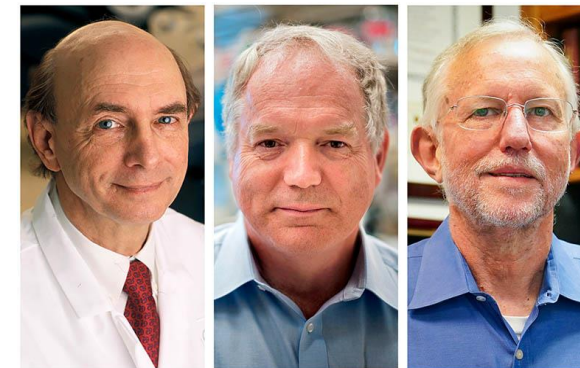
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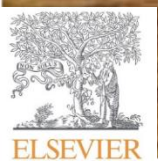
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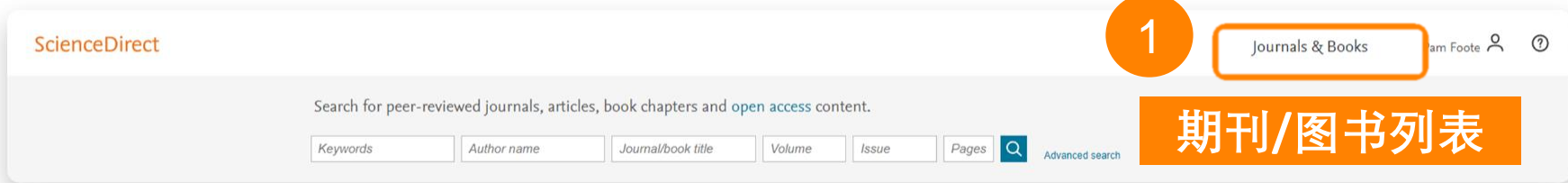
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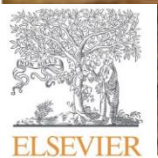
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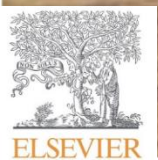
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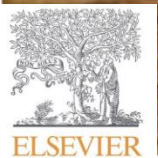
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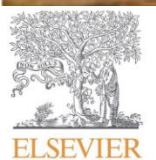
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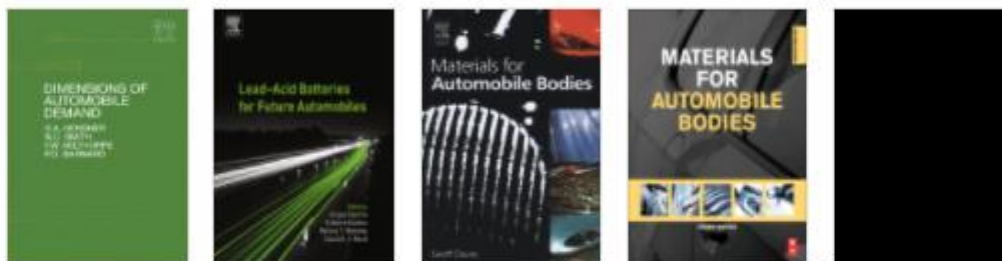
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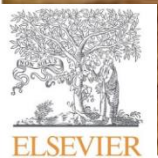
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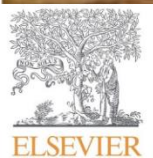
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- Boolean operators must be entered in all uppercase
- The hyphen (or minus symbol) is interpreted as the NOT operator
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  - 1. NOT**
  - 2. AND**
  - 3. OR**
- Parentheses can be used when nesting clauses so the grouping is clear
  - For example:** For `a OR b AND c`, enter `a OR (b AND c)`
- Quotation marks can be used to specify terms which must appear next to each other
  - For example:** `("heart attack" OR "myocardial infarction") AND diabetes AND NOT cancer`



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- 常用文献检索方法
  - 检索需求分析
  - 快速检索
  - ✓ 高级检索
  - 检索结果分析

**Example :**  
**"Automobile" AND  
"Artificial  
Intelligence" AND  
"Renewable  
Energy" AND NOT  
"Policy"**

Find articles with these terms

**"Automobile" AND "Artificial Intelligence" AND  
"Renewable Energy" AND NOT "Policy"**

Author(s)

Author affiliation

Volume(s)

Issue(s)


Page(s)

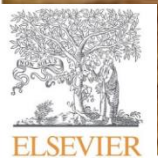
Title, abstract or author-specified keywords

Title

References

ISSN or ISBN

Search 




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  - 检索结果分析


## 检索结果

Find articles with these terms

**"Automobile" AND "Artificial Intelligence" AND "Renewable Energy" AND NO** 

Advanced search

**85 results**

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Encyclopedia (4)


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7: Application of artificial intelligence in the perspective of data mining  
Artificial Intelligence in Data Mining, 8 March 2021, ...  
D. Menaga, S. Saravanan  
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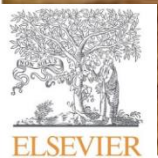
Research article  Full text access

Recent trends on nanofluid heat transfer machine learning research applied to renewable energy  
Renewable and Sustainable Energy Reviews, 24 October 2020, ...  
Ting Ma, Zhixiong Guo, ... Qiuwang Wang  
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Powder Technology, 15 May 2019, ...  
Mehdi Bahiraei, Saeed Heshmatian, Hossein Moayed  
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  - ✓ 检索结果分析

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169,971 results

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Subscribed journals

Years

按出版年

2022 (32)

2021 (6,508)

2020 (11,185)

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Article type

按文献类型

Review articles (6,727)

Research articles (111,957)

Encyclopedia (2,584)

Book chapters (20,224)

Show more

Publication title

按出版物

Materials Today: Proceedings (3,267)

Materials Science and Engineering: A (1,971)

Journal of Cleaner Production (1,707)

Show more

Subject areas

按学科

Engineering (40,318)

Materials Science (36,590)

Medicine and Dentistry (22,210)

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Access type

按出版方式

Open access (16,615)

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sorted by relevance | date

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**Polybrominated diphenyl ethers from automobile microenvironment: Occurrence, sources, and exposure assessment**

Science of The Total Environment, 22 March 2021, ...

