

化学及相关学科 信息资源概述

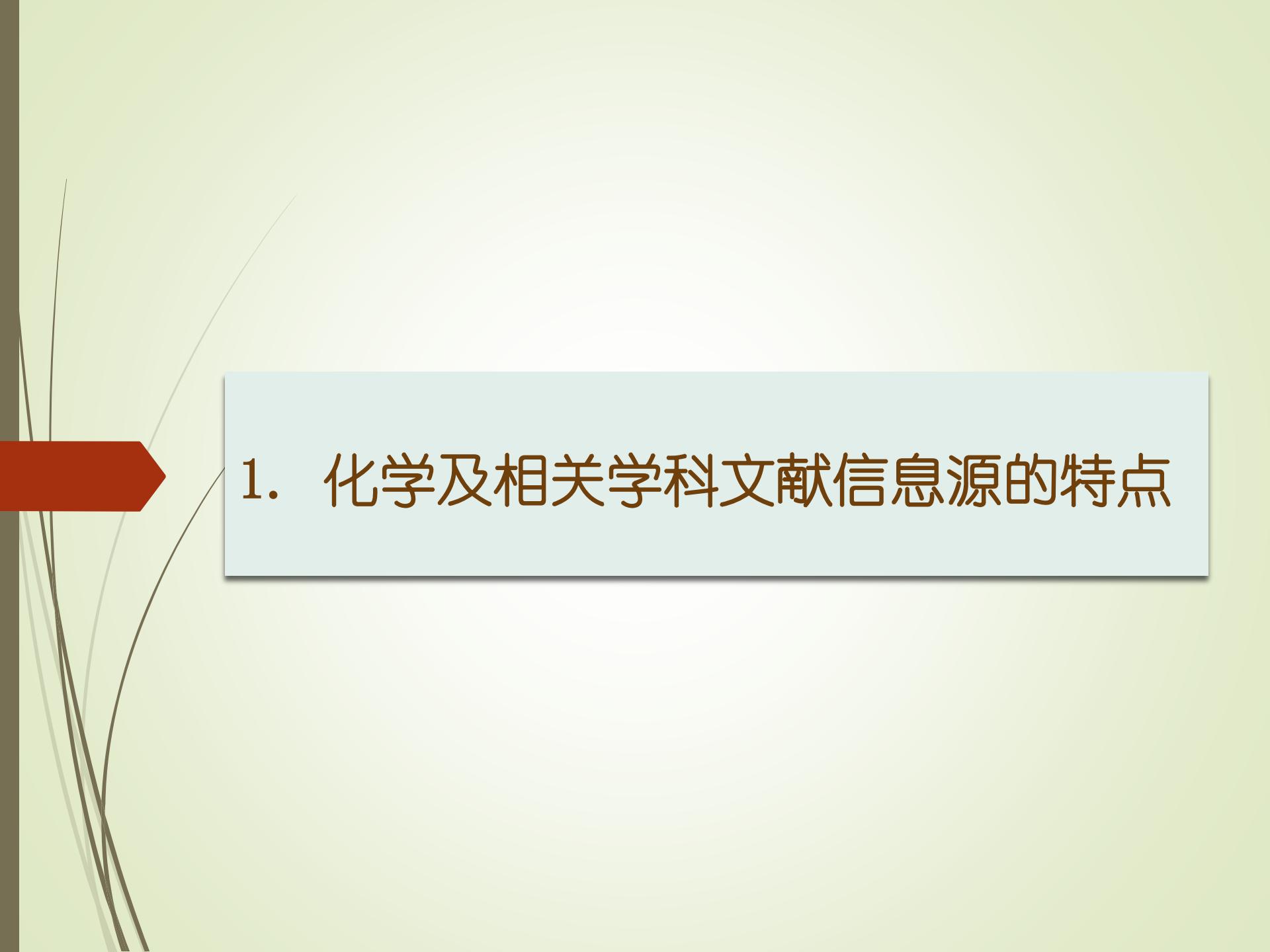
林佳 清华大学图书馆

linjia@lib.tsinghua.edu.cn



主要内容

- 化学及相关学科文献信息源的特点
- 常用专业信息源概览
- 信息资源的合理选择
- 获取全文
- 了解本学科领域高影响力期刊



1. 化学及相关学科文献信息源的特点

①记录内容包含文献基本题录信息和化学特有信息

► 题录信息（基本同其他学科信息资源）

标题、责任者、来源、文摘……

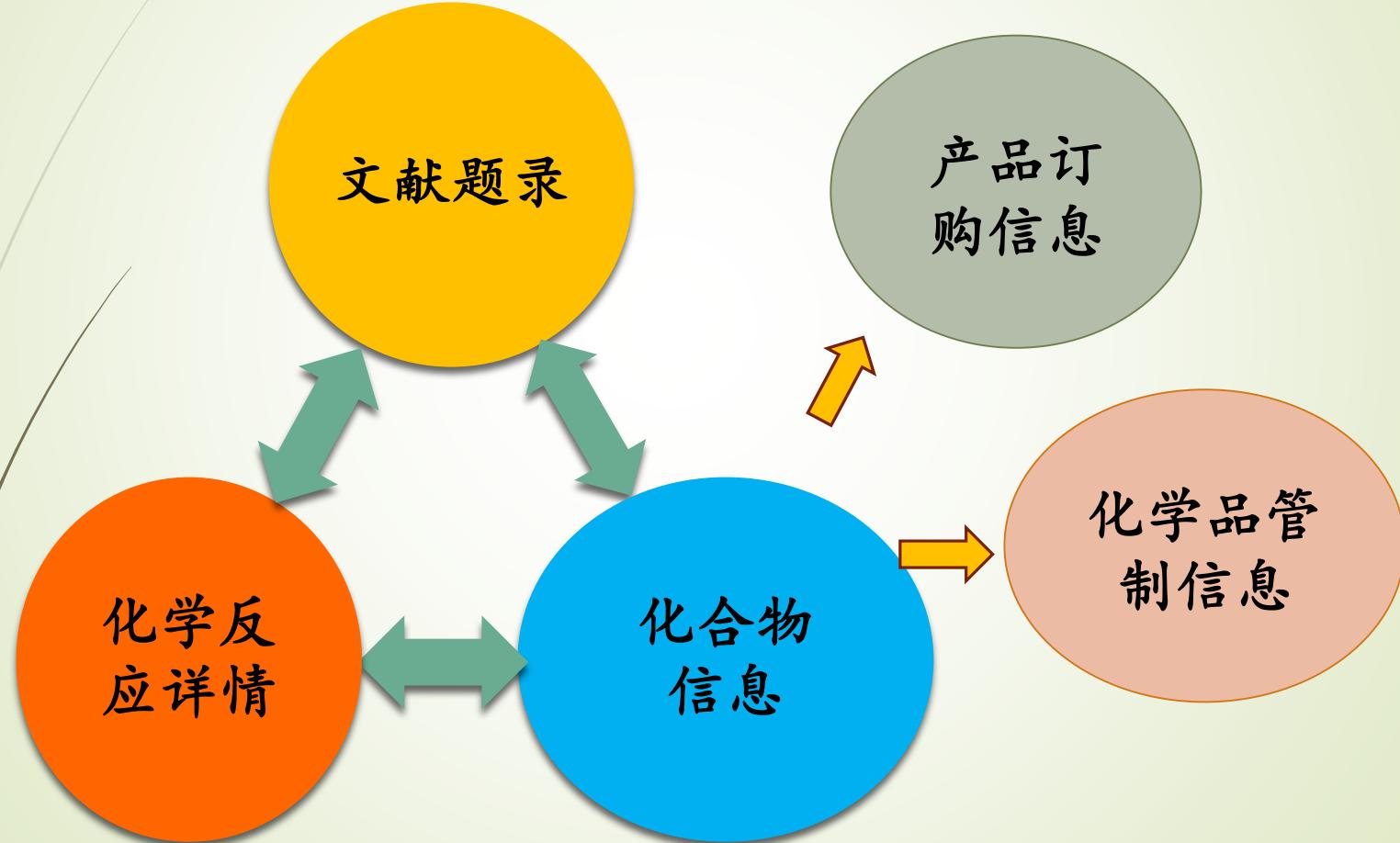
► 反应信息

反应式（步骤、条件、中间体、产率……）、反应条件……

► 化合物信息

结构式、名称（系统命名、商品名、俗名、药品名……）、代码（CASRN……）、物理、化学、药理学、生物性质、商业信息及化学品管制信息

②文献信息、化合物、反应之间无缝链接



②文献信息、化合物、反应之间无缝链接 (SciFinder应用实例)

Welcome Jia Lin | Sign Out

Add KMP Alert Research Topic "preparation of melamine" > references (224)

References Get Substances Get Reactions Get Related Tools Send to SciPlanner

224 References 0 Selected Save Print Export

Select All Deselect All Sort by: Accession Number Answers per Page [20] 1 2 3 4 5 6 ... 12 Display:

- 1. Preparation of melamine-formaldehyde microspheres and microcapsules based on poly(glutamic acid) by template method
By Zhang, Ying; Yan, Shi-Feng; Rao, Shui-Qin; Zheng, Yan-Zhen; Yin, Jing-Bo; Chen, Xue-Si
From Gaodeng Xuexiao Huaxue Xuebao (2011), 32(10), 2447-2452. Language: Chinese, Database: CAPLUS
[Substances](#) [Reactions](#) [~0 Citings](#) [Full Text](#) [Link](#) [0 Comments](#) [0 Tags](#)
- 2. Preparation of melamine/formaldehyde resin-coated melamine phosphate flame retardant microcapsules
By Wang, Zhengzhou; Xu, Shuo
From Faming Zhanli Shenqing (2011), CN 102229712 A 20111102. Language: Chinese, Database: CAPLUS
[Substances](#) [Reactions](#) [~0 Citings](#) [Full Text](#) [Link](#) [0 Comments](#) [0 Tags](#)
- 3. Energy- and cost-saving melamine production system based on gas-phase quenching method
