



选题构思指南

利用scopus&scival进行选题思考

2021-11-29

Fu Qiang



核心问题

- 我不知道从哪里找文献
- 我不知道看什么
- 文章太多，看不过来
- 我不知道怎么看
- 看了文章，不知道怎么总结
- 怎么提取思路和逻辑



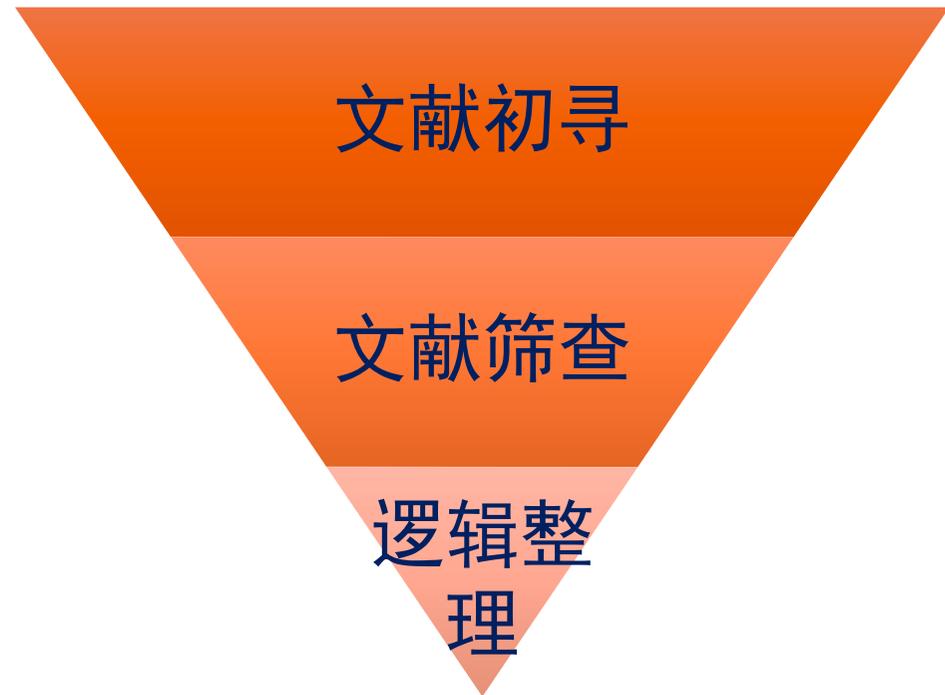
核心目的

- 让大家掌握数据库的检索方法
- 结合数据库的算法，提供一条基于数据分析的可重复性的选题方法策略



Outline

- 基础信息的收集
 - 操作方法
 - 利用Scopus调研课题
 - 利用Scival研究大牛课题进展
- 选题
 - 课题方向下的文献检索
 - 文献阅读-从点开始
- 进阶-逻辑网络的构建与填充
 - 使用思维导图构建网络



Outline

- 基础信息的收集
 - 操作方法（一个好操作的数据库）
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 - 使用思维导图构建网络

文献初寻

Scopus® 全球最大的同行评议摘要引文数据库

期刊数量 (按学科分布)	期刊	会议录	图书	专利
自然科学 8,529	24,971 活跃的同行评议期刊 5,656 金色OA期刊(DOAJ/ROAD) 15.8M 基金信息 800K 预印本记录 • 完整的元数据、摘要和引用的参考文献 (仅限于1970年后的参考文献) • 引用可回溯到1970	101K 会议录 10.47M 会议文献 特别覆盖工程、计算机等领域	63.3K 系列丛书 240K 独立图书 2.00M 图书记录 集中在社会科学与人文艺术	46.7M 专利记录 五大专利组织: <ul style="list-style-type: none"> • WIPO • EPO • USPTO • JPO • UK IPO
医学 7,136				
社会科学 10,574				
生命科学 4,915				

全

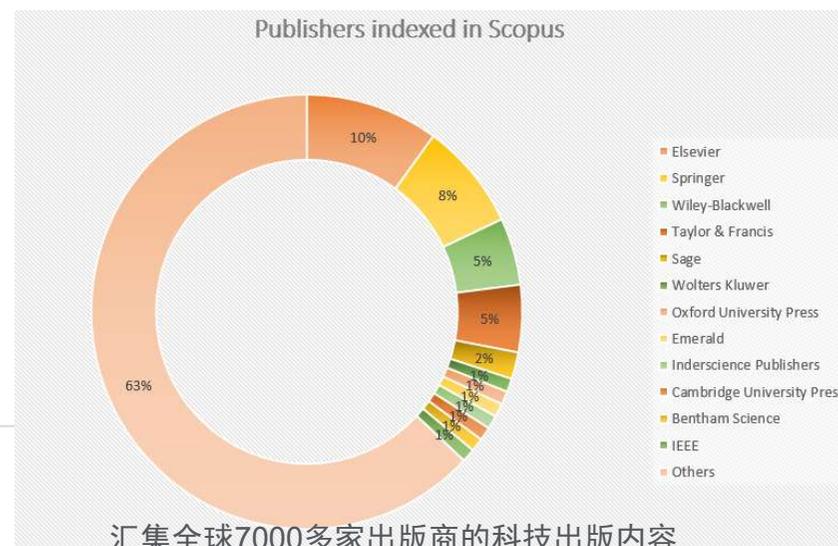
涵盖**98%**以上EI和WOS (SCI\SSCI\AHCI) 内容
 应用领域: 美国国家基金会工程指数报告 (2016-至今)、QS大学排名、THE大学排名、软科大学排名、爱思唯尔中国高被引科学家、斯坦福大学世界科学家榜

一站式科研发现大数据平台: 一库全包, 全回溯、不分库 **全**

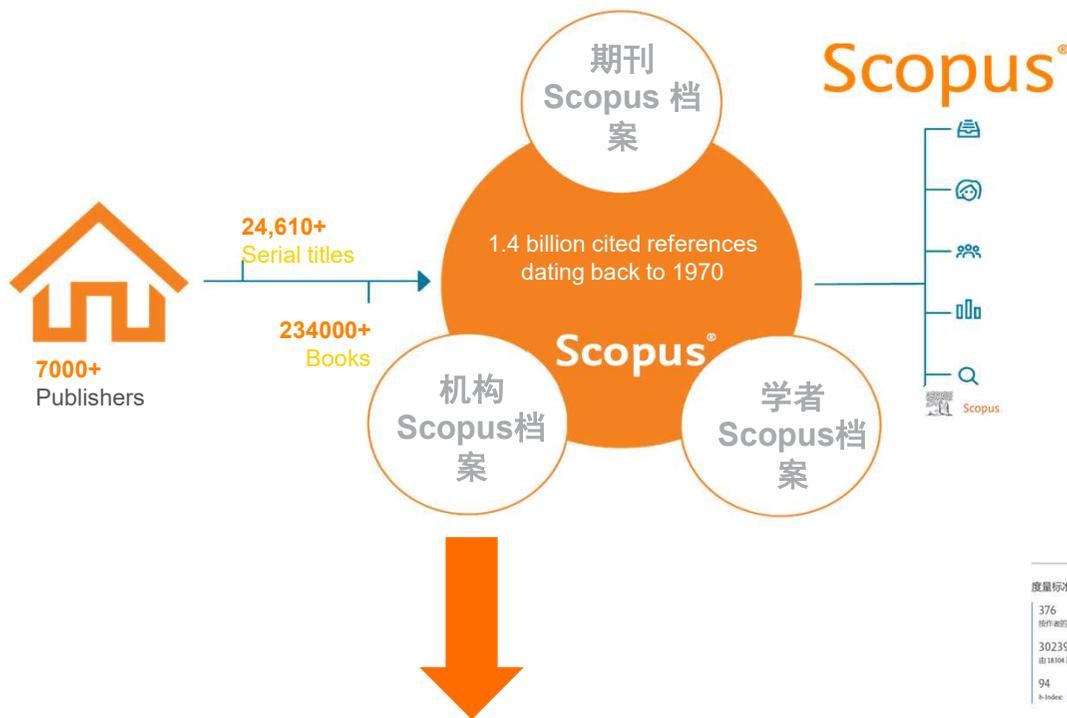
- 内容覆盖: 全球最大的同行评议摘要&引文数据库, 最早回溯至**1778**年
- 科研时效: 每天更新—约**1.1**万条科技文献记录; 收录数据量年均增长率约为8% **新**
- 开放获取: 超过**1749**万条开放获取文献, **5,656**种活跃的金色OA期刊
- 领先一步: 来自**8000**多种期刊的在线发表 (article in press) 文献, **88**万条预印本记录 (集成在作者档案中)
- 立足中国: 超过**860**种中国大陆高质量期刊 **广**



(数据截至2021年7月)



Scopus三份档案



来源出版物详情 **期刊档案**

Journal of Materials Chemistry A

以前属于: Journal of Materials Chemistry
Scopus 涵盖范围年份: 从 2013 至今
出版商: Royal Society of Chemistry
ISSN: 2050-7488 E-ISSN: 2050-7496
学科类别: [Materials Science: General Materials Science](#) [Chemistry: General Chemistry](#) [Energy: Renewable Energy, Sustainability and the Environment](#)
来源出版物类型: 期刊

查看所有文献 设置文献通知 保存到来源出版物列表 Entitled Full Text Capar EZB Ekt. Zeitschriften bib 更多

CiteScore CiteScore 排名趋势 Scopus 内容涵盖范围

CiteScore 2020 **19.7** = 199,466 引文 2017 - 2020
10,114 篇文献 2017 - 2020
更新于 May, 2021 计算

CiteScoreTracker 2021 **19.8** = 到目前为止 180,991 次引用
到目前为止 9,126 篇文献
最近更新于 October, 2021 - 按月更新

CiteScore 排名 2020

类别	排名	百分位
Materials Science	#15,455	96th
General Materials Science		

学者档案 **学者档案**

Zhi, Chunyi

City University of Hong Kong, Kowloon, Hong Kong 显示所有作者信息
8723016900 <https://orcid.org/0000-0001-6266-5953>

