Scopus AI—使用说明及功能特色

Scopus 数据源



时间:数据最早回溯到1788年,Scopus AI 可访问的数据包含最新的收录数据

类型: 含多种文献类型: 期刊论文, 会议论文, 图书等

学科:覆盖自然科学、生命/医学和社会科学等全学科

Scopus 兼顾数据体量与质量



Scopus 检索功能示例

特色指标及功能

Scopus除了提供引用次数、归一化影响力指标 FWCI、引用百分位、期刊的影响力及 排名指标外,还提供 PlumX 替代计量学指标(政策文件引用、专利引用、临床引用)、研 究主题显著度等特色指标,旨在帮助学者快速获得科研有效信息、相关科研产出的前沿热 度以及社会影响力。



Scopus 学者档案

Scopus 学者档案功能可以为科研检索以及学科服务带来诸多便利:

- 一线科研工作者可以通过 Scopus 学者档案快速了解自身过往科研表现、主要贡献 研究主题、合著作者等信息,也可以通过学者档案追踪相关领域顶尖学者的前沿研 究内容等。
- 完整、准确的学者档案数据能够节省学科服务工作中对于学者信息进行消歧处理所 花费的时间。
- Scopus 学者档案可以对接机构知识库,为机构知识库提供学者的科研文献相关数 据和指标。

• 爱思唯尔中国高被引学者、斯坦福前 2%顶尖科学家榜单均采用 Scopus 作为数据 源。



学者档案示例

特色指标及功能

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研究主题显示度

研究主题是基于 Scopus 中超过 1 亿篇文献数据和 10 亿+的直接引用关系聚类而成 的文献簇,用以表征某篇文献的研究方向以及细分研究领域。全领域文献聚类生成约 1500 个研究主题簇以及 94000 个研究主题。通过为研究主题簇或研究主题标明主题显示 度指标来表征相关研究的全球关注度/前沿热度。主题显示度采用突出百分比的形式来描 述,例如:主题显示度指标 90.112 代表该主题的前沿热度排名为全球前 10%。此外还可 以通过研究主题功能查看在研究主题下近年代表性文献、顶尖科研学者以及相关研究的关 键字词云分析结果,帮助学者了解该细分领域内的研究热点以及全球顶尖学者。

SciVal 主题 ①		^		mperature Programmed Desorption	×
主题名称 突出百分比	Acetylene; Catalyst; Temperature Programmed Desorption 90.112 ①		代表性文献 此主题中的顶尖作者 关键字分析	此主题中的顶尖作者	文献
Acetylene; Catalyst;	Temperature Programmed Desorption	×	Ì	Zhang, Jinli	34
Line and				Zhao, Jia	23
代表性文献 此主题中的顶尖作者	代表性文献			Li, Xiaonian	22
关键字分析	该主题下的代表性出版物关联紧密,意在让我们直观感受某个主题的中心研究 问题。它们通常具有许多主题内链接,在主题内链接的比例很高,并且多年来 有着相对较高的引用。	- 1		Zhu, Mingyuan	20
	Article			Wang, Bolin	18
	Highly Efficient Rull/LAC to Substitute Mercuric Catalyst for Acetylene Hydrochlorination Shing S. Zhao, W.,, L.W. AC Catalysis, 2017 Article	<mark>67</mark> 施引文献		关键字分析 ^{Math Performance} Bathanium Concerned Math	查看方式 司云 ~ Perset Dependent Particlers Defection Station
	Identification of single-site gold catalysis in acetylene hydrochlorination Mala, G.Joodrat, S.A.,, Hutching, G.J. Seime, 2017	271 施引文献		Heuropeneon Meel Necessitie Dainy or Similary Sonn Tensivers Program Paid Bed Research Sonner Charles Charles Neurosciencify Regenerates Cupic Charles Pharty Get Alergress Palledum	All Contracts Instanting Contracts National Section 2014 Instantia S
	Article Ru-Co(III)-Cu(II)/SAC catalyst for acetylene hydrochlorination Zhong H.Li, W.,, Zhong, J. Applied Catalysis R: Environmental, 2016	65 施引文献		Matalorganic Frameworks Gold Camle Gald Compounds Gr	Ruthenlam Telyisa Dalahosa Yangan is Nittogen Marka Santoy Devis Contrast Telyis (Nin) Devis Contrast Telyi (Nin) Devis Contrast (Nin) Devis Vision (Nin) Devis Vision (Nin) Devis Vision (Nin) Devis (Contrast (Nin) Devis (Contrast (Nin)) Devis (Nin)) Devis (Nin)) Devis (Nin) Devis