By Tang, Yin; Yuan, Zhongwu; Gong, Yuande; Yin, Mingda; Yang, Xiuzhen; Chen, Duanyang; Yi, Jianglin; Lei, Lin; Liu, Chaohui; Li, Xuchu; et al
From Shiyong Xinxing Zhanli Shuomingshu (2011), CN 201971766 U 20110914. Language: Chinese, Database: CAPLUS
[Substances](#) [Reactions](#) [~0 Citings](#) [Full Text](#) [Link](#) [0 Comments](#) [0 Tags](#)
- 4. Preparation of melamine cyanurate flame retardant with rod-like crystal form
By Niu, Minbu; Bao, Jinyuan; Xiao, Xuewen; Dai, Changlin
From Faming Zhanli Shenqing (2011), CN 102174213 A 20110907. Language: Chinese, Database: CAPLUS
[Substances](#) [Reactions](#) [~0 Citings](#) [Full Text](#) [Link](#) [0 Comments](#) [0 Tags](#)

②文献信息、化合物、反应之间无缝链接 (SciFinder应用实例)

SciFinder®

Explore References Explore Substances Explore Reactions

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Add KMP Alert Chemical Structure exact with limiters > substances (31)

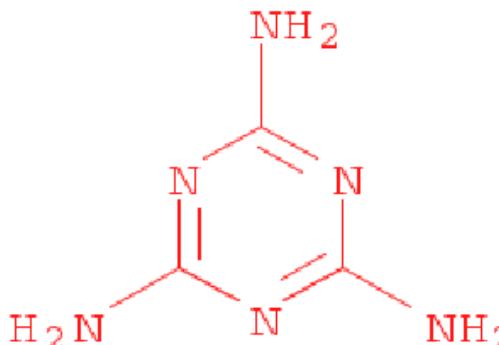
Substances Get References Get Reactions Tools Send to SciPlanner

31 Substances 0 Selected Save Print Export

Select All Deselect All Sort by: CAS Registry Number Answers per Page [50]

View:

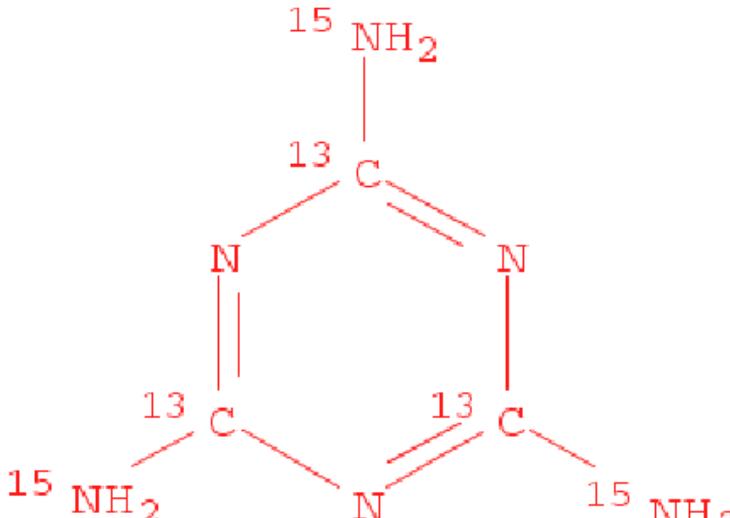
1. Substance Detail 1260170-50-0



C₃H₆N₂

~1 References Reactions

2. Substance Detail 1246816-14-7



②文献信息、化合物、反应之间无缝链接 (SciFinder应用实例)

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Add KMP Alert Research Topic "Photocyanation of aromatic com..." > references (15) > get reactions (27)

Explore References Explore Substances Explore Reactions

Reactions Get References Tools Send to SciPlanner

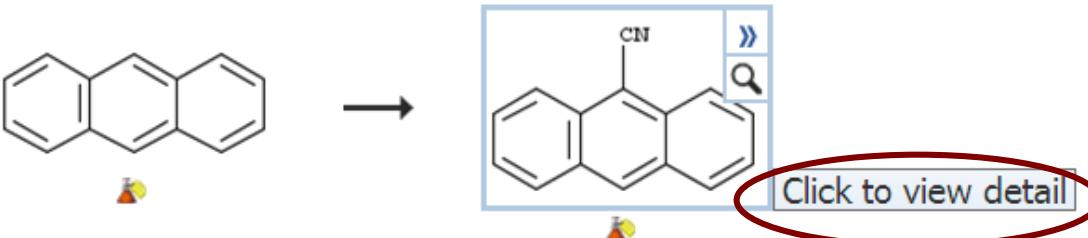
27 Reactions 0 Selected Save Print Export