编辑资料 设置文献通知 保存到列表 查看作者匹配 导出至 Scopus

度量标准概览

376	376 篇出版物
30239	由 18304 篇文献引用
94	h-index 查看 h-graph

文献与引文趋势

最高贡献主题 2016-2020

- NaClO₂/PbO₂ Lithium Manganese Oxide; Lithium-ion Batteries 36 文献
- Electrochemical Capacitors; European Currency System; Adiponitrile 28 文献
- Zinc Air Batteries; Electrocatalysis; Chemical Reduction 18 文献

376 篇文献 被 18304 篇文献引用 1 预印本 666 位合著者 主题 0 Awarded grants

全部导出 全部保存至列表 排序依据 日期 (降序)

> 以检索结果格式查看列表

> 查看篇参考文献

设置文献通知

Article
All-in-one and bipolar-membrane-free acid-alkaline hydrogel electrolytes for flexible high-voltage Zn-air batteries
Zhu, S., Du, T., Gu, Y., ... Du, C., Xu, M.
Chemical Engineering Journal, 2022, 418, 112718
查看摘要 View at Publisher 相关文章 DOC XML SOLA JSON

Article - 公开访问
Electrolyte/Structure-Dependent Cocktail Mediation Enabling High-Rate/Low-Plateau Metal
0 Citations



Scopus 机构档案-中山大学

开始浏览

一站式发掘最可靠、最相关的最新研究。

文献 作者 归属机构

检索归属机构 *

Sun Yat-Sen University



Sun Yat-Sen University

No. 135, Xingang Xi Road, Guangzhou
Guangdong, China
归属机构 ID: 60021182
其他名称格式: [Sun Yat-sen University](#) [Zhongshan University](#) [Sun Yat-sen \(zhongshan\) University](#) [Zhongshan Univ](#) [Hospital Of Sun Yat-sen University](#)

文献, 整个机构 114,811 | 文献, 仅限归属机构 111,499 | 作者 49,376

按学科类别划分的文献 | 归属机构层次结构 | 合作的归属机构 | 按来源出版物划分的文献

排序依据: 文献数量 (由多到少)	
Medicine	30094
Biochemistry, Genetics and Molecular Biology	20167
Engineering	17052
Chemistry	15114
Physics and Astronomy	13783
Materials Science	13460
Computer Science	13080
Mathematics	8292
Environmental Science	7849
Agricultural and Biological Sciences	7021
Chemical Engineering	6421
Earth and Planetary Sciences	6389
Pharmacology, Toxicology and Pharmaceutics	5476
Immunology and Microbiology	4632
Multidisciplinary	4288
Social Sciences	4141
Neuroscience	3550
Energy	3097
Business, Management and Accounting	2076
Decision Sciences	1272
Arts and Humanities	1087
Economics, Econometrics and Finance	1014
Psychology	920
Nursing	847
Dentistry	758
Health Professions	579
Veterinary	432
Undefined	2

Sun Yat-Sen University

- Medicine: 24.4%
- Biochemistry, Genetics and Molecular Biology: 15.6%
- Engineering: 10.5%
- Chemistry: 8.8%
- Physics and Astronomy: 7.8%
- Materials Science: 7.1%
- Computer Science: 7.0%
- Mathematics: 6.8%
- Environmental Science: 4.3%
- Agricultural and Biological Sciences: 4.1%
- Other: 3.6%

归属机构个人资料操作

- 提供反馈
- 设置文献通知
- 导出学科类别数据

Outline

- 基础信息的收集
 - 操作方法（一个好操作的数据库）
 - 利用Scopus调研课题
 - 利用Scival研究大牛课题进展
- 选题
 - 课题方向下的文献检索
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 - 使用思维导图构建网络

文献初寻

选题的基础原则

- 从文献入手
 - 宁滥勿缺
 - 量变到质变
- 核心诉求
 - 提取关键词
(为之后的搜索提供素材)
 - 找到课题方向



Secondary Batteries; Electric Batteries; Lithium Alloys ★

[Report from template](#)

2016 to 2021

[Data sources](#)

Summary

Institutions

Countries & Regions

Authors

Scopus Sources

More... ▼

Select all | Reset

Lithium-ion
Battery

Electrochemical
Capacitor

Electrode

Electrocatalyst

Lithium

Battery

Graphite

Electrolyte

Nanosheet

Sodium-ion
Battery

Top contributors to the Topic Cluster for the selected
keyphrases:

Institutions

Top 5 by Scholarly Output

Ministry of
Education, China 3112

Chinese Academy of
Sciences 3096

Tsinghua University 1214

University of
Chinese Academy of
Sciences 1166

Central South
University 1121

Countries/Regions

Top 5 by Scholarly Output

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www.scopus.com



Scopus

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[检索提示 ?](#)

检索范围
论文标题、摘要、关键字

关键字检索 *

[+ 添加检索字段](#) [Add date range](#) [高级文献检索 >](#)

[检索](#) 🔍



开始检索，您的检索历史将出现在此处。
如需协助以开始检索，请参阅我们的
检索窍门。

案例:探索进行**锌离子电池**相关研究的可行性



概况了解



检索 来源出版物 列表 SciVal ↗



开始浏览

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检索提示 ?

检索范围
论文标题、摘要、关键字

关键字检索 *
Zn ion battery

+ 添加检索字段 📅 添加日期范围 高级文献检索 >

①大方向关键词

重置

检索 🔍

熟练后可进行检索范围和检索式的修订检索

检索历史

保存的检索 New

1 TITLE-ABS-KEY (zn AND ion AND battery)

2,744 个检索结果

设置通知 更多



🕒 Search history is only available throughout the length of your session. Save your searches to avoid losing them.

概况了解



检索 来源出版物 列表 SciVal ↗



2,744 文献搜索结果

建立感性认知
明确课题的状态

TITLE-ABS-KEY (zn AND ion AND battery)

编辑 保存 设置通知

动态追踪功能：
登录后提供检索式保存功能
保留记录&方便下次检索

在搜索结果内搜索...

精简搜索结果

限制范围 排除

开放获取

All Open Access (423) >

Gold (160) >

Hybrid Gold (51) >

Bronze (123) >



文献 辅助文献 专利

查看 Mendeley Data (20186)

分析搜索结果

②核心分析步骤

显示所有摘要 排序对象: 日期(降序)

全部 导出 Download 查看引文概览 查看施引文献 保存到列表

	文献标题	作者	年份	来源出版物	施引文献
<input type="checkbox"/> 1	Enabling a stable and dendrite-suppressed Zn anode via facile surface roughness engineering	Li, J., Le, K., Wei, W.	2022	Journal of Materials Science and Technology 102, pp. 272-277	0

查看摘要 View at Publisher 相关文章

具体分析



检索 来源出版物 列表 SciVal



分析搜索结果

< 返回搜索结果

导出 打印 电子邮件

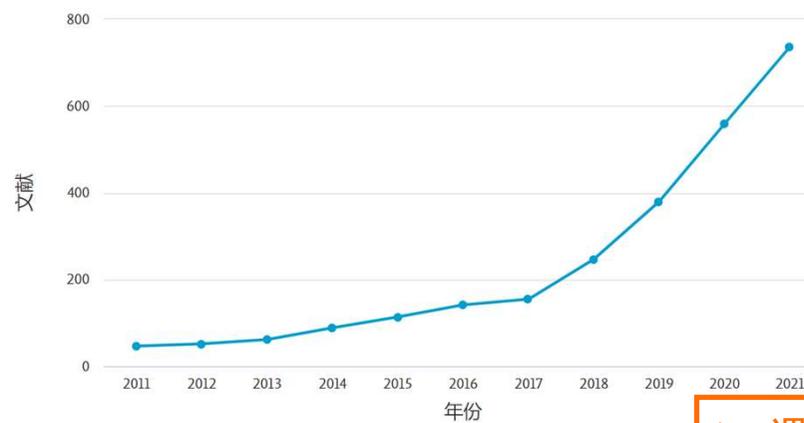
TITLE-ABS-KEY (zn AND ion AND battery)

2,583 文献搜索结果

选择要分析的年份范围: 2011 到 2021 分析

年份 ↓	文献 ↑
2021	736
2020	559
2019	380
2018	247
2017	155
2016	142
2015	114
2014	89
2013	62
2012	53