PlumX 替代计量学指标

Scopus 中创新性地引入了 PlumX 社会影响力指标,通过政府文件引用、专利引用、临床引用、新闻报道及社交媒体讨论等数据展现相关研究的经济和社会影响力。

PlumX Metrics					Sign in 🕐
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				s for mortality of adult inpatients ina: a retrospective cohort study ssue: 10229, Page: 1054-1062	13,984 16,902 599 53,230 Gitations Captures Mentions Social Media 引用、阅读、提及、社交媒体
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Scopus 数据源



时间:数据最早回溯到1788年,Scopus AI 可访问的数据包含最新的收录数据 类型:含多种文献类型:期刊论文,会议论文,图书等 学科:覆盖自然科学、生命/医学和社会科学等全学科 Scopus 兼顾数据体量与质量



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- 完整、准确的学者档案数据能够节省学科服务工作中对于学者信息进行消歧处理所 花费的时间。
- Scopus 学者档案可以对接机构知识库,为机构知识库提供学者的科研文献相关数 据和指标。
- 爱思唯尔中国高被引学者、斯坦福前 2%顶尖科学家榜单均采用 Scopus 作为数据 源。



学者档案示例

特色指标及功能

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Reaxys 化学数据库相关信息

Scopus 能够通过链接 Reaxys 数据库自动获取文献中提及的各类物质的化学品名称、化学表达式、CAS 注册号等相关信息,并提供生物活性、物理数据、光谱等可用数据,帮助学者快速了解文献研究内容以及相关化学物质的有效信息。

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^b School of Chemistry and	 ^a School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China ^b School of Chemistry and Chemical Engineering, Shihezi University, Key Laboratory for Green Processing of Chemical Engineering of Xinjiang Bintuan, Shihezi, Xinjiang 832000, China 							
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				其他数据 (204)	~			
技术支持 Reaxys								

研究主题显示度

研究主题是基于 Scopus 中超过 8600 万篇文献数据和 10 亿+的直接引用关系聚类而 成的文献簇,用以表征某篇文献的研究方向以及细分研究领域。全领域文献聚类生成约 1500 个研究主题簇以及 96000 个研究主题。通过为研究主题簇或研究主题标明主题显示 度指标来表征相关研究的全球关注度/前沿热度。主题显示度采用突出百分比的形式来描 述,例如:主题显示度指标 90.112 代表该主题的前沿热度排名为全球前 10%。此外还可 以通过研究主题功能查看在研究主题下近年代表性文献、顶尖科研学者以及相关研究的关 键字词云分析结果,帮助学者了解该细分领域内的研究热点以及全球顶尖学者。

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主题名称 突出百分比	Acetylene; Catalyst; Temperature Programmed Desorption 90.112 ①		代表性文献 此主题中的顶尖作者 关键字分析	此主题中的顶尖作者	文献
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	Article Identification of single-site gold catalysis in acetylene hydrochlorination Malta, G.,Kondrat, S.A.,, Hutchings, G.J. Seime, 2017	271 施引文献			Service S
	Article Ru-Co(III)-Cu(II)/SAC catalyst for acetylene hydrochlorination Zhang, H.,Li, W.,, Zhang, J. Applied Catalysis R: Environmental, 2016	65 施引文献		Perspectific and Everyworks Mercury Enviced Lind Paragrams Ionic Upud Sulf Can Dehydrochomoran Catallyst in residen Seladiogram Framwork and Companyane are Coden Nangeride Paragram Coloride	Razhan Berger Daherten Kressen Nitroren Merere Oberger Geherten Krassing Deres ferenzeit Berg Steller Statististister UMPI Of London Seesalle Conject Berger Steller Statististister Statististister Mere Orden Vinde Merere Berger Anders Vinde Materia

PlumX 社会影响力指标

Scopus 中创新性地引入了 PlumX 社会影响力指标,通过政府文件引用、专利引用、临床引用、新闻报道及社交媒体讨论等数据展现相关研究的经济和社会影响力。

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Step 1: Scopus AI 自然语言提问

将大语言模型(LLM)应用到 Scopus AI 中,让科研人员可以直接**通过对话提问的形式对** 任意科学问题进行提问,比如直接在对话框中提问:

可以吸收电磁波的服装材料有哪些?请用表格总结

В.	Scopus	Q.检索					
		开始浏览					
		文献 作者 研究人员发现 组织 <u>Scopus AI</u>					
		Temporary conversation					
		Explore topics and discover relevant references since 2003					
		可以吸收电磁波的服装材料有哪些?请用表格总结 →					
		Show conversation history					
		Conversation examples					
		→ What impact do microplastic pollutants have on marine biodiversity in coastal regions?					
		→ How can international cooperation be improved to effectively address global climate change?					
		└→ How does chronic sleep deprivation affect cognitive decline in aging populations?					

支持中文提问, Copilot 功能可以展示科学问题的形成过程, 使 AI 检索过程更加透明。

- 自然语言转换:帮助学者问出好问题
- 关键词检索: 辅助构建检索式

可以吸收电磁波的服装材料有哪些? 请用表格总结

Hide Copilot steps 🔥

- ⊘ Creating a plan to answer your query
- ⊘ Performing natural language search:
 - What materials can absorb electromagnetic waves?
 - What are the applications of electromagnetic wave absorbing clothing materials?
 - What are the performance characteristics of electromagnetic wave absorbing clothing materials?

⊘ Generating summary

Step 2 Scopus AI 可溯源的概要及参考文献

基于提问, Scopus AI **生成一段对此提问基于科研论文的概要,并提供了数篇主要引用的 科研文献**,概要中每句描述都给出了相应的引用文献:

可以吸收电磁波的服装材料有哪些?请用表格总结

Show Copilot steps 🗸

Summary

Based on the provided abstracts, several materials have been identified as effective for absorbing electromagnetic waves and can be used in clothing. Below is a summary table of these materials:

Material	Description	Properties	Applications
Conductive Polymers	Polymers with adjustable conductivity	Low density, adjustable conductivity, electrical and magnetic loss characteristics	Electromagnetic shielding clothing 1 2 3
Carbon Nanotubes	Cylindrical nanostructures made of carbon	High surface area, excellent electrical conductivity, strong absorption properties	Composite absorbers, electromagnetic shielding fabrics 1 4 5
Ferrites	Magnetic materials composed of iron oxides	High magnetic loss, good absorption in high- frequency bands	Electromagnetic shielding, radar stealth applications 2 6 7
Graphene	Single layer of carbon atoms arranged in a hexagonal lattice	High surface area, excellent electrical conductivity, multiple scattering	Composite absorbers, electromagnetic shielding fabrics 2 8
Nano Aluminum	Fabric embedded with	High reflectivity, good	Electromagnetic

References

Reference 1 Promising materials for microwave absorbers Kazantseva N.E., Ryvkina N.G., Chmutin I.A. Journal of Communications Technology and Electronics 🗆 2003

Reference 2

Electromagnetic Wave Absorbing Materials: Fundamentals and Applications Wu H., Luo]., Yang M. Electromagnetic Wave Absorbing Materials: Fundamentals and Applications 🛛 2024

Reference 3

Research Progress of the Composite Wave-absorbing Material of Conductive Polymer/Magnetic Particle Liu F., Zhao X., Zheng Y., Zhao R. Advanced Textile Technology 7 2021

Show all 11 references

Step 3 查看扩展概要及相关参考文献

Scopus AI 提供"扩展概要"(Expand Summary),对选定的科学问题进行渐进式研究和扩 展,并得到有逻辑的基本综述框架,可以精读问题相关的基础性文献

Expanded summary

Based on the user's query, I will provide a summary that addresses the key properties of materials suitable for absorbing electromagnetic waves in clothing, the optimization of clothing design to incorporate such materials, the challenges in integrating these materials into clothing, and the latest advancements in the development of these materials.