Mantong Jin, Shunfei Zhang, ... Nanxi Ye

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Transactions of Nonferrous Metals Society of China, 24 December 2020, ...

Guang-jun HE, Peng LIU, ... Li-bo ZHANG

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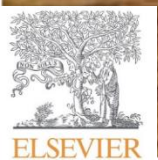
**Automobile pollution control using catalysis**

Resources, Environment and Sustainability, 14 November 2020, ...

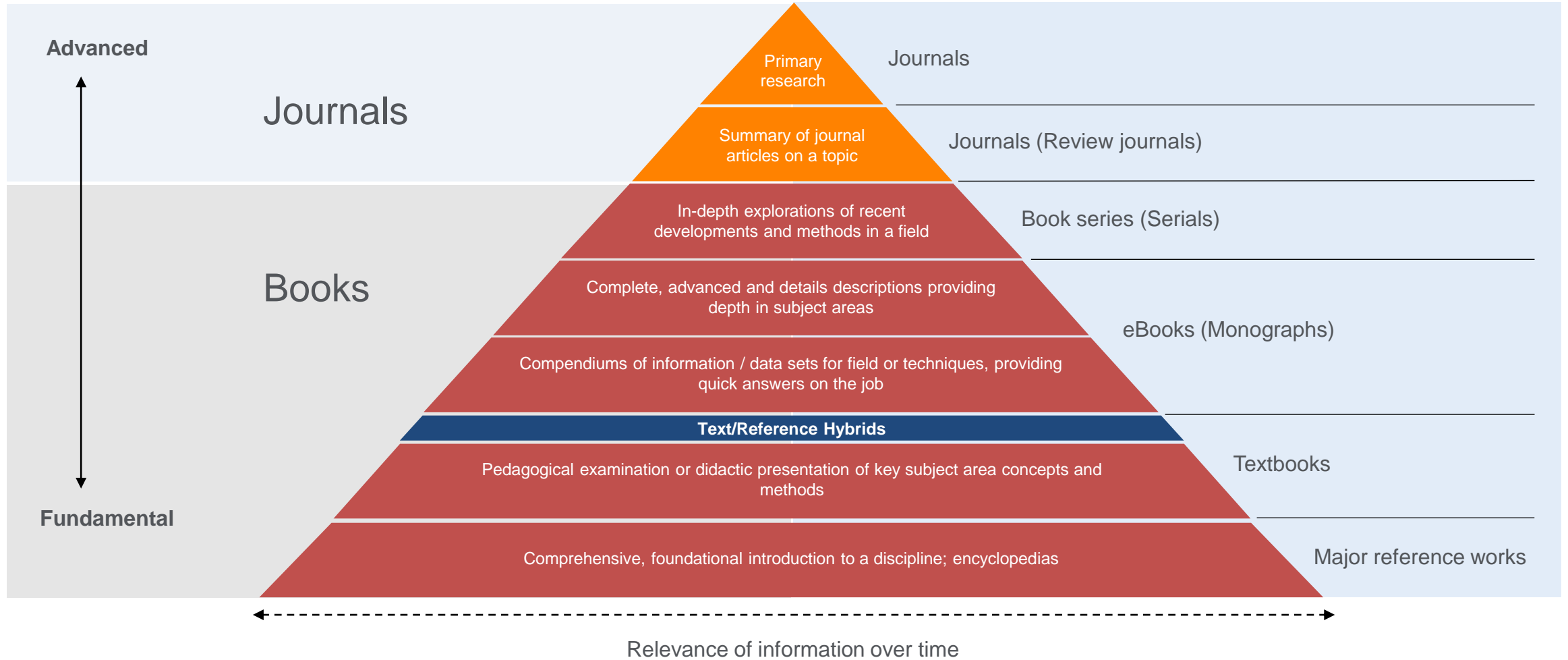
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- Are the experiments not logically designed? Is this the right experiment to answer this question?  
实验设计是否符合逻辑？

## The 4 Rejection Archetypes, Via Cooking Metaphors



<https://doi.org/10.1016/j.matt.2019.12.001>

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2. 学术道德与知识产权

3. 写作指南和案例

4. 论文接受后的事宜

5. 作者咨询

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1

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- Types of paper
- Submission checklist

2

### BEFORE YOU BEGIN

- Ethics in publishing
- Policy and ethics
- Declaration of competing interest
- Submission declaration and verification
- Use of inclusive language
- Changes to authorship

3

### PREPARATION

- Copyright
- Role of the funding source
- Open access
- Submission
- Additional information
- Peer review
- Article structure
- Essential title page information
- Highlights
- Abstract

4

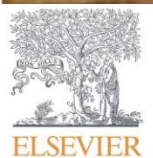
### AFTER ACCEPTANCE

- Artwork
- Tables
- References
- Video
- Data visualization
- Supplementary material
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5