按年份划分的文献

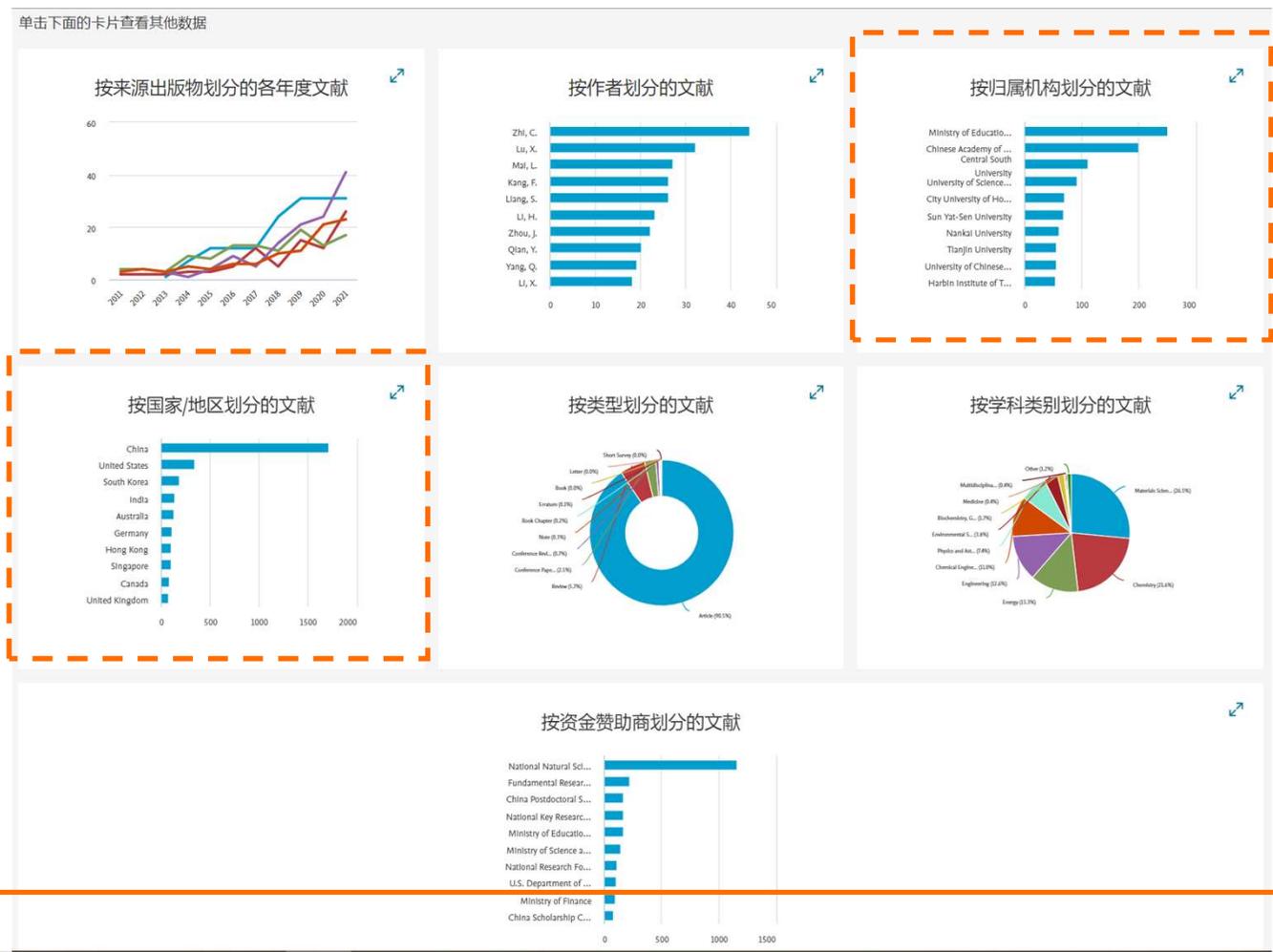


- 课题潜力
 - 文献-年份（近十年）曲线
 - 追涨杀跌
 - 增长速率决定了课题的潜力



fq4 需要补充要点
fu qiang, 2021/10/20

具体分析



课题难度

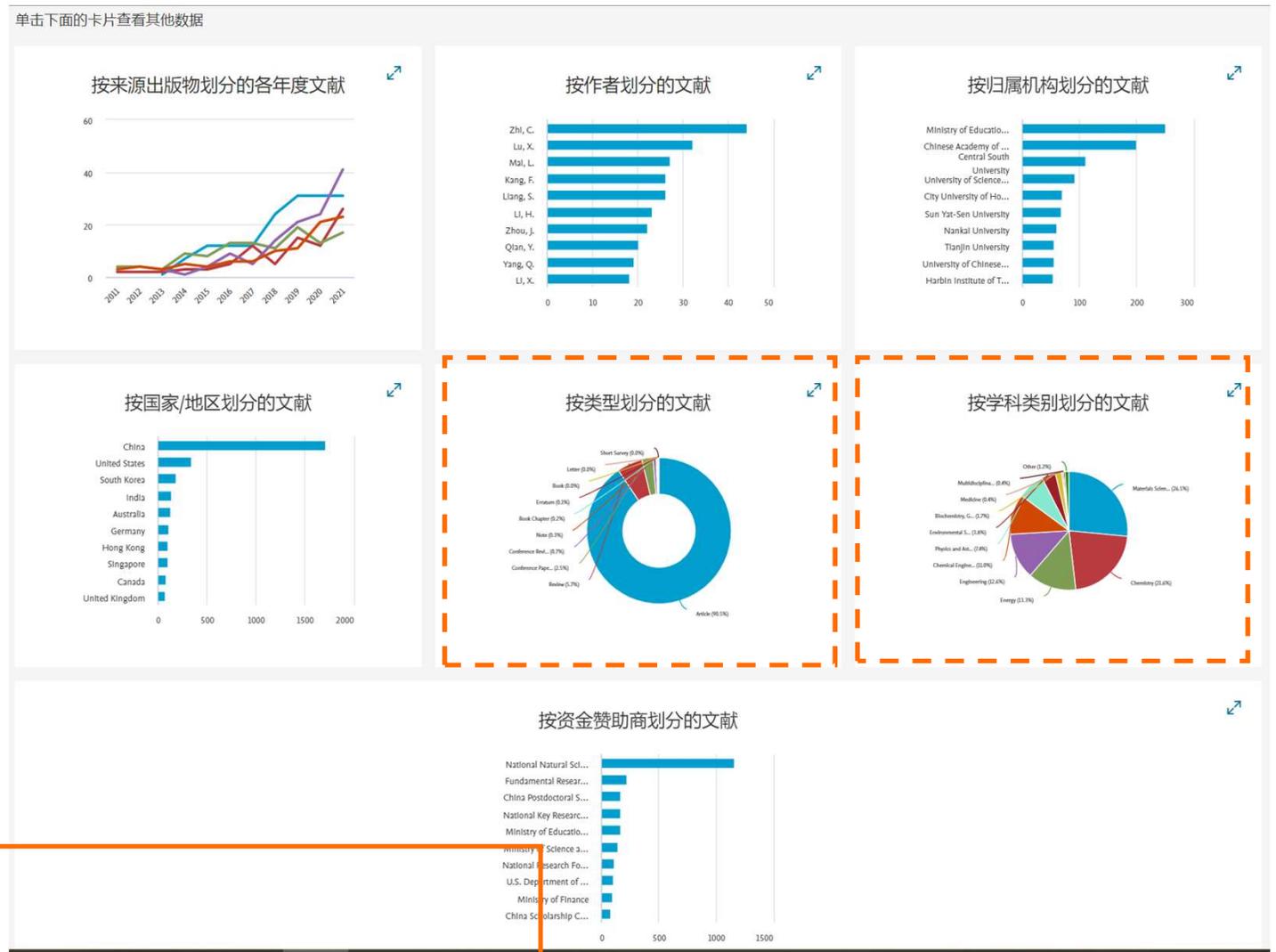


文献-年份曲线-基本盘（现在着手做的难度基础）

机构&地区（重点是中国区）-决定合作，平台，未来科研的发展走向

fq1 需要补充要点
fu qiang, 2021/10/20

概况了解



- 文章发表前景
 - 类型曲线
 - Review
 - Communication&article 决定未来可能
 - Meeting letter &Review 显示历史总结



fq5 需要补充要点
fu qiang, 2021/10/20

概况了解（总结与补充）

开始浏览

一站式发掘最可靠、最相关的最新研究。

文献 作者 归属机构

检索范围
论文标题、摘要、关键字

关键字检索 *
Zn ion battery

①大方向关键词

本阶段掌握核心重点关键

- 知道大方向即可
- 从头开始，只需要知道大课题方向就可以
- 排序对象的选择
 - 日期
 - 相关性
 - 引文数量

2,677 文献搜索结果

TITLE-ABS-KEY (zn AND ion AND battery)

编辑 保存 设置通知

在搜索结果内搜索...

精简搜索结果

限制范围 排除

开放获取

All Open Access (438) >

Gold (157) >

Hybrid Gold (44) >

Bronze (146) >

Green (220) >

详细了解

②核心分析步骤

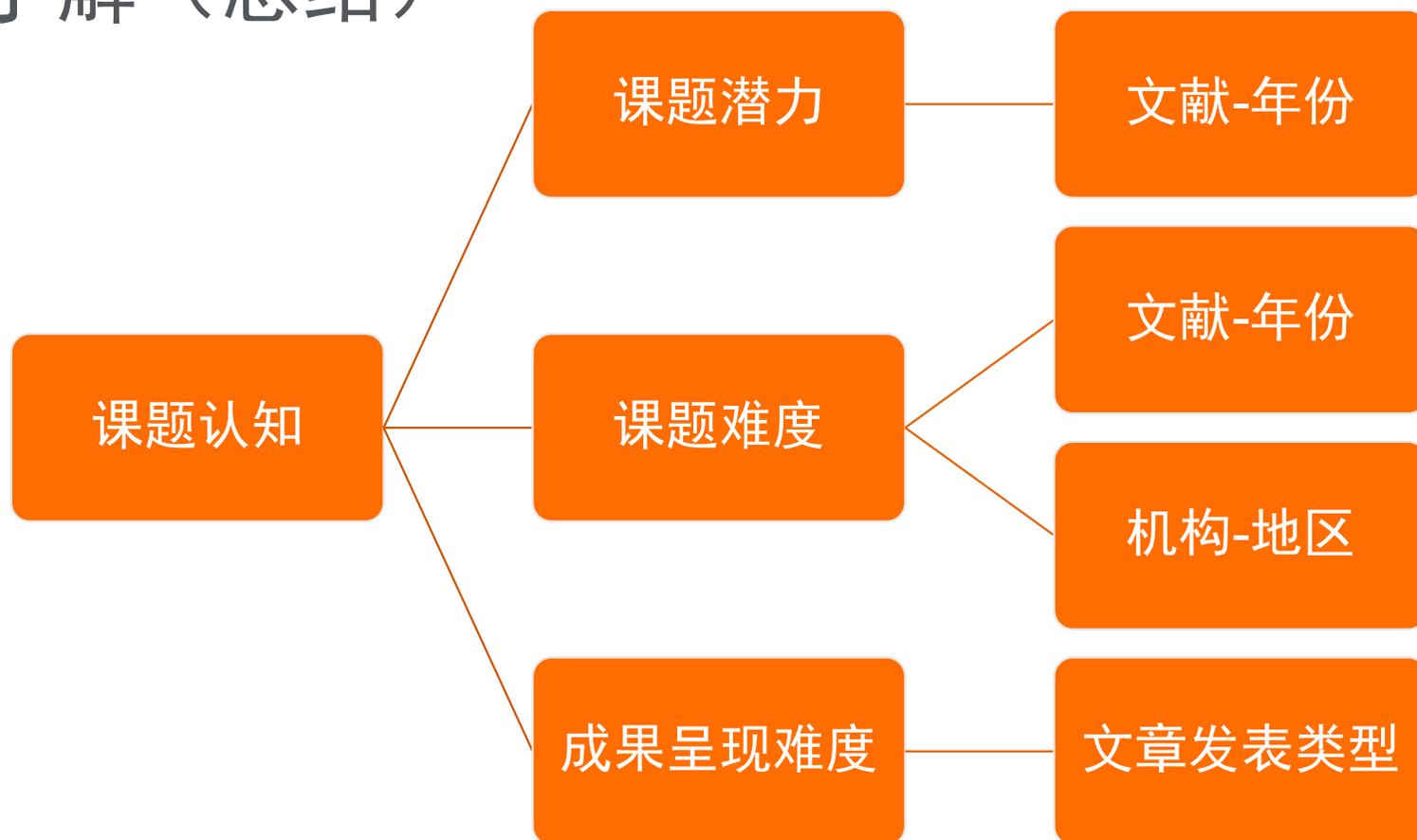
分析搜索结果

日期 (降序)