Key Properties of Materials Suitable for Absorbing Electromagnetic Waves in Clothing:

- Ferromagnetic Materials: Ferromagnetic materials, such as those with a shell-core structure, exhibit high absorption strength and wide absorption bands. However, they have poor oxidation resistance and temperature stability 1.
- **Graphene:** Graphene, due to its interfacial polarization and multiple scattering properties, can absorb electromagnetic waves. However, its excessive specific surface area and intermolecular forces can lead to agglomeration with other substances, limiting its application 1.
- Reduced Graphene Oxide: This material, prepared by the Hummers method, has structural defects and oxygen-containing functional group residues, affecting its solubility and dispersibility

 .
- Composite Fabrics: Composite multifunctional textile materials, such as PPy/Fe3O4/rGO polyester/cotton fabrics, have been developed with excellent wave-absorbing properties, UV resistance, antistatic properties, and thermal management properties
- Hierarchical Carbon Cloth@NiCo2O4/NiO Hybrid: This flexible absorber exhibits high electromagnetic wave absorption capacity and is designed to address the limitations of traditional materials

Optimizing Clothing Design to Incorporate Electromagnetic Wave-Absorbing Materials:

 Neckline Design: The application of different wave-absorbing materials and usage modes at the neckline of electromagnetic shielding clothing significantly influences the shielding effectiveness of the clothing. For example, the shielding effectiveness is best when nano aluminum material is

Step 4 思维导图形成知识脉络

Scopus AI 提供独有的"思维导图"(Concept Map),帮助用户快速形成知识脉络。



Select a concept to generate a description of its relation to other concepts

可针对思维导图中的任意节点深入探索:

Linked concept path summary

Electromagnetic Wave Absorption in Clothing \Rightarrow Applications \Rightarrow Electromagnetic Shielding Effectiveness (EMSE)

Based on the query about the electromagnetic shielding effectiveness (EMSE) in clothing, the following insights can be derived from the relevant abstracts:

Applications of Wave Absorbing Materials in Clothing:

- Wave absorbing materials, such as stainless steel, carbon fiber, nano aluminum, and multi ion fabric, significantly influence the shielding effectiveness of clothing, with some combinations increasing the shielding effectiveness by more than 5 dB 1.
- The application of different wave absorbing materials and usage modes at the neckline of electromagnetic shielding clothing has a significant impact on the clothing's shielding effectiveness 1.

Step 5 新兴研究主题

通过优化的 AI 算法自动生成"持续性研究主题"、"上升性研究主题"以及"新兴研究主题",研究人员就能有效地找出"空白区域",并针对这些主题领域发表文章、进行合作和争取奖励资助机会。此外, Emerging Themes 所建议的研究假设,更是研究人员拟定或提升研究想法的绝佳起点。

Metamaterial-Based Electromagnetic Absorbers Consistent Theme

Metamaterials have consistently shown promise in the field of electromagnetic wave absorption, particularly for clothing materials. These materials, characterized by their engineered structures, offer unique properties such as broadband absorption and flexibility, making them ideal for wearable applications. The consistent interest in metamaterial absorbers highlights their potential for innovative designs in protective clothing.

Show references

Potential Hypotheses:

- Metamaterial-based clothing can provide superior electromagnetic wave absorption compared to traditional materials
- Flexible metamaterial absorbers can be integrated into everyday clothing without compromising comfort

Smart Composite Materials for Electromagnetic Absorption Rising Theme

Smart composite materials, which can adapt their properties in response to external stimuli, are gaining attention for electromagnetic wave absorption. These materials, incorporating elements like shape memory polymers and graphene, offer innovative solutions for dynamic and responsive protective clothing. The rising interest in smart composites suggests their potential for next-generation wearable technologies.

Show references

Potential Hypotheses:

- Smart composite materials can dynamically adjust their electromagnetic absorption properties based on environmental conditions
- Wearable smart composites can provide both electromagnetic protection and other functionalities, such as thermal regulation

Step 6 进阶研究, AI 建议提问

Scopus AI 基于提出的科学问题给出建议提问,扩充研究的深度与广度,洞察科学问题及 各种研究主题隐含的更多信息,凝练研究方向。也可以基于上述回答的内容,继续提出 follow up 问题。

Go deeper

→ How do conductive fabrics absorb electromagnetic waves?

⇒ What are the most effective materials for shielding electromagnetic waves in clothing?

└→ Can natural fibers be used to absorb electromagnetic waves in clothing?

Ask a follow-up question

 \uparrow

You have temporary access to Scopus AI. Note that the quality of results may vary. How it works Share feedback

使用小贴士: Scopus AI 可以通过轻松点击复制,得到问题、答案和参考文献的文本内容,直接用于撰写说明材料和添加参考文献。