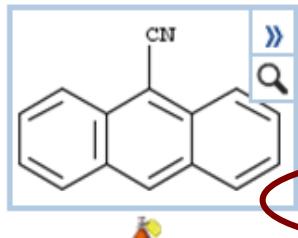
NEW Group by: No Grouping Sort by: Accession Number Answers per Page [15] 1 2

Select All Deselect All Display:

1. View Reaction Detail

2 Steps Hover over any structure for more options.





Click to view detail

Overview

Steps/Stages

1.1
2.1

Notes

Reactants: 1, Steps: 2, Stages: 2, Most stages in any one step: 1

References

Photochemical reactions of aromatic compounds. Part 34. Direct photocyanation of arenes with sodium cyanide in the presence of electron acceptors Full Text
By Yasuda, Masahide et al
From Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999), (2), 745-50; 1981

②文献信息、化合物、反应之间无缝链接 (Reaxys应用实例)

REAXYS®

Workflow of the Week #6
Reaction transformation-benzamides to benzamidines

Anonymous user (166.111.123.182)

Query Results Synthesis Plans History Report My Alerts My Settings Help Register Login ▾

Reaxys PubChem eMolecules

Query substances reactions

Create Alert

121 substances 121 reactions

Open Analysis View

121 reactions out of 221 citations

Filter by: Sub-structure Yield Record Type Reagent/Catalyst Solvent Reaction Type No. of Steps Product Availability Reactant Availability Availability in other DBs Document Type Authors Patent Assignee

Reactions Citations

Limit to Exclude Output Print Zoom in Zoom out Hide Sort by Reaxys-Ranking

go to Page Page 1 of 14

N≡NH₂ + H₂N-C(=N)-NH₂ → H₂N-C(=N)-NH-C(=N)-NH₂

Synthesize Synthesize

Rx-ID: 25330306 Find similar reactions

93% With potassium hydroxide in water; dimethyl sulfoxide Show Experimental Procedure

Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft Patent: US4069383 A1, 1978 ; Title/Abstract Full Text Show Details

H₂N-C(=N)-NH-C(=N)-NH₂

The screenshot displays the Reaxys platform's search interface and a detailed reaction record. At the top, a navigation bar includes links for Query, Results, Synthesis Plans, History, Report, My Alerts, My Settings, Help, Register, and Login. A red box highlights the 'Workflow of the Week' banner, which shows a reaction transformation from benzamides to benzamidines. Below this, a search bar has 'Reaxys' selected, with options for PubChem and eMolecules. A red oval encloses the search results section, which shows 121 substances and 121 reactions. A 'Create Alert' button is also visible. Further down, a detailed reaction record is shown for a specific citation. This record includes reaction conditions (potassium hydroxide in water; dimethyl sulfoxide), experimental yields (93%), and a link to the experimental procedure. A red circle highlights the reaction scheme, which shows the conversion of propargylamine and diaminodiazine to a bis-diaminodiazine product. Another red oval encircles the patent information at the bottom right of the record, which cites Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft and US4069383 A1 from 1978.

②文献信息、化合物、反应之间无缝链接 (Reaxys应用实例)

Query Results Synthesis Plans History Report My Alerts My Settings Help Register Login ▾

Reaxys PubChem eMolecules

Query: Nc1nc(N)nc(N)c1 (Create Alert)

1 substances → 121 reactions → 1 citations

No structure

Open Analysis View

1 citations out of 5 reactions and 4 substances

Filter by:

- Document Type
- Authors
- Patent Assignee
- Journal Title
- Publication Year

Citations Reactions Substances (Grid) Substances (Table)

Limit to Exclude Output Print Zoom in Zoom out Hide Sort by Publication Year ↘ ↗

Title of the Document	Authors	Year	Source	Times cited
Method of preparing melamine from cyanamide and/or dicyandiamide	Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft	1978	Patent: US4069383 A1, 1978 ; Patent Family: US4069383 A1; Full Text	

Yield Record Type Reagent/Catalyst Solvent Reaction Type No. of Steps

Show 9 results per page 1 citations out of 5 reactions and 4 substances go to Page Page 1 of 1

▼ Title/Abstract
▼ Front page Information
▼ Show All Reactions (5)
▼ Show All Substances (4)

③丰富实用的检索途径、检索字段和检索限定

- 书目信息（基本同其他学科信息资源）
主题、人名、来源……
- 反应信息
反应式（完整/部分）、反应条件、产率、
反应步骤……
- 化合物信息
结构式、名称、代码、物理化学性质

不同数据库有各自不同的检索字段，检索时可辅以多种限定条件

③丰富实用的检索途径、检索字段和检索限定

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REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS

- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:

Java Non-Java

Click image to change structure or view detail.

Import CXF

Search

Search Type:

- Exact Structure
- Substructure
- Similarity

Show precision analysis

SAVED ANSWER SETS

- Cefradine
- C78H138N16O16
- 10 residuals with MW bewteen 1550-1560
- markush search for YHJ
- references about 1332-77-0 103-76-4
- h1n1 influenza epidemic
- The effect of antibiotic residues on dairy product
- regioselective
- zhanglf-SFS
- concept of human immunodeficiency virus
- Autosaved Reference Set

View All | **Import**

③丰富实用的检索途径、检索字段和检索限定

Characteristics

- Single component
- Commercially available
- Included in references

Classes

- Alloys
- Coordination compounds
- Incompletely defined
- Mixtures
- Polymers
- Organics, and others not listed

Studies

- Analytical
- Biological
- Preparation
- Reactant or reagent

Solvents

▼ Select Solvents

Non-participating Functional Groups

▼ Select Groups

Number of Steps

Examples: 1, 1-3, 1-, -3

Classifications

- Biotransformation
- Catalyzed
- Chemoselective
- Combinatorial
- Electrochemical
- Gas-phase
- Non-catalyzed
- Photochemical
- Radiochemical
- Regioselective
- Stereoselective

Sources

- Any source
- Patents only
- Sources other than patents

Publication Years

Examples: 1995, 1995-1999, 1995-, -1995

化合物限定

化学反应限定



2. 常用专业信息源概览

常用专业信息源

- ▶ **SciFinder**——可检索研究进展及化学反应和化合物信息
- ▶ **Reaxys**——包含丰富的数值、事实等化学信息
- ▶ **DII之Chemicals**——专利信息数据库
- ▶ **ACS Publications** ——美国化学学会出版物
- ▶ **RSC Publishing**——英国皇家化学学会出版物
- ▶ **Knovel-**[Chemistry & Chemical Engineering](#)——交互式参考工具
- ▶ 网络免费资源
- ▶



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A CAS SOLUTION

SciFinder® is a research discovery application that provides unlimited access to the world's most comprehensive and authoritative source of references, substances and reactions in chemistry and related sciences.