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Short Communications(Within 3-4 pages)	
<ol style="list-style-type: none"> <li>1. Title</li> <li>2. Authors</li> <li>3. Abstract</li> <li>4. Keywords</li> <li>5. Introduction</li> <li>6. Methods and Materials</li> <li>7. Results and Discussion</li> <li>8. Conclusions</li> <li>9. Acknowledgements</li> <li>10. References</li> </ol> <p>*Supplementary Information</p>	<ol style="list-style-type: none"> <li>1. Title</li> <li>2. Authors</li> <li>3. Abstract</li> <li>4. Keywords</li> <li>5. Introduction</li> <li>6. Main body</li> <li>7. Conclusions</li> <li>8.(Perspectives)</li> <li>9. Acknowledgements</li> <li>10. References (<i>Important</i>)</li> </ol>

- Abstract
- Graphical abstract
- Keywords
- Abbreviations
- 1. Introduction
- 2. Materials and methods
- 3. Results
- 4. Discussion
- 5. Conclusion
- Authors contributions
- Uncited References
- Declaration of Competing Interest
- Acknowledgements
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- 5. Discussion
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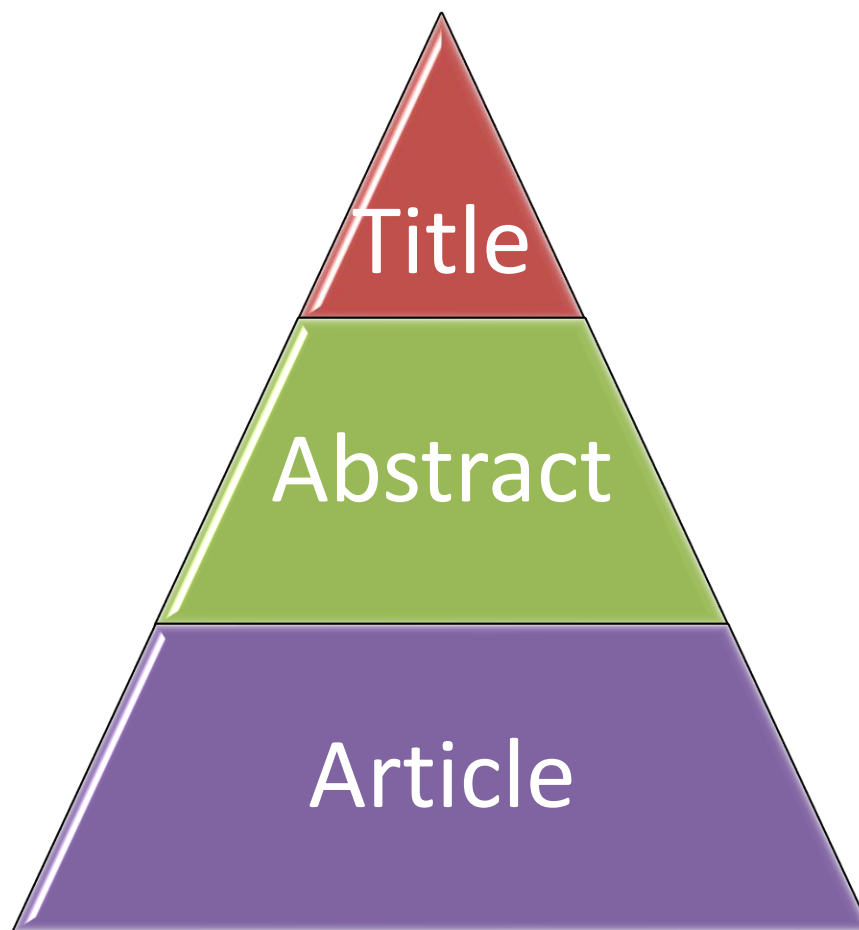
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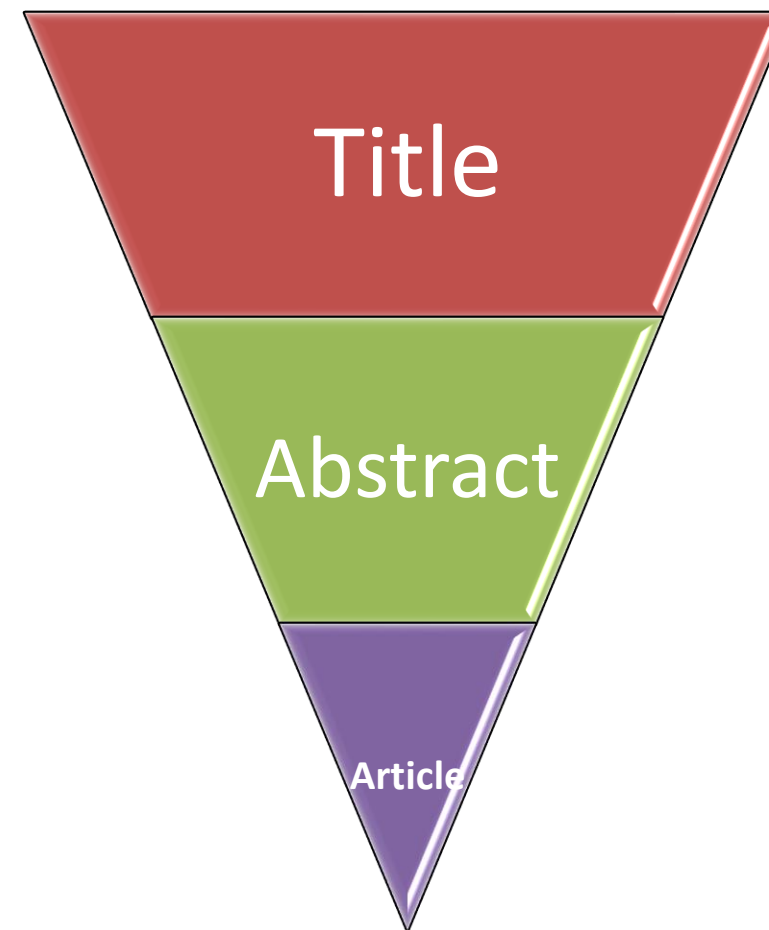
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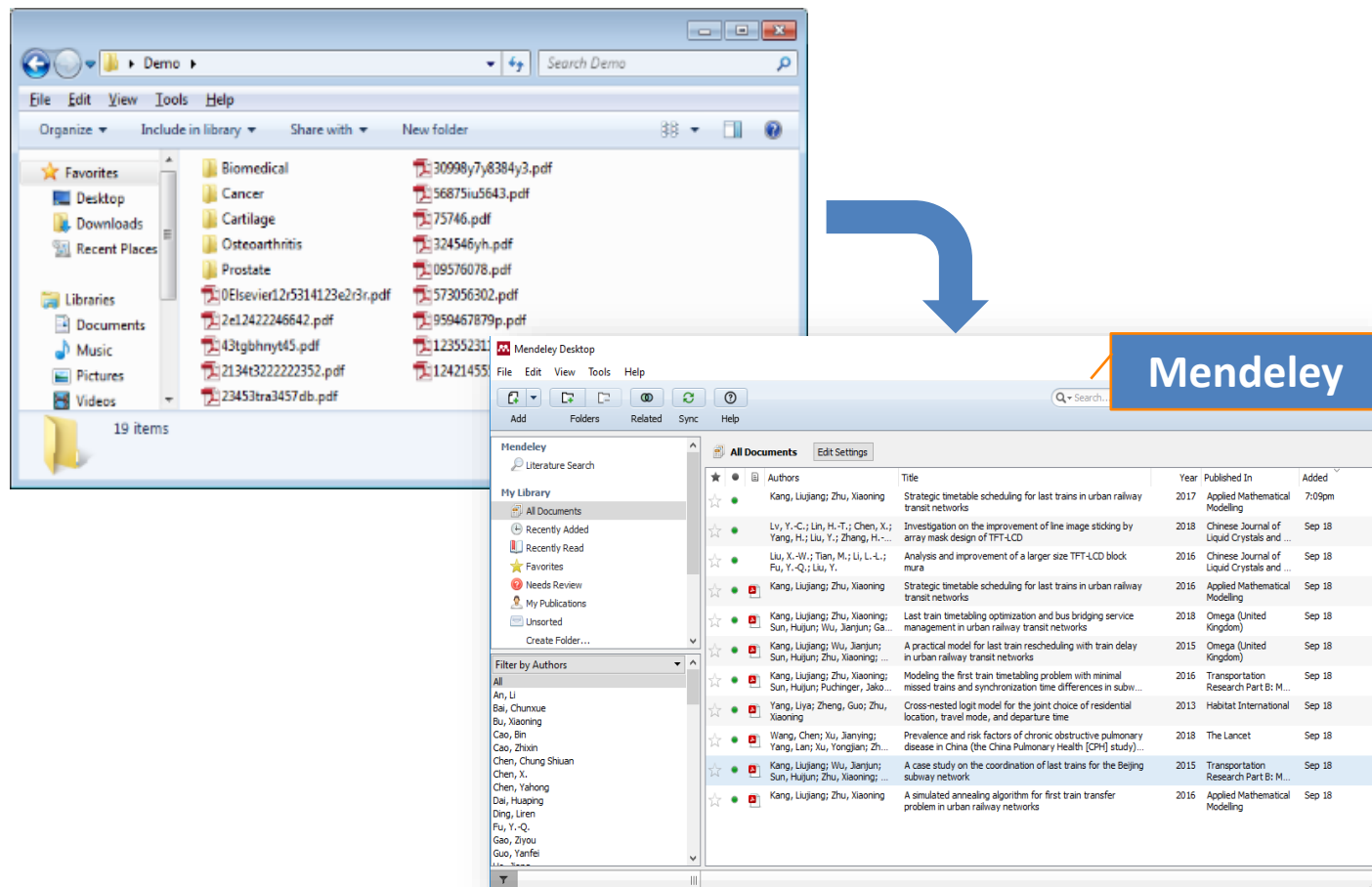
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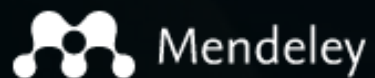
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A screenshot of the Mendeley Desktop application's login window. The window title is "Welcome to Mendeley Desktop". On the left, there is a vertical red bar with the word "MENDELEY" written vertically in white. The main content area says "Welcome to Mendeley" and contains a login form with fields for "E-mail" and "Password". Below these fields are checkboxes for "Stay signed in" and a link for "Forgot password?". At the bottom of the window, there are two buttons: "Register" and "Sign In". An orange arrow points from the "Sign In" button towards the text at the bottom of the slide.