全部	导出	下载	查看全文	查看引文	添加到列表
文献标题	作者	年份	来源出版物	施引文献				
1 A four-electron Zn-I ₂ aqueous battery enabled by reversible I ⁻ /I ₂ ^{•-} conversion 开放获取	Zou, Y., Liu, T., Du, Q., (...), Zhang, L., Liang, X.	2021	Nature Communications 12(1),170	0				
查看摘要 View at Publisher 相关文章								
2 Interface Engineering via Ti ₃ C ₂ T _x MXene Electrolyte Additive toward Dendrite-Free Zinc Deposition 开放获取	Sun, C., Wu, C., Gu, X., Wang, C., Wang, Q.	2021	Nano-Micro Letters 13(1),89	0				



概况了解（总结）



对锌离子电池做一下课题展望



案例:探索进行**锌离子电池**相关研究的可行性

锌离子电池

2744篇文献

如何开始锌离子电池的调研



检索 来源出版物 列表 SciVal ↗



2,744 文献搜索结果

如何将庞杂的数据量缩减到射程范围内？

TITLE-ABS-KEY (zn AND ion AND battery)

编辑 保存 设置通知

在搜索结果内搜索...

精简搜索结果

限制范围

排除

开放获取

All Open Access (423) >

Gold (160) >

Hybrid Gold (51) >

Bronze (123) >

Green (225) >

文献 辅助文献 专利

查看 Mendeley Data (20186)

分析搜索结果

显示所有摘要 排序对象: 日期(降序)

全部

导出

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查看引文概览

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文献标题

作者

年份

来源出版物

施引文献

1

Enabling a stable and dendrite-suppressed Zn anode via facile surface roughness engineering

Li, J., Le, K., Wei, W.

2022

Journal of Materials Science and Technology 102, pp. 272-277

0

查看摘要

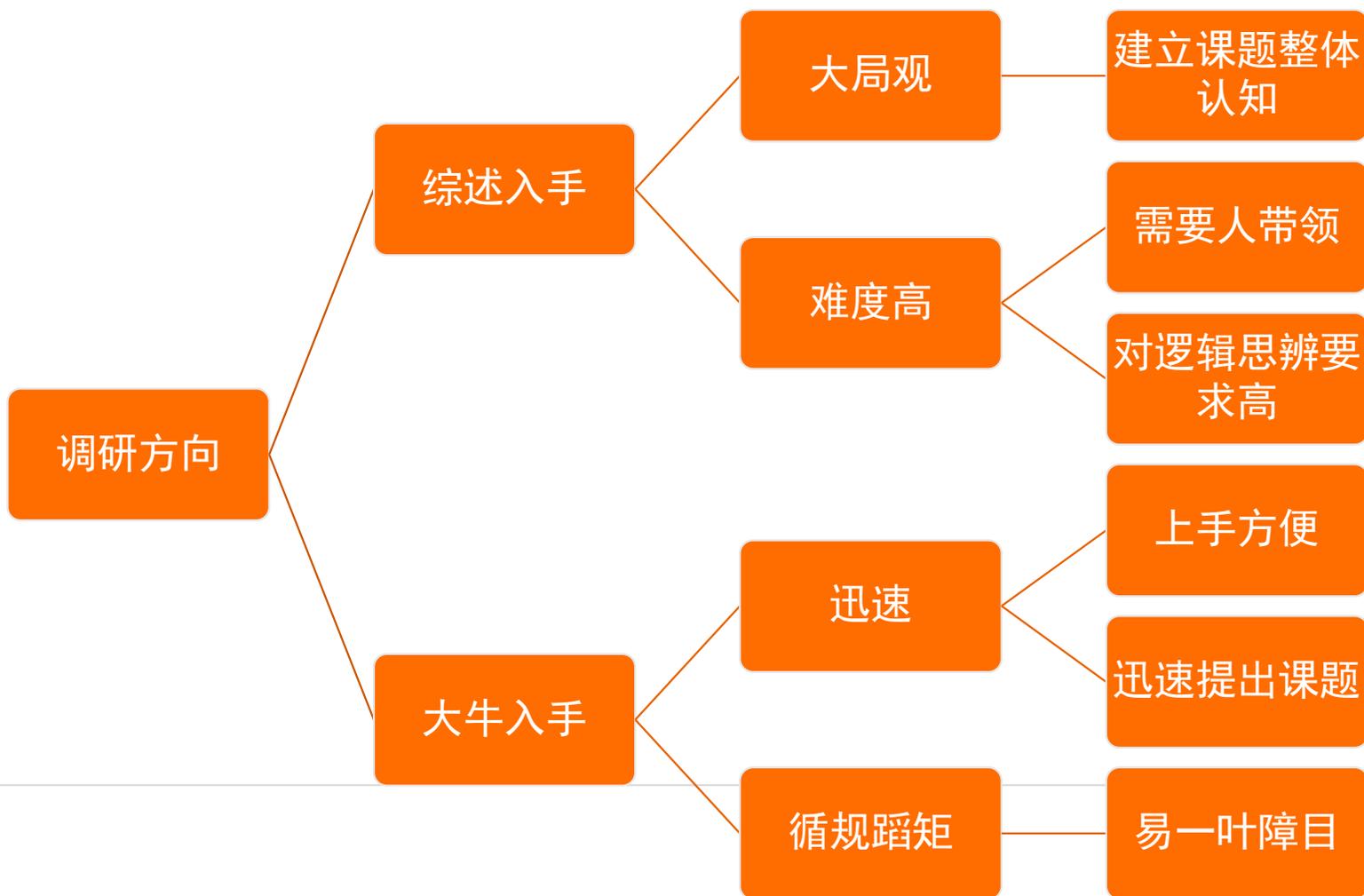


View at Publisher

相关文献



如何开始锌离子电池的调研



寻找领域合适的综述

单击下面的卡片查看其他数据



①按照类型划分
进行文献精搜



寻找综述

分析搜索结果

< 返回搜索结果

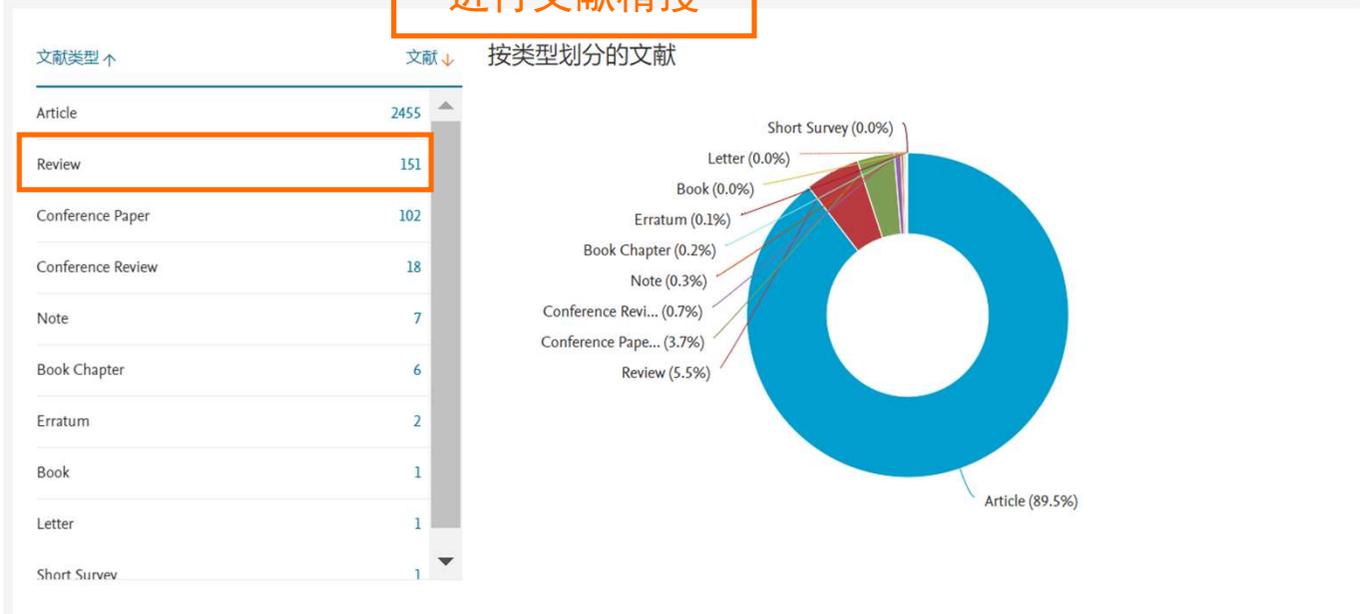
导出 打印 电子邮件

TITLE-ABS-KEY (zn AND ion AND battery)