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- ▶ ACS-Chemical Abstracts Service出版发行的基于网络的信息检索系统
- ▶ 及时报道最新研究动态，具有丰富的化学反应、化合物信息，商业信息，药品管制信息.....，可用题录信息、结构式、反应信息、化合物性质检索
- ▶ 需要注册个人账号（须用.....tsinghua.edu.cn邮箱，且在校园网内注册，参见
<http://www.lib.tsinghua.edu.cn/database/scifinder.htm>）
- ▶ 访问入口：<https://scifinder.cas.org>



统一平台上的多个数据库

- ▶ **CAPLUS** (reference)
- ▶ **MEDLINE** (reference)
- ▶ **REGISTRY** (substance)
- ▶ **CASREACT** (reaction)
- ▶ **CHEMLIST** (regulated chemicals)
- ▶ **CHEMCATS** (Chemical Suppliers)
- ▶ **MARPAT** (patents by Markush structure)

检索模式和检索途径

根据已有线索和检索目的选择模式和途径

检索模式	检索途径	对象数据库	记录内容
References (查找文献)	Research Topic	Cplus MEDLINE	<ul style="list-style-type: none"> ● 文献标题 ● 著者、编者、发明人 ● 机构名称、专利受让人 ● 出版年 ● 来源、出版物名称、出版时间、出版者、卷、期、页码、CODEN 码和 ISSN ● 专利标识，包括专利授权、申请、优先权、以及专利族信息 ● 文摘 ● 索引标题及补充术语 ● 引文 ● 原文中涉及的化合物、序列和反应
	Author Name		
	Company Name		
	Document		
	Identifier		
	Journal		
	Patent		
	Tags		

检索模式	检索途径	对象数据库	记录内容
Substances (查化合物)	Chemical Structure	REGISTRY	<ul style="list-style-type: none"> ● 化学名称 ● CAS 登记号 ● 分子式 ● 结构图示 ● 序列信息，包括 GenBank® 和专利文献中的注解 ● 数据性质，包括光谱谱图 ● 商业来源信息 ● 化学品管制信息 ● 编者注解 ● 涉及对象化合物的文献信息 ● 对象化合物参与的化学反应信息
	Molecular Formula		
	Markush		
	Property		
	Identifier		
Reactions (查反应)	Reaction Structure	CASREACT	<ul style="list-style-type: none"> ● 反应图示，包括反应物、产物、试剂、催化剂、溶剂、以及反应步骤 ● 涉及对象反应的文献信息 ● 参与反应的所有化合物信息，包括化学品管制信息、商业来源信息等

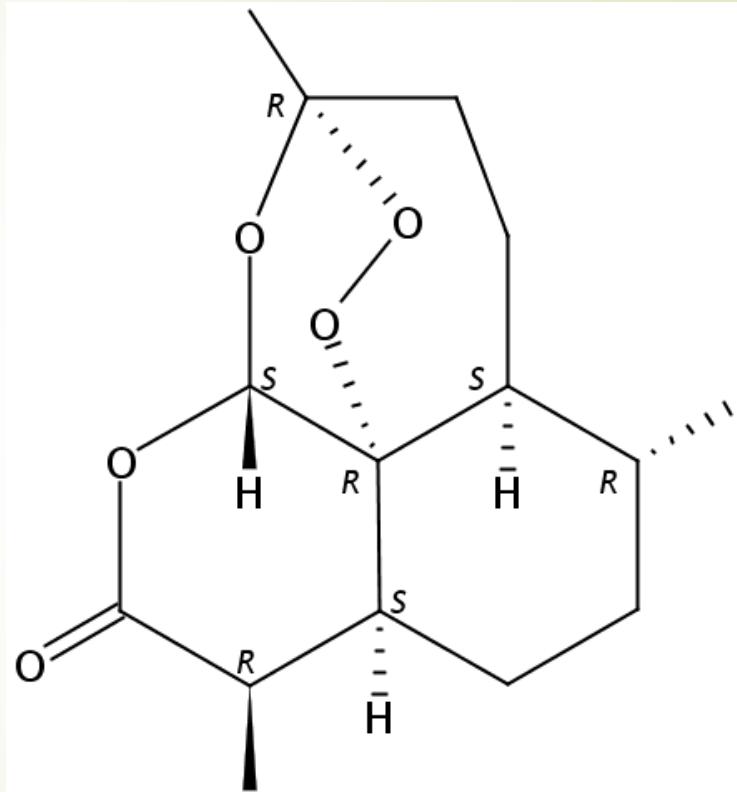
检索实例

2015生理或医学诺奖

屠呦呦

青蒿素

疟疾



关于青蒿素制备的文献

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Substance Identifier "qinghaosu" > substances (1)

[Get References](#)[Get Reactions](#)[Get Commercial Sources](#)[Tools ▾](#)[Create Keep Me Posted Alert](#)[Send to SciPlanner](#)[Analyze](#)[Refine](#)Sort by: CAS Registry Number [Display Options](#)Analyze by: 

Substance Role

Analytical Study 1

Biological Study 1

Formation,
Nonpreparative 1

Miscellaneous 1

Occurrence 1

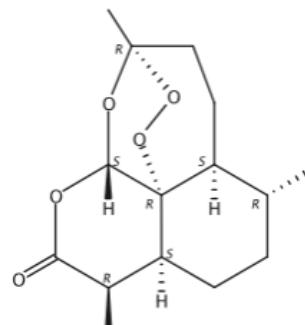
Preparation 1

Process 1

Properties 1

Prophetic in Patents 1

Reactant or Reagent 1

[Show More](#) 0 of 1 Substance Selected 1. 63968-64-9  ~4094  ~165 [Quick View](#)

Absolute stereochemistry.

C₁₅H₂₂O₅

3,12-Epoxy-12H-pyran[4,3-j]-1,2-benzodioxepin-10(3H)-one, octahydro-3,6,9-trimethyl-, (3R,5aS,6R,8aS,9R,12S,12aR)-

► Key Physical Properties[Regulatory Information](#)[Spectra](#)[Experimental Properties](#)

Get References

Retrieve references for:

- All substances
- Selected substances

Limit results to:

- Adverse Effect, including toxicity
- Analytical Study
- Biological Study
- Combinatorial Study
- Crystal Structure
- Formation, nonpreparative
- Miscellaneous
- Occurrence
- Preparation
- Process
- Properties
- Prophetic in Patents
- Reactant or Reagent
- Spectral Properties
- Uses

For each sequence, retrieve:

- Additional related references, e.g., activity studies, disease studies.

Get

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SciPlanner

Save

Print

Export

Substance Identifier "qinghaosu" > substances (1) > get references (6830)

REFERENCES ?

Get Substances

Get Reactions

Get Related Citations

Tools ▾

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Analyze Refine Categorize

Sort by: Accession Number ▾



Display Options

0 of 6830 References Selected

Page: 1 of 342

Analyze by: ?