Welcome to Mendeley Desktop

Welcome to Mendeley

E-mail

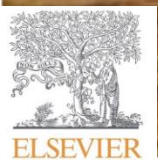
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Title	Year	Published In	Added
Highly Segregated Lamello-Columnar Mesophase Organizations and Fast Charge Carrier Mobility in New Discotic Donor-Acceptor Triads	2015	Chemistry - A European Journal	8月 21
Site-specific determination of TTR-related functional peptides by using a highly efficient photodimerization of olefins in a nanotemplate on H <sub>2</sub> O	2018	Nano Research	8月 21
Identifying Terminal Assembly Propensity of Amyloid Peptides	2019	ChemPhys	8月 21
Highly efficient photodimerization of olefins in a nanotemplate on H <sub>2</sub> O	2014	Physical Chemistry	8月 21
Competitive influence of hydrogen bonding and van der Waals interaction	2014	Journal of Physical Chemistry	8月 21
Study of the Edge-on Self-Assembly of Axially Substituted Silicon(IV) Nanowires	2015	Langmuir	8月 21
Studies on Composition and Sequence Effects in Surface-Mediated Octap	2017	Journal of Physical Chemistry	8月 21
Hydrogen bonding networks controllable by the substitution	2019	Chinese Chemical Letters	8月 21
Two-dimensional supramolecular spring: coordination driven revers	2014	Chemical Communications	8月 21
Two-Dimensional Self-Assembly of a Pair of Triangular Macrocycles	2015	Journal of Physical Chemistry	8月 21
Formation of heterocyclic and homonuclear bridged-dimeric complexes	2016	Chinese Chemical Letters	8月 21
An STM/STS study of site-selective adsorption of C <sub>70</sub> molecules onto	2017	Nanoscale	8月 21
Probing Molecular Basis for Constructing Interface Bionanostr	2018	Topics in Catalysis	8月 21
Transformation of self-assembly of a TTF derivative at the 1-phenyl	2016	Nanoscale	8月 21
Construction of two-dimensional (2D) H-bonded supramolecular nano	2013	Chinese Chemical Letters	8月 21
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Details Notes Contents

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Details are Correct Search

Type: Journal Article

**Highly Segregated Lamello-Columnar Mesophase Organizations and Fast Charge Carrier Mobility in New Discotic Donor-Acceptor Triads**

Authors: K. Zhao, L. An, X. Zhang ...

View research catalog entry for this paper

Journal: *Chemistry - A European Journal*

Year: 2015  
Volume: 21  
Issue: 29  
Pages:

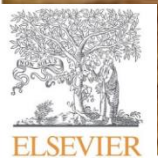
**Abstract:**

© 2015 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Four new donor-acceptor triads (D-A-D) based on discotic and arylene mesogens have been synthesized by using Sonogashira coupling and cyclization reactions. This family of triads consists of two side-on pending triphenylene mesogens, acting as the electron-donating groups (D), laterally connected through short lipophilic spacers to a central peryleneimide (PI),

分组与筛选

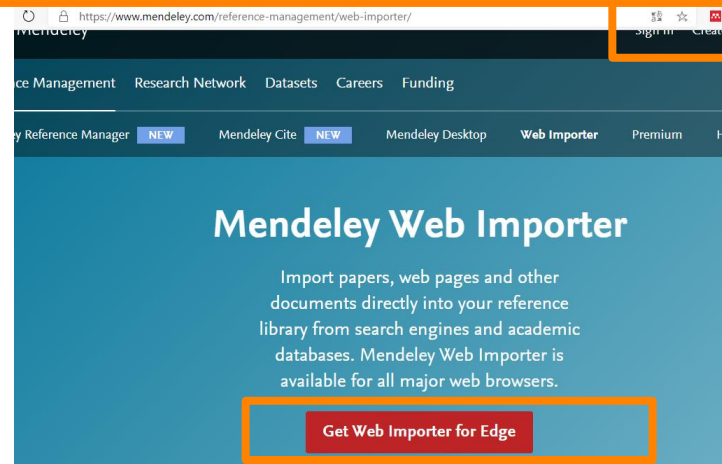
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Deepak Rawtani, Piyush K. Rao, Chaudhery Mustanar Hussain

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Nanotechnology in dentistry: Present and future perspectives on dental nanomaterials Dental Materials, November 2020, ...  
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Klaus D. Jandt, David C. Watts

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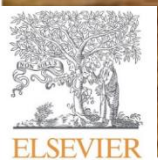
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Deepak Rawtani, Piyush K. Rao et al.  
*TrAC Trends in Analytical Chemistry*, 11 2020  
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- Nanotechnology in dentistry: Present and future perspectives on dental nanomaterials**  
Klaus D. Jandt, David C. Watts



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The screenshot shows the Mendeley Desktop application window with the 'File' menu open. Three red arrows point from text boxes on the left to specific menu items:

- '添加文件/文件夹 Watch folder' points to 'Add Files...', 'Add Folder...', and 'Watch Folder...'.
- '手动添加文献' points to 'Add Entry Manually...'.
- '从其他文献管理软件中导入' points to the 'Import...' submenu.

The 'Import...' submenu is open, showing the following options:

- BibTeX (\*.bib)
- EndNote XML - EndNote v8, X1 to X3 (\*.xml)
- RIS - Research Information Systems (\*.ris)
- Zotero Library (zotero.sqlite)

Below the submenu, a list of document entries is visible, including:

- Jereczek-Fossa, Barbara; Alicja; Pepa, Matteo; ... COVID-19 outbreak and cancer radiotherapy disruption in Italy: Survey endorsed by
- Lin, Y.; Xu, J.; Yu, L.; Yang, Y.; Wang, C. Probing Molecular Basis for Constructing Interface Bionanostructures
- Xu, J.; Zeng, Q. Two-dimensional (2D) supramolecular coordination at liquid/solid interfaces
- Xue, T.; Xu, T.; Hu, P. Highly efficient photodimerization of a

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对文献进行分组

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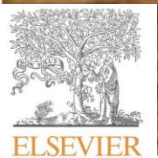
The screenshot shows a 'Library' interface with a sidebar on the left and a main list of references. The sidebar includes categories like 'All References', 'Recently Added', 'Recently Read', 'Favorites', 'My Publications', and 'Trash'. Below these are 'COLLECTIONS' (Astrophysics, Metamorphic Principles, Thesis Papers) and 'PRIVATE GROUPS' (Clinical Trial 2019, UCL Medicine Lab). At the bottom are 'PUBLIC GROUPS' (UCL Medicine 2003 Class). The main list has columns for 'AUTHORS', 'YEAR', 'TITLE', 'SOURCE', 'ADDED', and 'FILE'. Red arrows point from the text boxes to specific elements in the interface: '利用标题栏进行文献排序' points to the 'TITLE' column header; '标记已读和未读' points to the star and dot icons in the 'AUTHORS' column; '打开PDF' points to the document icon in the 'FILE' column; and '标记“收藏”' points to the star icon in the 'AUTHORS' column.