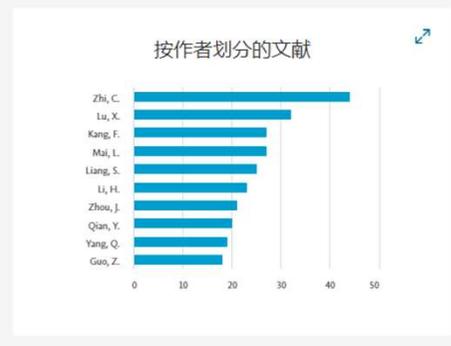
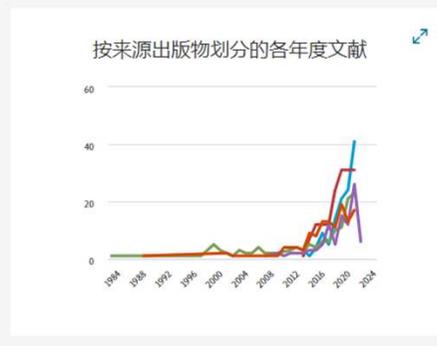
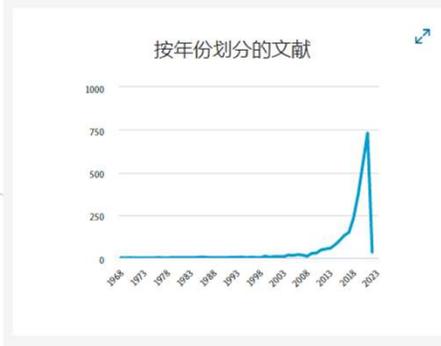
2,744 文献搜索结果

①按照类型划分
进行文献精搜

选择要分析的年份范围: 1968 到 2022 分析



单击下面的卡片查看其他数据



寻找综述

分析搜索结果

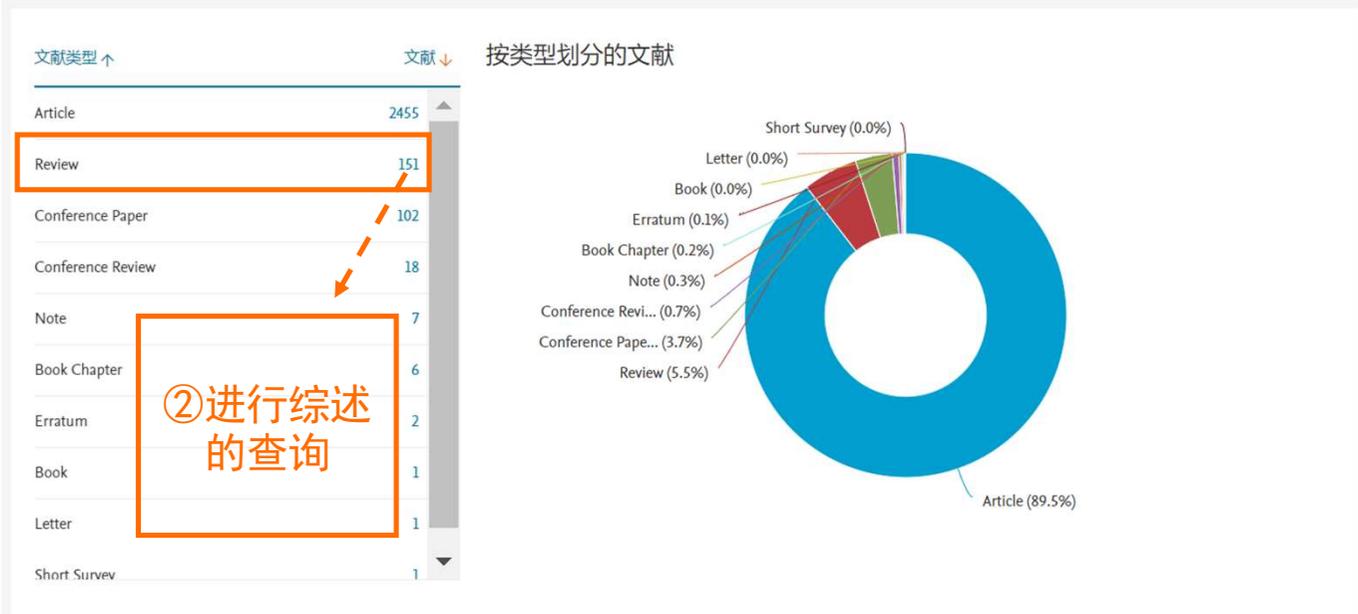
[返回搜索结果](#)

[导出](#) [打印](#) [电子邮件](#)

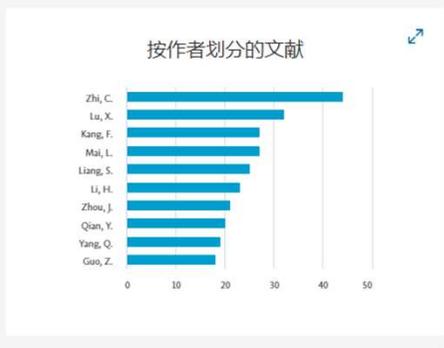
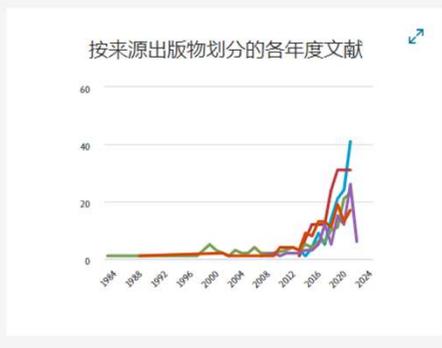
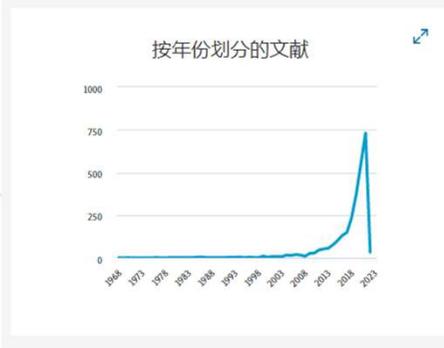
TITLE-ABS-KEY (zn AND ion AND battery)

2,744 文献搜索结果

选择要分析的年份范围: 1968 到 2022 分析



单击下面的卡片查看其他数据



寻找领域合适的综述



151 文献搜索结果

TITLE-ABS-KEY (zn AND ion AND battery) AND (LIMIT-TO (DOCTYPE, "re"))

编辑 保存 设置通知

③进行综述的查询

在搜索结果内搜索...

精简搜索结果

限制范围 排除

开放获取

年份

作者姓名

- Mai, L. (5) >
- Fan, H.J. (4) >
- Liang, S. (4) >
- Liu, X. (4) >
- Lu, J. (4) >
- Lu, X. (4) >
- Yuan, C. (4) >
- Hou, L. (3) >
- Li, H. (3) >
- Zhang, H. (3) >

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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	Different surface modification methods and coating materials of zinc metal anode	Tao, F., Liu, Y., Ren, X., (...), Wei, S., Ma, J.	2022	Journal of Energy Chemistry 66, pp. 397-412	1
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<input type="checkbox"/> 2	Interfacial parasitic reactions of zinc anodes in zinc ion batteries: Underestimated corrosion and hydrogen evolution reactions and their suppression strategies	Bayaguud, A., Fu, Y., Zhu, C.	2022	Journal of Energy Chemistry 64, pp. 246-262	0
	查看摘要	View at Publisher	相关文章		
<input type="checkbox"/> 3	Multivalent metal-sulfur batteries for green and cost-effective energy storage: Current status and challenges	Yang, Y., Yang, H., Wang, X., Bai, Y., Wu, C.	2022	Journal of Energy Chemistry 64, pp. 144-165	3
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<input type="checkbox"/> 4	Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries	Ye, Z., Jiang, Y., Li, L., Wu, F., Chen, B.	2021	Nano-Micro Letters 12(1), pp. 1-12	0



寻找综述（总结）

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文献类型	数量
Article	2455
Review	151

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 - 明确体系基本的脉络和发展
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2 Guest-species-incorporation in manganese/nanadium-based oxides: Towards high performance aqueous zinc-ion batteries	Li, Y., Zhang, D., Huang, S., Yang, H.Y.	2021	Nano Energy 85,105969	0
3 Carbon nanotubes-based electrode for Zn ion batteries	Gao, X., Yin, W., Liu, X.	2021	Materials Research Bulletin 138,111246	0



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<input type="checkbox"/> 2	Human Skin 3D Bioprinting Using Scaffold-Free Approach	Pourchet, L.J., Thepot, A., Albouy, M., (...), Blum, L.J., Marquette, C.A.	2017	Advanced Healthcare Materials 6(4),1601101	84
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<input type="checkbox"/> 3	3D cell printing of in vitro stabilized skin model and in vivo pre-vascularized skin patch using tissue-specific extracellular matrix bioink: A step towards advanced skin tissue engineering	Kim, B.S., Kwon, Y.W., Kong, J.-S., (...), Kim, J.H., Cho, D.-W.	2018	Biomaterials 168, pp. 38-53	65
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6. A New Method for Securing Dermal Substitutes and Skin Grafts to Difficult Portions of the Face Using a Custom 3D-Printed Facemask
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案例:探索进行**锌离子电池**相关研究的可行性

锌离子电池

2744篇文献

151篇综述

Outline

- 基础信息的收集
 - 操作方法
 - 利用Scopus调研课题
 - 利用Scival研究大牛课题进展
- 选题
 - 课题方向下的文献检索
 - 文献阅读-从点开始
- 进阶-逻辑网络的构建与填充
 - 使用思维导图构建网络

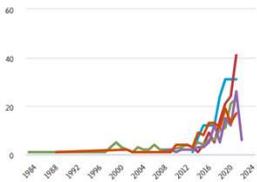


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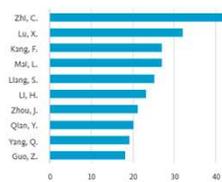
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分析搜索结果