Author Name ▾

White Nicholas J	97
Tang Kexuan	74
Posner Gary H	73
Dondorp Arjen M	64
Nosten Francois	59
Haynes Richard K	57
Avery Mitchell A	51
Meunier Bernard	49
O'Neill Paul M	45
Robert Anne	43

Show More

1. Chinese medicine product for treatment of goose teniasis and preparation method thereof

Quick View PATENTPAK ▾

By Wang, Yanlin; Wang, Yanbao; Gao, Yue

From Faming Zhusuan Shengqing (2017), CN 107137620 A 20170908. | Language: Chinese, Database: CAPLUS

The title Chinese medicine product comprises (by wt. parts): Coptis chinensis root 25-45, Phorbitis nil seed 25-50, artemisinin 40-60, Eucalyptus robusta 10-25, Phragmites communis root 10-20, Areca catechu 15-25, Omphalia lapidescens 5-10, Ligusticum chuanxiong 5-12, Gleditsia sinensis 4-9, Zanthoxylum schinifolium 5-9, Morus alba leaf 2-5, chopped garlic 6-9, and pumpkin 8-11. The present invention is made up of pure natural Chinese herbal medicines, has advantages of low price, no side effect, no drug residue, and scientific compatibility, has effects of killing insect, eliminating stagnat...

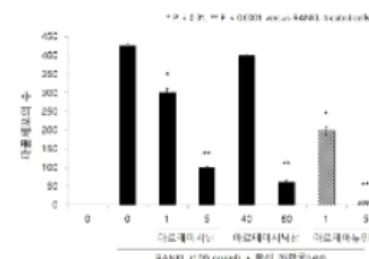
2. Pharmaceutical composition including artemisinin B as active ingredient for preventing and treating bone disease

Quick View PATENTPAK ▾

By Jung, Won Yun; Park, Gwang Gyun; Lee, Seon Gyeong; Kim, Hyeong Geun

From Repub. Korea (2017), KR 1770523 B1 20170823. | Language: Korean, Database: CAPLUS

The present invention relates to a pharmaceutical compn. including artemisinin B as an active ingredient for preventing and treating bone disease. The pharmaceutical compns. including the artemisinin B of the present invention has less side effects and toxicity, since it exhibits a remarkable effect of inhibiting osteoclast formation than artemisinin, another major component of mushroom, it is expected to be widely used in medicine.



3. Treatment for protozoa borne illness by tinidazole dissolving biofilm in combination with anti-protozoal such as coartem, atovaquone and mefloquine, and Artemisia deriv.

Quick View PATENTPAK ▾

Get Reactions

Retrieve reactions for:

- All substances
- Selected substances

Limit results by reaction role:

- Product
- Reactant
- Reagent
- Reactant or reagent
- Catalyst
- Solvent
- Any role

Get

Cancel

REACTIONS ?

Analyze **Refine**

Get References Tools ▾

Group by: No Grouping Sort by: Accession Number ▼ ▼

Display Options

Analyze by: ? Reagent ▼

O ₂	304
H ₂ O ₂	291
HCl	144
Et ₃ N	140
NaOH	128
NaIO ₄	125
NaHCO ₃	95
PhI(OAc) ₂	70
NaH ₂ PO ₄	67
C ₅ H ₅ N	66

Show More

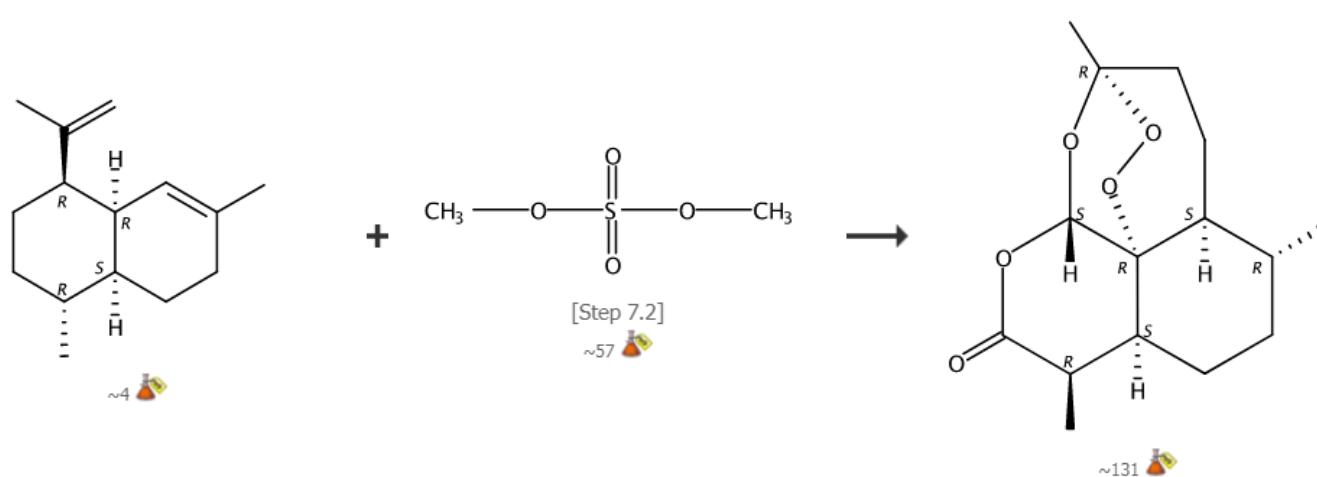
Send to SciPlanner

0 of 540 Reactions Selected

Page: 1 of 36

1. View Reaction Detail Link

8 Steps Hover over any structure for more options.



▼ Overview

Steps/Stages

- 1.1 C:HCO₂H, 25°C → 30°C
- 1.2 R:H₂O₂, S:H₂O, 12 h, 30°C; 25 h, 30-34°C; 34°C → 10°C
- 1.3 R:NaOH, S:H₂O, 5-10°C, pH 7-8
- 2.1 R:Isocyanuric chloride, S:Cyclohexane, 30 min, 25-30°C; 6-7 h, 25-30°C; 30°C → -5°C; 1 h, -5°C
- 3.1 R:K₂HPO₄, R:KBr, S:DMSO, 25°C → 85°C; 40-45 h, 80-85°C
- 3.2 S:H₂O
- 4.1 R:H₂NSO₃H, R:NaOClO, S:H₂O, S:Me₂CHOH, 3.5 h, 0-5°C, pH 3.7; 1 h, 0-5°C

Notes

- 1) optimization study, optimized on solvent, optimized on catalyst, optimized on reagent, optimized on temperature, regioselective, 2) optimization study, optimized on reagent, optimized on solvent, optimized on temperature, 3) optimization study, optimized on base, optimized on reagent, optimized on solvent, optimized on temperature, 5) stereoselective, 8) Indion resin used (stage 3), Reactants: 2, Reagents: 14, Catalysts: 2, Solvents: 8, Steps: 8, Stages: 21, Most stages in any one step: 4

References

检索方法 (Research Topic)



Welcome Lin Jia

Explore ▾

Saved Searches ▾

SciPlanner

Research Topic "preparation of artemisinin"