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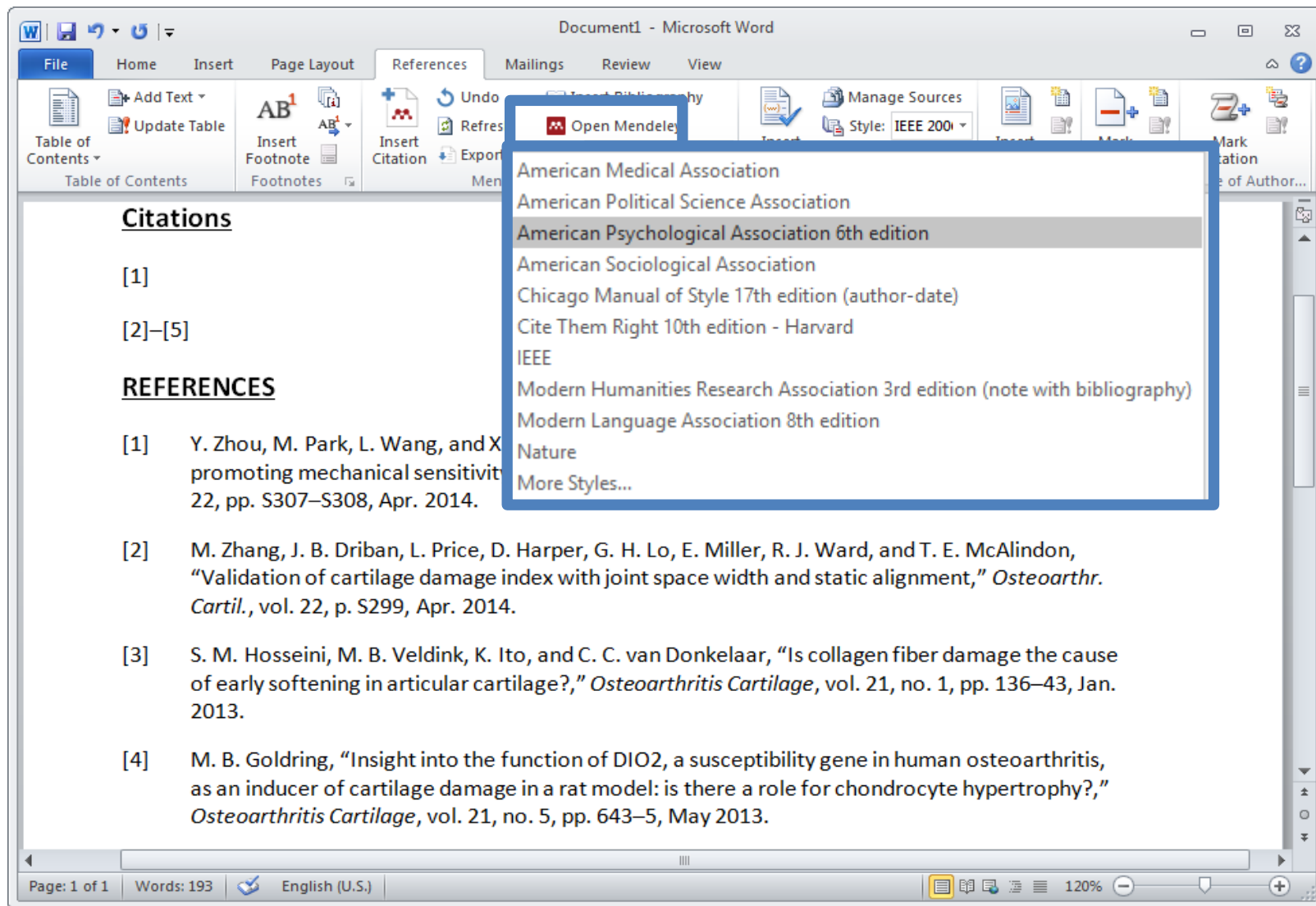


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The screenshot displays the Mendeley Desktop application window. The main article view shows the title "of young athletes" and authors "T. Golditz †, S. Steib †, K. Pfeifer †, M. Uder §, K. Gelse †, R. Janka §, F.F. Hennig †, G.H. Welsch †||\*". The article history indicates it was received on 14 February 2014 and accepted on 27 April 2014. The summary section is visible, starting with the objective: "The aim of this study was to investigate, using T2-mapping, the impact of functional instability in the ankle joint on the development of early cartilage damage." A note from user "Qingyong Woon" is added to the article, containing the text: "Ankle stability proves to be a very important element to prevent spine injuries as it acts as a base to carry the body weight of individual. It also has a important function which is to improve posture of individual. Ankle injuries are often the most frustrating injury as compared to other joints because it is the most frequent used joint". On the right side, the "Notes" tab is active, showing a "GENERAL NOTES" section with the text: "Ankle stability vs other joints". A blue "Add Notes" button is overlaid on the right side of the article view.

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The screenshot shows the Microsoft Word interface with the References tab selected. A dropdown menu is open, displaying various citation styles. The styles listed are:

- American Medical Association
- American Political Science Association
- American Psychological Association 6th edition
- American Sociological Association
- Chicago Manual of Style 17th edition (author-date)
- Cite Them Right 10th edition - Harvard
- IEEE
- Modern Humanities Research Association 3rd edition (note with bibliography)
- Modern Language Association 8th edition
- Nature
- More Styles...