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TITLE-ABS-KEY (zn AND ion AND battery)

2,744 文献搜索结果

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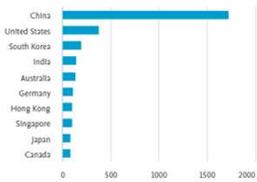


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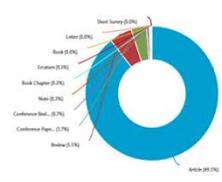
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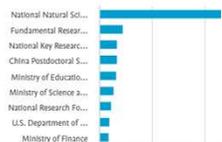
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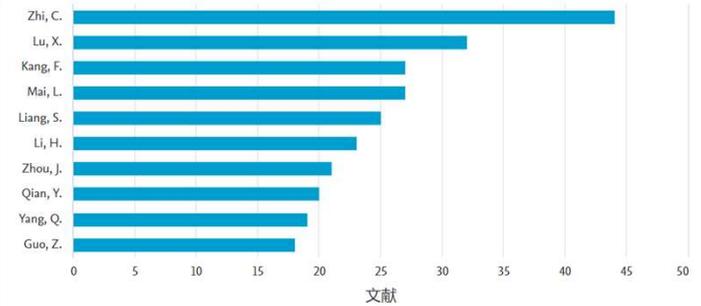
作者 ↑

文献 ↓

作者	文献
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Lu, X.	32
Kang, F.	27
Mai, L.	27
Liang, S.	25
Li, H.	23
Zhou, J.	21
Qian, Y.	20
Yang, Q.	19
Guo, Z.	18

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Zhi, Chunyi

[City University of Hong Kong, Kowloon, Hong Kong](#) [显示所有作者信息](#)

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③用scival进行研究

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- 课题相关性
- 引文趋势

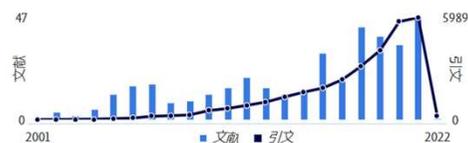
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文献与引文趋势



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最高贡献主题 2016–2020

Nati2(Po4)3; Lithium Manganese Oxide; Lithium-ion Batteries
36 文献

Electrochemical Capacitors; European Currency System; Adiponitrile
28 文献

Zinc Air Batteries; Electrocatalysts; Chemical Reduction
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All-in-one and bipolar-membrane-free acid-alkaline hydrogel electrolytes for flexible high-voltage Zn-air batteries
Zhao, S., Liu, T., Dai, Y., ...Zhi, C., Ni, M.
Chemical Engineering Journal, 2022, 430, 132718
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93 h-index

Research Topics

Topic Clusters Topics

Top 5 Topics, by Scholarly Output

Topic	By this Researcher		Worldwide
	Scholarly Output	Field-Weighted Citation Impact	Prominence percentile
Na ₂ (Po ₄) ₃ ; Lithium Manganese Oxide; Lithium-ion Batteries ... T.23080 Analyze activity of Researcher Analyze worldwide	50	8.62	99.908
Electrochemical Capacitors; European Currency System; Adiponitrile ... T.16939	31	5.47	99.734
Zinc Air Batteries; Electrocatalysts; Chemical Reduction ... T.350	15	7.86	99.983
Titanium Carbide; Sodium-ion Batteries; Ion Storage ... T.34461	14	7.92	99.943
Sodium-ion Batteries; Na ₂ (Po ₄) ₃ ; Ion Storage ... T.1727	11	4.07	99.976

[Analyze all Topics of this Researcher](#)



操作步骤

Scival的trend模块

The screenshot displays the SciVal Trends module interface. At the top, the navigation menu includes Overview, Benchmarking, Collaboration, Trends (circled in orange), Grants, Reporting, My SciVal, and Scopus. The main content area is titled '2016 to 2021' and features a 'Topic character' section with two radio buttons: 'Keyphrase analysis' (selected and circled in orange) and 'Representative publications'. Below this, it states 'Top 50 keyphrases by relevance, based on 1,869 publications'. The central part of the interface is a word cloud where 'Battery' is the largest word, followed by 'Zinc', 'Electrode', 'Lithium-ion Battery', and 'Manganese Oxide'. Other visible terms include 'Energy Storage', 'Vanadium Pentoxide', 'Secondary Battery', 'Electrolyte', 'High Voltage', 'Saline Water', 'Solid State', 'Capacitor', 'Nanoribbon', 'Electric Battery', 'Energy Density', 'Vanadium Oxide', 'Vanadium', 'Chimera', 'Electrochemical Property', 'Interlayer', 'Vanadate', 'Ion Storage', 'Manganese Oxide', 'Nanotube', 'Ion', 'High Performance', 'Graphite', 'Vanadium Compound', 'Solid Electrolyte', 'Electrochemical Capacitor', 'Manganese Dioxide', 'Solid-state Battery', 'Lithium Compound', and 'Nanowire'. An orange arrow points from the word cloud to a box containing the text '⑤获得一个小课题'. At the bottom, there is a legend: 'AAA relevance of keyphrase | declining AAA growing (2016-2020)'. On the left sidebar, the 'Others' section is circled in orange, and the 'Add new' button is visible at the bottom.

⑤获得一个小课题



大牛入手（总结）



- 这个阶段需要大量的阅读
 - 需要精度，积累
 - 明确体系基本的脉络和发展
- 学会站在巨人的肩膀上（核心）
 - 顺延考量（同行对比）
 - 侧向考量（深入研究）

关键词的搜寻（总结）

Scival的trend模块

Topics, Clusters and Groups

★ Favorites

- Sodium-ion Batteries; Electrode Materials; Quinones T.13304

Others

- Ceramic Matrix Composites; Fiber Volume Fraction; Chemical Vapor Infiltration T.1899
- Electrochemical Machining; Microtechnology; Military Electronic Countermeasures T.4589
- Electromagnetic Shielding; Effective Bandwidth; Electric

+ Add new Clean this section

Topic character

+ Add to Reporting

Keyphrase analysis Representative publications

Top 50 keyphrases by relevance, based on 1,830 publications | [Learn about keyphrase calculations](#)



①都是一个可以着手的开始



案例:探索进行**锌离子电池**相关研究的可行性

锌离子电池

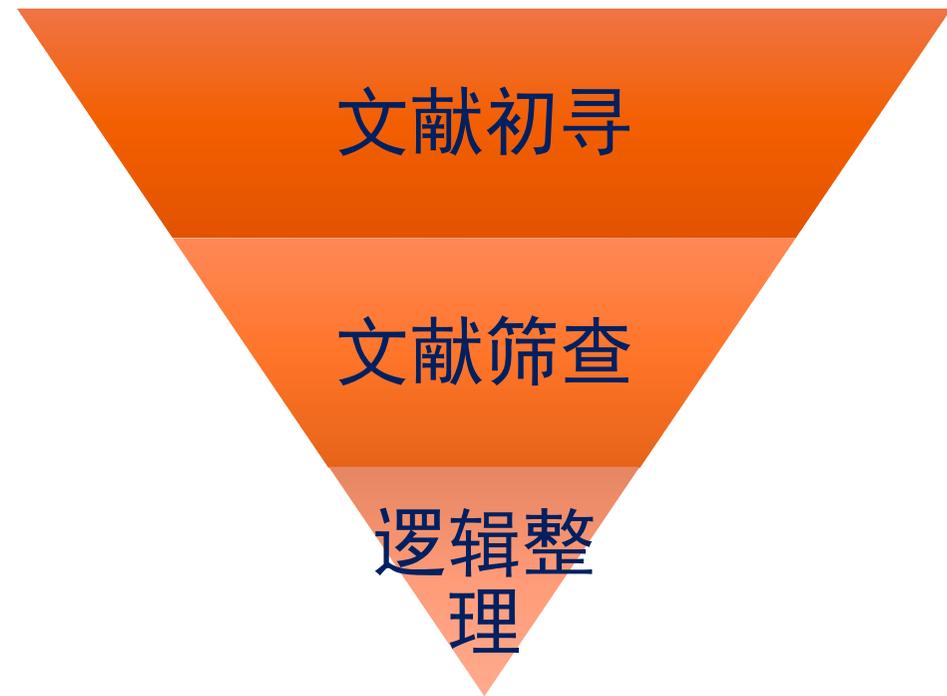
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盐水系锌离子
电池

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- 基础信息的收集
 - 操作方法
 - 利用scopus调研课题
 - 利用scival研究大牛课题进展
- 选题
 - 课题方向下的文献检索
 - 文献阅读-从点开始
- 进阶-逻辑网络的构建与填充
 - 使用思维导图构建网络



寻找（原则）

- 从细处入手
 - 勿以坑小而不填
 - 着手一个点
 - 第一个课题以训练自己为主
- 掌握科研范式（收集数据，表现数据，呈现结果）

索引关键字

Engineering controlled terms:

Cathode materials Cathodes Costs Electrolytes Energy storage Ions Structural optimization
Vanadium pentoxide Zinc Zinc compounds

Engineering uncontrolled terms

Aqueous electrolyte Composition optimization Development trends Environmental friendliness Layered Structures
Specific capacities Storage mechanism Two-electron transfer

Engineering main heading:

Secondary batteries



操作步骤

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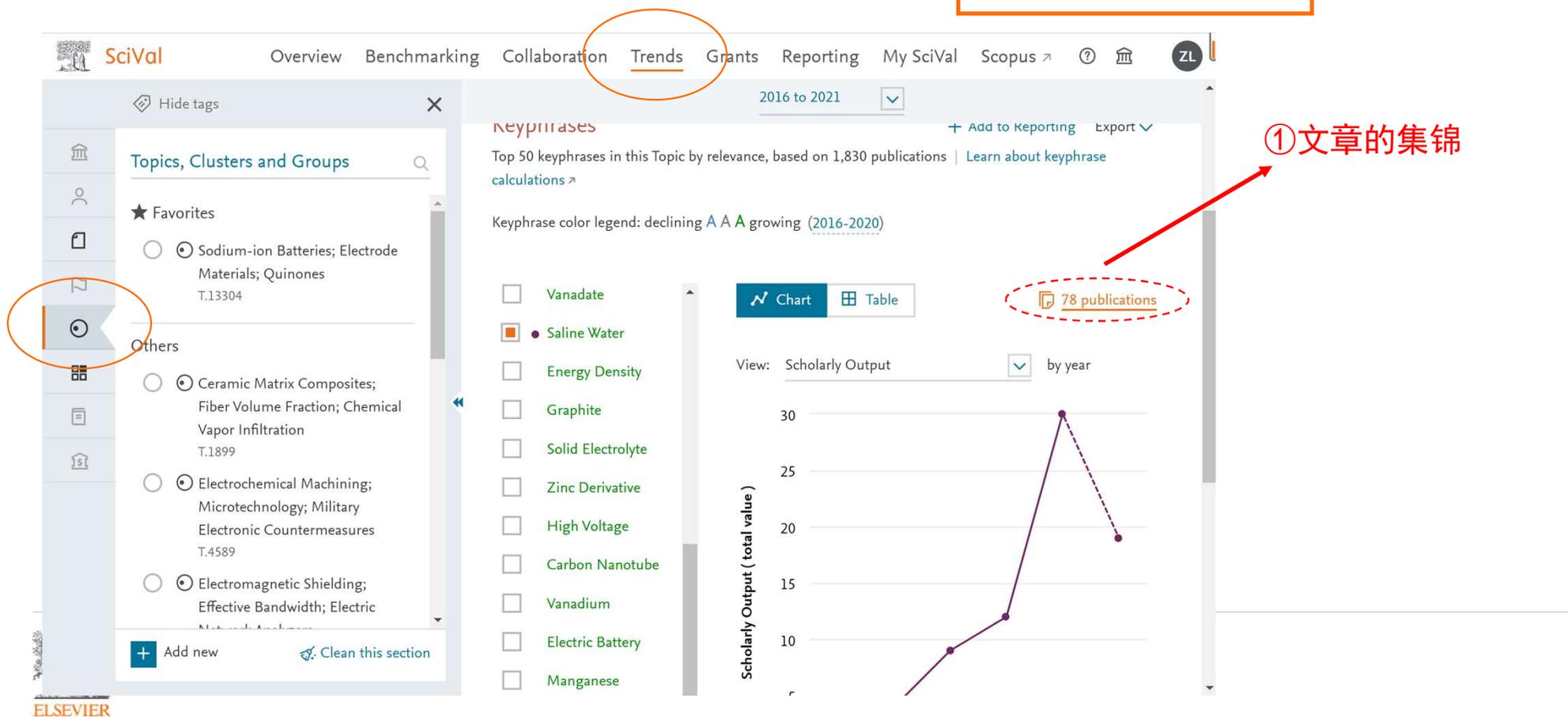
The screenshot displays the SciVal Trends module interface. The top navigation bar includes 'Overview', 'Benchmarking', 'Collaboration', 'Trends' (highlighted with an orange circle), 'Grants', 'Reporting', 'My SciVal', and 'Scopus'. The left sidebar shows 'Topics, Clusters and Groups' with a search bar and a list of topics. The 'Others' section is highlighted with an orange circle. The main content area shows 'Topic character' with radio buttons for 'Keyphrase analysis' (selected) and 'Representative publications'. Below this, it states 'Top 50 keyphrases by relevance, based on 1,869 publications'. A word cloud visualizes these keyphrases, with 'Zinc' and 'Battery' being the most prominent. An orange arrow points from the word cloud to a box containing the text '⑤获得一个小课题'. At the bottom, there is a legend for 'AAA relevance of keyphrase' and a status indicator 'declining AAA growing (2016-2020)'.

⑤获得一个小课题



课题方向下的文章检索

Scival的trend模块



课题方向下的文章检索

Publications in Nati₂(Po₄)₃; Lithium Manganese Oxide; Lithium-ion Batteries for the selected keyphrases T.23080

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Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes View in Scopus ↗ View abstract >	Huang, J., Guo, Z., Ma, Y. and 3 more	2019	Small Methods	203
High-Energy Aqueous Lithium Batteries View in Scopus ↗ View abstract >	Eftekhari, A.	2018	Advanced Energy Materials	67
Rechargeable aqueous electrolyte batteries: From univalent to multivalent cation chemistry Open Access	Demir-Cakan, R., Palacin, M.R., Croguennec, L.	2019	Journal of Materials Chemistry A	66

②针对性的文章精简

案例:探索进行**锌离子电池**相关研究的可行性



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Small Methods • 卷 3, 期 1 • January 2019 • 论文编号 1800272

Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes

Huang J.^{a,b}, Guo Z.^a, Ma Y.^a, Bin D.^a, Wang Y.^a ✉, Xia Y.^a

全部保存到作者列表

^a Department of Chemistry, Shanghai Key Laboratory of Molecular Catalysis and Innovative Materials, Institute of New Energy, iChEM (Collaborative Innovation Center of Chemistry for Energy Materials), Fudan University, Shanghai, 200433, China

^b School of Materials Science and Engineering, Nanchang Hangkong University, Nanchang, 330063, China

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Improving zinc anode reversibility by hydrogen bond in hybrid aqueous electrolyte

Du, H. , Wang, K. , Sun, T. (2022) *Chemical Engineering Journal*

Interfacial parasitic reactions of zinc anodes in zinc ion batteries: Underestimated corrosion and hydrogen evolution reactions and their suppression strategies

Bayaguud, A. , Fu, Y. , Zhu, C. (2022) *Journal of Energy Chemistry*

Aqueous rechargeable zinc batteries: Challenges and opportunities

Huang, J. , Qiu, X. , Wang, N. (2021) *Current Opinion in Electrochemistry*

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文献详情

The screenshot shows the Scopus article page for the paper "3D printing of a thermosensitive hydrogel for skin tissue engineering: A proof of concept study". The article is by Zhang, J.^a, Yun, S.^a, Karami, A.^a, Jing, B.^b, Zannettino, A.^c, Du, Y.^b, and Zhang, H.^{a,d}. The abstract is visible, starting with "Because of important functions of skin, an effective therapy is demanded for serious full-thickness skin injuries. In this study, a thermosensitive poly (N-isopropylacrylamide-co-acrylic acid) (p(NIPAAm-AA) hydrogel was prepared and successfully used for different 3D printing methods, including 3D printing with a single needle nozzle and a single syringe (3D single nozzle extrusion printing), 3D printing with coaxial needles and double syringes (3D coaxial printing), and 3D printing with a single needle nozzle and double syringes (3D hybrid printing). It was found that a relatively high cell viability of keratinocytes, fibroblasts and endothelial cells was achieved when 3D hybrid printing of the hybrid bioink (p(NIPAAm-AA) and fibrin) with cells and the cell viability was independent of cell type, seeding density, printed position and cultivation time. These skin-related cells in the hybrid...".

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- Journal Info: Bioprinting, Volume 19, September 2020, 论文编号 e00089
- Article Title: 3D printing of a thermosensitive hydrogel for skin tissue engineering: A proof of concept study (Article)
- Authors: Zhang, J.^a, Yun, S.^a, Karami, A.^a, Jing, B.^b, Zannettino, A.^c, Du, Y.^b, Zhang, H.^{a,d}
- Actions: 全部保存到作者列表
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 - ^cAdelaide Medical School, The University of Adelaide, Adelaide, SA 5001, Australia
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从点开始

3. Aqueous Batteries Using Multivalent Ions (Zn^{2+} , Mg^{2+} , Ca^{2+} , Al^{3+}) as Charge Carriers

3.1. Aqueous Zinc Batteries (AZBs)

Besides the above mentioned aqueous metal-ion battery systems, AZBs have been attracting keen interests from global researchers in the very recent years because of their high specific capacity. Generally, aqueous zinc batteries are composed of zinc-ion storage materials as cathode, zinc metal anode, and neutral (or mild acid) electrolyte. Each of the three components of AZBs will be discussed below.

3.1.1. Cathode Materials for AZBs

Generally, most ion storage materials used in aqueous Li, Na, K-ion battery can be employed as cathode materials in zinc-ion batteries, such as manganese oxides, vanadium oxides, Prussian blue analogs, etc. Because of the high theoretical capacity (308 mAh g^{-1} based on single electron transfer between Mn^{4+} and Mn^{3+}), nontoxicity, and abundance reserve, manganese

oxide is the most widely investigated cathode material for zinc-ion storage.^[34–37] As early as 1988, Zn/ZnSO₄/MnO₂ rechargeable battery system was exploited by Yamamoto and co-workers,^[38] but the mechanism of battery was unclear. Until 2009, Kang and co-workers^[39] found that alpha manganese dioxide ($\alpha\text{-MnO}_2$) can store and release zinc ion fast and reversibly, which is suitable to be the cathode materials storing zinc ion. And combining with the metal zinc anode and mild aqueous electrolyte containing zinc salt, the concept of “zinc ion battery” was proposed, although where the anode is metal zinc rather than the ion storage materials. Up to now, $\alpha\text{-MnO}_2$, $\beta\text{-MnO}_2$, $\gamma\text{-MnO}_2$, $\delta\text{-MnO}_2$, spinel-type MnO_2 , todorokite-type MnO_2 , and $\alpha\text{-Mn}_2O_3$ have been reported as host materials for zinc-ion storage.^[34–37,40–45] Due to the various crystallographic polymorphs of manganese oxides, the electrochemical reaction mechanism of manganese oxides in neutral (or mild acid) electrolyte still remains controversial.