REFERENCES

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

SUBSTANCES

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS

- Reaction Structure

REFERENCES: RESEARCH TOPIC ?

preparation of artemisinin

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

Advanced Search

Always Show

Publication Years

Examples: 1995, 1995-1999, 1995-, -1995

Document Types

- | | |
|---|-------------------------------------|
| <input type="checkbox"/> Biography | <input type="checkbox"/> Historical |
| <input type="checkbox"/> Book | <input type="checkbox"/> Journal |
| <input type="checkbox"/> Clinical Trial | <input type="checkbox"/> Letter |
| <input type="checkbox"/> Commentary | <input type="checkbox"/> Patent |
| <input type="checkbox"/> Conference | <input type="checkbox"/> Preprint |
| <input type="checkbox"/> Dissertation | <input type="checkbox"/> Report |
| <input type="checkbox"/> Editorial | <input type="checkbox"/> Review |

Languages

- | | |
|----------------------------------|-----------------------------------|
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Japanese |
| <input type="checkbox"/> English | <input type="checkbox"/> Polish |
| <input type="checkbox"/> French | <input type="checkbox"/> Russian |
| <input type="checkbox"/> German | <input type="checkbox"/> Spanish |
| <input type="checkbox"/> Italian | |

Author

Last Name *

First

Middle

Company

Examples:

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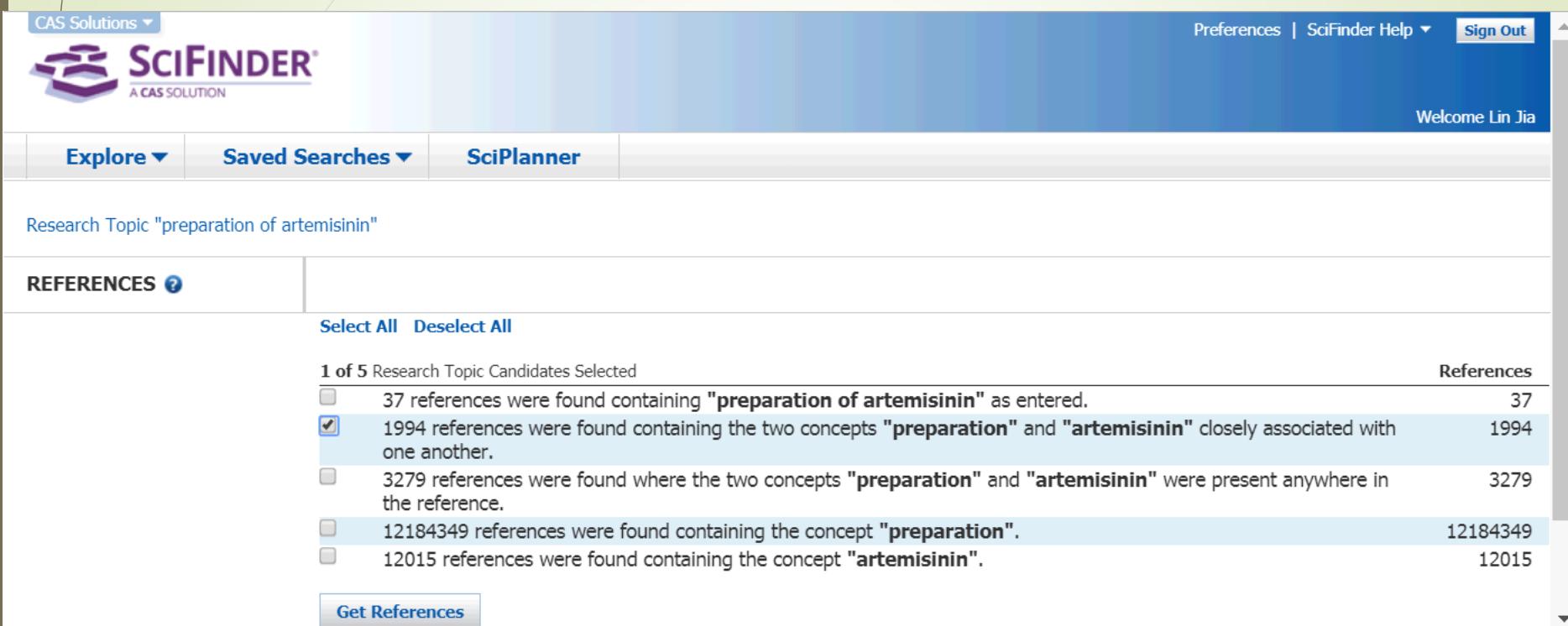
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检索方法 (Research Topic)



The screenshot shows the SciFinder interface with a search query for "preparation of artemisinin". The top navigation bar includes links for CAS Solutions, Preferences, SciFinder Help, and Sign Out, along with a welcome message for Lin Jia. The main menu offers options to Explore, Saved Searches, and SciPlanner. Below the menu, the search results are displayed under the heading "REFERENCES". A summary indicates 1 of 5 Research Topic Candidates Selected. Five search results are listed, each with a checkbox, a brief description, and a reference count:

	References
<input type="checkbox"/> 37 references were found containing "preparation of artemisinin" as entered.	37
<input checked="" type="checkbox"/> 1994 references were found containing the two concepts "preparation" and "artemisinin" closely associated with one another.	1994
<input type="checkbox"/> 3279 references were found where the two concepts "preparation" and "artemisinin" were present anywhere in the reference.	3279
<input type="checkbox"/> 12184349 references were found containing the concept "preparation".	12184349
<input type="checkbox"/> 12015 references were found containing the concept "artemisinin".	12015

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37. The interaction of heme with plakortin and a synthetic endoperoxide analogue: new insights into the heme-activated antimarial mechanism

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By Persico, Marco; Fattorusso, Roberto; Taglialatela-Scafati, Orazio; Chianese, Giuseppina; de Paola, Ivan; Zaccaro, Laura; Rondinelli, Francesca; Lombardo, Marco; Quintavalla, Arianna; Trombini, Claudio; et al
From Scientific Reports (2017), 7, 45485. | Language: English, Database: CAPLUS



~0

In the present work we performed a combined exptl. and computational study on the interaction of the natural antimalarial endoperoxide plakortin and its **synthetic** analog 4a with heme. Obtained results indicate that the studied compds. produce reactive carbon radical species after being reductively activated by heme. In particular, similarly to **artemisinin**, the formation of radicals prone to inter-mol. reactions should represent the key event responsible for *Plasmodium* death. To our knowledge this is the first exptl. investigation on the reductive activation of simple antimalarial endoperoxi...

38. Synthesis of Qinghaosu Analogues from Dihydroqinghao Aldehyde: A Dark Singlet Oxygen Approach

[Quick View](#) [Other Sources](#)

By Liu, Xunshen; Chen, Huijun; Xu, Zejun; Wu, Yikang; Liu, Bo
From Chinese Journal of Chemistry (2017), 35(4), 465-476. | Language: English, Database: CAPLUS



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A range of **qinghaosu** (**artemisinin**) analogs were **synthesized** from modified dihydroqinghao acid/aldehyde using dark singlet oxygen to trigger off the key step of the trioxane formation. The newly accessed 1,2,4-trioxanes featured a side chain extended from the carbon corresponding to the lactone carbonyl group of **qinghaosu** through a stable carbon-carbon single bond instead of an acetal oxygen-carbon bond in most similar analogs in the literature. Biotin and various amines were also connected to the **qinghaosu** core, resp., through such a linear tether in efforts to develop hybrids and potentiall...