The document content is visible in the background, showing a list of citations and a references section.

**Citations**

[1]

[2]–[5]

**REFERENCES**

[1] Y. Zhou, M. Park, L. Wang, and X. [unclear], promoting mechanical sensitivity in cartilage, *Osteoarthritis Cartilage*, vol. 22, pp. S307–S308, Apr. 2014.

[2] M. Zhang, J. B. Driban, L. Price, D. Harper, G. H. Lo, E. Miller, R. J. Ward, and T. E. McAlindon, “Validation of cartilage damage index with joint space width and static alignment,” *Osteoarthritis Cartilage*, vol. 22, p. S299, Apr. 2014.

[3] S. M. Hosseini, M. B. Veldink, K. Ito, and C. C. van Donkelaar, “Is collagen fiber damage the cause of early softening in articular cartilage?,” *Osteoarthritis Cartilage*, vol. 21, no. 1, pp. 136–43, Jan. 2013.

[4] M. B. Goldring, “Insight into the function of DIO2, a susceptibility gene in human osteoarthritis, as an inducer of cartilage damage in a rat model: is there a role for chondrocyte hypertrophy?,” *Osteoarthritis Cartilage*, vol. 21, no. 5, pp. 643–5, May 2013.

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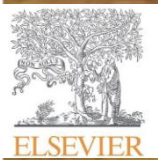
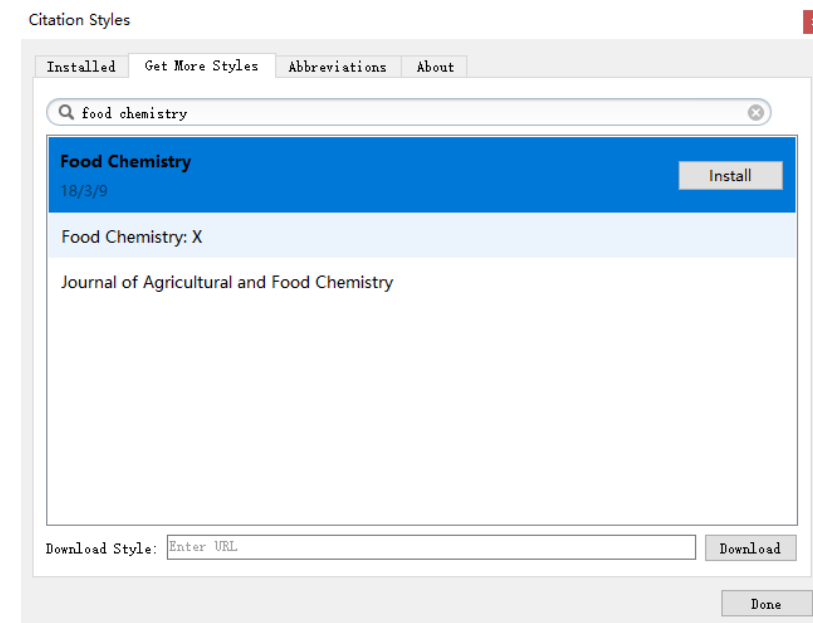
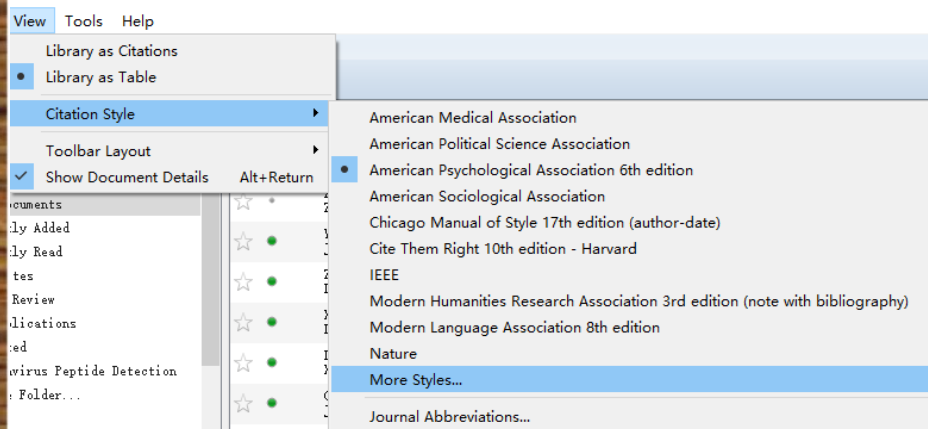
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Quantum turbulence simulations using the Gross–Pitaevskii equation: High-performance computing and new numerical benchmarks

Paper abstract

摘要


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We present high-performance and high-accuracy numerical simulations of quantum turbulence modelled by the Gross–Pitaevskii equation for the time-evolution of the macroscopic wave function of the system. The hydrodynamic analogue of this model is a flow in which the viscosity is absent and all rotational flow is carried by quantized vortices with identical topological line-structure and circulation.

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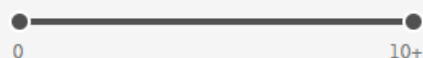
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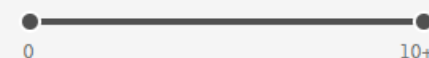
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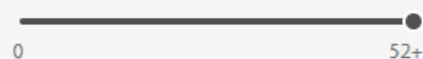
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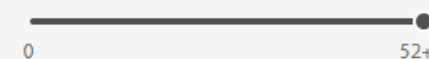
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M. Kobayashi | P. Parnaudou | F. Luddens | C. Lohodé | L. Danaila | M. Brachet | I. Danaila • January 2021

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Food Chemistry

Volume 331, 30 November 2020, 127304



Determination of the fate and biological responses of food additive silica particles in commercial foods

Jin Yu <sup>a,1</sup>, Ye-Hyun Kim <sup>a,1</sup>, Hyoung-Min Kim <sup>a</sup>, Jae-Min Oh <sup>c</sup>, Young-Rok Kim <sup>d</sup>, Soo-Jin Choi <sup>a,\*</sup>

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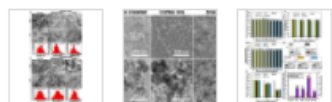
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Yu, J., Choi, S.-J.