Basically, zinc-ion insertion/extraction and proton insertion/extraction during redox of manganese oxides are the two mainstream views. Oh and co-workers^[42,43] reported the zinc-ion insertion mechanism accompanied with a series of single and two-phase electrochemical reaction, which involves reversible

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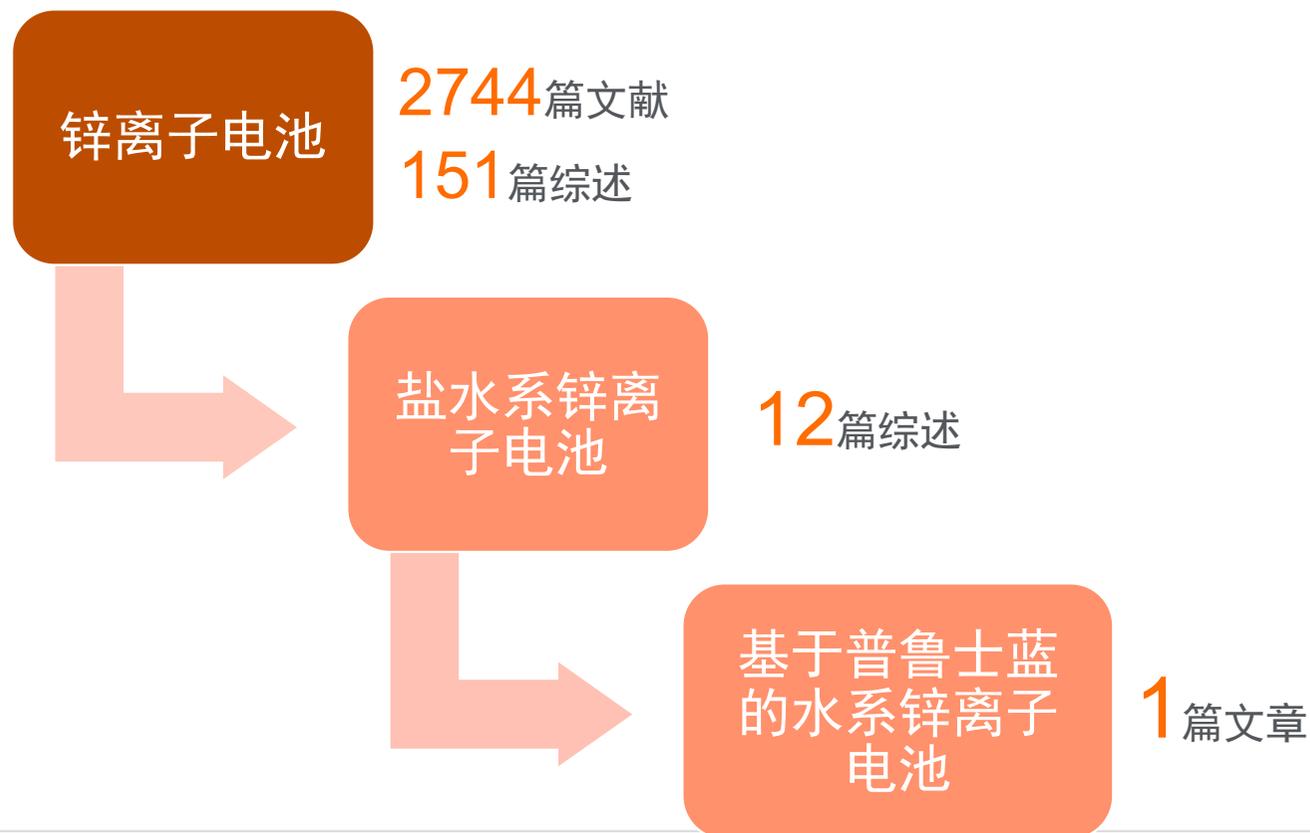
从点开始

Prussian blue analogs (metal hexacyanoferrates (MeHCFs)), as one kind of metal-organic framework materials, possess an open and tunable crystal structure. The stable and open framework containing large interstitial sites allows the kinetically easy and fast insertion/removal of guest ions. Liu and co-workers^[58] proposed zinc hexacyanoferrate (ZnHCFs) as intercalation hosts for Zn^{2+} . And yielding an average operation voltage of ≈ 1.7 V versus Zn^{2+}/Zn , which is the highest recorded operation voltage for aqueous Zn batteries. Furthermore, this group synthesized three rhombohedral phase ZnHCF particles (cubooctahedral, truncated octahedral, and octahedral shapes),^[59] and pointed out that the sample with cubooctahedral shape exerts the best rate capability and cyclic stability. Besides the zinc hexacyanoferrate, copper hexacyanoferrate,^[60,61] nickel hexacyanoferrate,^[62] and iron hexacyanoferrate^[63] can also be employed as cathode materials for aqueous zinc battery. Unfortunately, the capacity of Prussian blue analogs is relative low (< 100 mAh g^{-1} at 1 C, i.e., 60 mA g^{-1} , lower than both vanadium oxides and manganese oxides). Although some of Prussian blue analogs exert high and flat discharge voltage > 1.5 V versus Zn^{2+}/Zn , the energy density is still uncompetitive.

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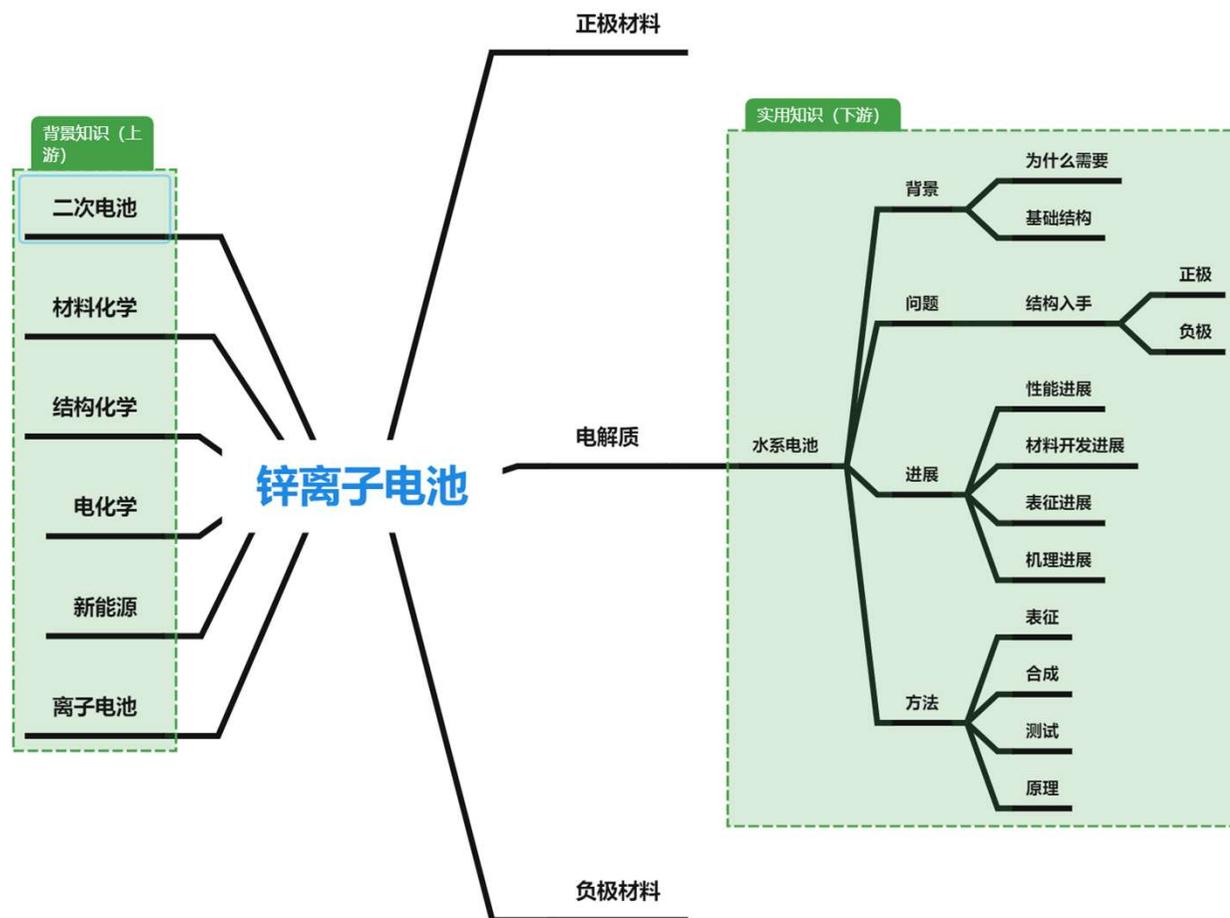
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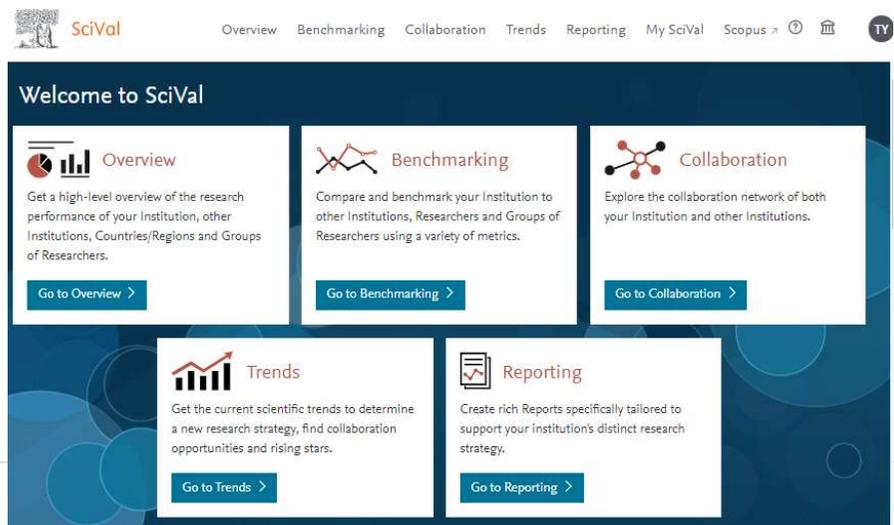
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