39. Cancer combination therapies with artemisinin-type drugs

[Quick View](#) [Other Sources](#)

By Efferth, Thomas
From Biochemical Pharmacology (Amsterdam, Netherlands) (2017), 139, 56-70. | Language: English, Database: CAPLUS



~0

Artemisia annua L. is a Chinese medicinal plant, which is used throughout Asia and Africa as tea or press juice to treat malaria. The bioactivity of its chem. constituent, **artemisinin** is, however, much broader. We and others found that **artemisinin** and its derivs. also exert profound activity against tumor cells in vitro and in vivo. Should **artemisinin**-type drugs be applied routinely in clin. oncol. in the future, then it should probably be as part of combination therapy regimens rather than as monotherapy. In the present review, I give a comprehensive overview on synergistic and additive e...

40. AaMYB1 and its orthologue AtMYB61 affect terpene metabolism and trichome development in *Artemisia annua* and *Arabidopsis thaliana*

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Yong, Ke; Tang, Xuetan; Zhou, Lin; et al



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检索方法 (Research Topic)

entering a phrase or sentence in English

- ◆ Specify several concepts using plain English.
- ◆ Include prepositions and articles to connect the concepts.
- ◆ Place acronyms or synonyms in parentheses after the synonymous concept.
- ◆ Use "not" or "except" to exclude a particular term.

Note: SciFinder automatically searches related terms and considers alternate spellings and word endings when retrieving results.

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- *intramolecular hydroamination of aminoalkenes*
- *reaction kinetics of oxyphosphoranes with alcohols*
- *I am interested in the milk production of cows*
(检索时系统自动匹配`bovines/calf/cattle`)
- *human immunodeficiency virus*
(检索时系统自动匹配`HIV`)

检索方法 (Research Topic) ——实例

- 关于青蒿素制备方法

preparation of artemisinin

- 关于“鸡蛋中大环内酯类抗生素残余物分析”的研究

Analyses of macrolide antibiotic residues in eggs

- 关于“禽流感病毒”的研究

bird flu virus



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<input type="checkbox"/>	17 references were found where all of the concepts " Analyses ", " macrolide antibiotic residues " and " eggs " were present anywhere in the reference.	17
<input type="checkbox"/>	98 references were found containing the two concepts " Analyses " and " macrolide antibiotic residues " closely associated with one another.	98
<input type="checkbox"/>	175 references were found where the two concepts " Analyses " and " macrolide antibiotic residues " were present anywhere in the reference.	175
<input type="checkbox"/>	28638 references were found containing the two concepts " Analyses " and " eggs " closely associated with one another.	28638
<input type="checkbox"/>	107627 references were found where the two concepts " Analyses " and " eggs " were present anywhere in the reference.	107627
<input type="checkbox"/>	14 references were found containing the two concepts " macrolide antibiotic residues " and " eggs " closely associated with one another.	14
<input type="checkbox"/>	18 references were found where the two concepts " macrolide antibiotic residues " and " eggs " were present anywhere in the reference.	18
<input type="checkbox"/>	17771737 references were found containing the concept " Analyses ".	17771737
<input type="checkbox"/>	227 references were found containing the concept " macrolide antibiotic residues ".	227
<input type="checkbox"/>	329979 references were found containing the concept " eggs ".	329979

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bird flu virus

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1. The mask and the graft polymer extract [machine translation]

By Tsutsumi, Kazuhiro

From Jpn. Kokai Tokkyo Koho (2009), JP 2009225930 A 20091008. Language: Japanese, Database: CAPLUS [Machine Translation of Descriptors]. The mask which carries out inactivation of inactivation of the **bird influenza virus**, the cat, the dog, and the human Calicivirus and inactivation of the Norovirus is provided. It wears in the face part, and it is the mask which carries out inactivation of inactivation of the at least **bird influenza virus**, the cat, the dog, and the human Calicivirus, and inactivation of the Norovirus, and the mask base material 2 formed with the cellulose nonwoven fabric is equipped. The water ext. of graft cellulose with which the sulfonic group or the amino group was b...

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2. Development of a diagnostic test system on the basis of sandwich ELISA for the detection of avian influenza A virus

By Zhemaeva, L. V.; Kozlov, A. Yu.; Yamnikova, S. S.; Kal'nov, S. L.; Verkhovskii, O. A.; Aliper, T. I.

From Voprosy Virusologii (2009), 54(4), 45-49. Language: Russian, Database: CAPLUS

A panel of hybridomas producing monoclonal antibodies (MAbs) to nucleocapsid protein (NP) of **avian influenza A virus** was obtained. On the basis of 2 MAbs, the authors designed an antigen-bound ELISA (sandwich ELISA), in which NP3 MAbs were used as antigen-bound antibodies and NP MAbs conjugated with horse radish peroxidase as antigen detection antibodies. The specificity of the test system to **avian influenza virus** was detd. The developed test system was ascertained to specifically detect **influenza A virus** of all study subtypes and to yield no cross reactions with other tested **virus** pathogen...

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3. Phosphoantigen-expanded human γδT cells display potent cytotoxicity against monocyte derived macrophages infected with human and **avian influenza viruses**

By Qin, Cenqiu; Mao, Huaichu; Zhang, Jian; Cao, Cui; Guo, Lin; Wang, Qiang; Chen, Ding; Huang, Liwei; Li, Tian; Peng, Li; Mo, Li

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ating and treating bone disease

armaceutical compn. including artemisinin B as an ating bone disease. The pharmaceutical compns. nt invention has less side effects and toxicity, since Bing osteoclast formation than artemisinin, another pected to be widely used in medicine.

3. Treatment for protozoa borne illness by tinidazole dissolving biofilm in combination with anti-protozoal such as coartem, atovaquone and mefloquine, and Artemisia derk.