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Highlights

- Food additive silica was an aggregated material composed of nanosized particles.
- Food additive silicas were present as nanosized aggregates in commercial foods.
- Accurate, sensitive, and cost-effective analytical method for silica was developed.
- Food additive silica did not exhibit cytotoxicity as general-grade silica did.
- Intestinal transport of food additive silica was different from that of general-grade one.

文献亮点

Abstract

Synthetic amorphous silica (SAS) is widely added to commercial foods as an anticaking agent. Concern about the potential application of nanosized silica in foods has increased as nanomaterials are not intended for use as food additives.

作者信息

Scopus  
学者档案



### Schrödinger, Erwin

Schrödinger, Erwin ; Schrodinger, Erwin ; Schrödinger, E.  
 Cambridge U. Press, Cambridge, United States

附属机构历史记录

- 1957 Cambridge U. Press, Cambridge, United States
- 1944 - 1955 Dublin Institute for Advanced Studies, Dublin, Ireland
- 1951 University Press, Cambridge, United Kingdom
- 1948 Institute for Advanced Studies, Dublin, Ireland
- 1938 Merangasse 20, Graz, Austria
- 1938 Karl-Franzens-Universität Graz, Graz, Austria
- 1932 Christian-Albrechts-Universität zu Kiel, Kiel, Germany
- 1925 - 1927 University of Zurich, Zurich, Switzerland
- 1920 II. physikal. Institut der Universität, Vienna, Austria
- 1914 Universität Wien, Vienna, Austria

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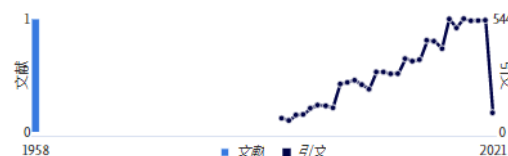
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 Schrödinger, E.  
*Die Naturwissenschaften*, 1935, 23(48), pp. 807-812  
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Pharmacological Research  
Volume 160, October 2020, 105162



### Therapeutic perspectives of heat shock proteins and their protein-protein interactions in myocardial infarction

Junxuan Wu <sup>a, b, 1</sup>, Sixuan Chen <sup>a, 1</sup>, Yuntao Liu <sup>c</sup>, Zhongqiu Liu <sup>a, b, ✉</sup>, Dawei Wang <sup>b, ✉</sup>, Yuanyuan Cheng <sup>a, ✉</sup>

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Volume 171, Issue 6, 30 November 2017, Pages 1229-1231



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## How Cryo-EM Became so Hot

Yifan Cheng<sup>1</sup>, Robert M. Glaeser<sup>2</sup>, Eva Nogales<sup>2, 3</sup>

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<https://doi.org/10.1016/j.cell.2017.11.016>

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The Royal Swedish Academy of Sciences awarded the 2017 Nobel Prize for Chemistry to Jacques Dubochet, Joachim Frank, and Richard Henderson for “developing cryoelectron microscopy for the high-resolution structure determination of biomolecules in solution.” Achieving this goal, which required innovation, persistence, and uncommon physical insight, has broadened horizons for structural studies in molecular and cell biology.

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## Cryo-Electron Microscopy

Cryoelectron microscopy showed that the flexible dimerization domain gets ordered when Ase1/PRC1 crosslinks two antiparallel microtubules [78], leading to the rod domains projecting from the microtubule-binding domains at a fixed angle [74,78].

From: Trends in Cell Biology, 2013

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## Cryo-EM, Part C: Analyses, Interpretation, and Case studies

Friedrich Förster, Elizabeth Villa, in *Methods in Enzymology*, 2010

## Abstract

Cryoelectron microscopy (cryo-EM) is an increasingly popular method to elucidate the structures of macromolecular complexes. However, in many applications the resolution of cryo-EM densities is limited to the low or intermediate resolution regime, that is,  $(10 \text{ \AA})^{-1}$  or worse. Therefore, unambiguous molecular interpretation of cryo-EM densities requires efficient use of additional information, such as

## Recent Advances in Electron Cryomicroscopy, Part B

Michael G. Rossmann, ... Pavel Plevka, in *Advances in Protein Chemistry and Structural Biology*, 2011

## Abstract

Cryo-electron microscopy (cryo-EM) in combination with single-particle analysis has begun to complement crystallography in the study of large macromolecules at near-atomic resolution. Furthermore, advances in cryo-electron tomography have made possible the study of macromolecules within their cellular

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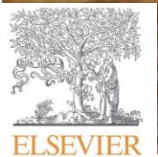
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Blogs and Tweets, Texting and Friending, October 2013, Pages 151-163

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Inorganic Chemistry Communications, Volume 10, Issue 4, April 2007, Pages 498-501  
Bing Liu, Xiu-Cheng Zhang, Yong-Hong Chen

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Xiao Chai Hu Tang

Xiao Chai Hu Tang (Minor Bupleurum) is another formula frequently used for ear infections, especially when the ear infections become recurrent.

From: Integrative Medicine for Children, 2009

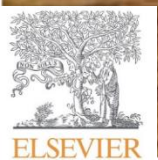
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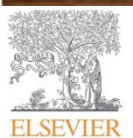
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