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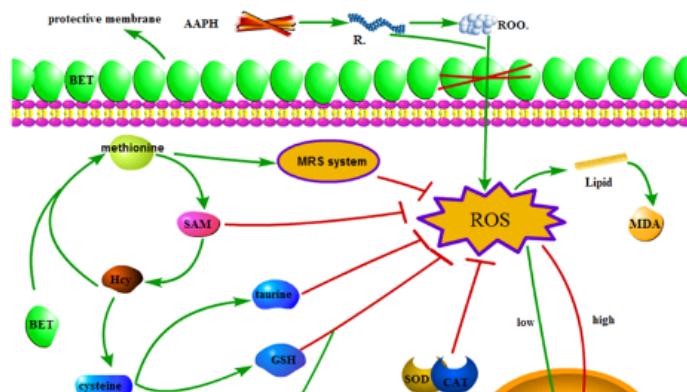
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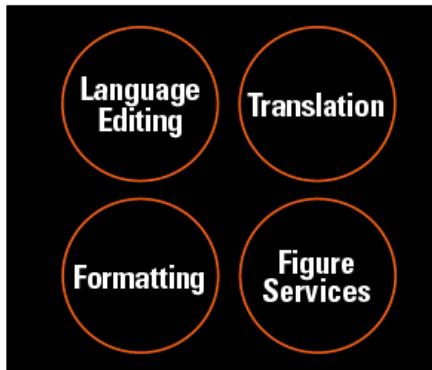
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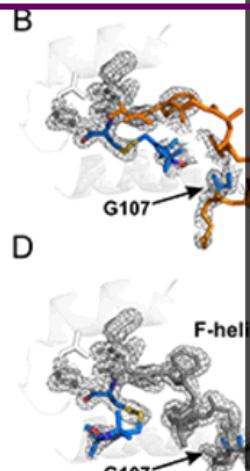
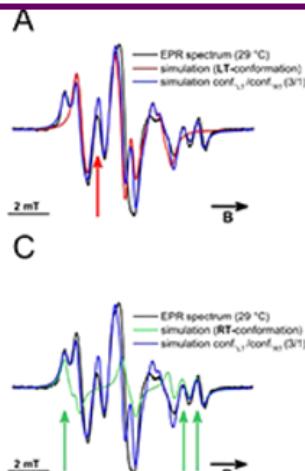
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Observation of Quantum Confinement in Monodisperse Methylammonium Lead Halide Perovskite Nanocrystals Embedded in Mesoporous Silica

Victor Malgras, Satoshi Tominaka, James W. Ryan, Joel Henzie, Toshiaki Takei, Koji Ohara, and Yusuke Yamauchi

Publication Date (Web): September 25, 2016 (Article)

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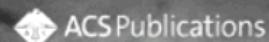
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Observation of Quantum Confinement in Monodisperse Methylammonium Lead Halide Perovskite Nanocrystals in Mesoporous Silica

Victor Malgras,[†] Satoshi Tominaka,[†] James W. Ryan,[‡] Joel Henzie,[†] Tomohiro Yamada,[†] and Yusuke Yamauchi^{†,*†}

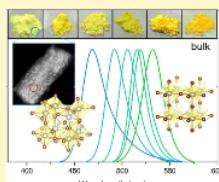
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[‡]International Center for Young Scientists (ICYS), National Institute for Materials Science, 305-0044, Japan

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Supporting Information

ABSTRACT: Hybrid organic–inorganic metal halide perovskites have fascinating electronic properties and have already been implemented in various devices. Although the behavior of bulk metal halide perovskites has been widely studied, the properties of perovskite nanocrystals are less well-understood because synthesizing them is still very challenging, in part because of stability. Here we demonstrate a simple and versatile method to grow monodisperse $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite nanocrystals inside mesoporous silica templates. The size of the nanocrystal is governed by the pore size of the templates (3.3, 3.7, 4.2, 6.2, and 7.1 nm). In-depth structural analysis shows that the nanocrystals maintain the perovskite crystal structure, but it is slightly distorted. Quantum confinement was observed by tuning the size of the particles via the template. This approach provides an additional route to tune the optical bandgap of the nanocrystal. The level of quantum confinement was modeled taking into account the dimensions of the rod-shaped nanocrystals and their close packing inside the channels of the template. Photoluminescence measurements on $\text{CH}_3\text{NH}_3\text{PbBr}$ clearly show a shift from green to blue as the pore size is decreased. Synthesizing perovskite nanostructures in templates improves their stability and enables tunable electronic properties via quantum confinement. These structures may be useful as reference materials for comparison with other perovskites, or as functional materials in all solid-state light-emitting diodes.



INTRODUCTION

Hybrid organic–inorganic metal halide perovskites exhibit unusual electronic, optical, and crystallographic properties enabling high mobilities^{1,2} and long diffusion lengths.^{3,4} They are promising candidates for photovoltaic applications and have rapidly achieved outstanding performances.^{5–8} The chemical structure obeys the AM_xX_3 stoichiometry, where A is the organic cation, M is the metal cation (e.g., Pb^{2+} , Sn^{2+}), and X is the halide anion (e.g., Cl^- , Br^- , I^-). The optical bandgap can be tuned by selecting the appropriate A and X components: methylammonium and bromide lead to wider bandgaps than

their size or surface chemistry is useful for various light-emitting applications (e.g., LEDs, lasers). In addition, quantum confinement offers a different angle from which the electronic properties can be studied and manipulated. Many semiconductor nanocrystals display interesting behavior when their radius is less than the exciton Bohr radius, such as bandgap expansion, increased Coulombic attraction of the paired charges, energy level quantization, and slower electron–phonon relaxation.^{12–15}

Research on $\text{CH}_3\text{NH}_3\text{PbX}_3$ nanocrystals has been primarily limited to colloidal nanoplatelets^{16–19} and nanoparticles,^{20–23} through core precipitation or seeding methods, as well as

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Chemistry & Chemical Engineering

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[22nd Annual Conference of the German Crystallographic Society, March 2014, Berlin, Germany](#)

(De Gruyter, 2014)

[23rd Annual Conference of the German Crystallographic Society, March 16-19, 2015, Göttingen, Germany](#)

(De Gruyter, 2015)

[A Manual for the Chemical Analysis of Metals: \(MNL 25\)](#)

(ASTM International, 1996)

[AC Impedance Spectroscopy Measurement - Understanding the Effects of 2-, 3-, and 4-Electrode Cells and Cables on Experimental Data](#)

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Related Structures, BioAssays, BioSystems, Literature, Other Links

MELAMINE; Cyanurotriamide; Cyanurotriamine ...
IUPAC: 1,3,5-triazine-2,4,6-triamine
MW: 126.119940 g/mol | MF: C₃H₆N₆
Tested in BioAssays: All: 19, Active: 2; BioActivity Analysis

Selected Compounds Compound Count

BioActivity Experiments

	Count
BioAssays, Active	8
BioAssays, Tested	23
Protein 3D Structures	2
Reduced (Cu+) Peptidylglycine Alpha-Hydroxylating...	1

BioMedical Annotation

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http://www.ncbi.nlm.nih.gov/guide/chemicals-bioassays/#databases_

Cymel 481 resin; Methylated melamine, formaldehyde polymer; Formaldehyde, melamine polymer, methylated ...
IUPAC: formaldehyde; 1,3,5-triazine-2,4,6-triamine
MW: 156.145920 g/mol | MF: C₄H₈N₆O

Related Structures, BioAssays

Cilag; Glazamine M; Resloom HP ...
IUPAC: [[4,6-bis(hydroxymethylamino)-1,3,5-triazin-2-yl]amino]methanol
MW: 216.197880 g/mol | MF: C₆H₁₂N₆O₃

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CAplus @ SciFinder	1907 —	多出版类型		世界上最大的关于化学及其相关学科的文献数据库, 记录来源于期刊、专利、会议录、图书、学位论文、技术报告等多种类型的出版物。... [更多]	more
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CASREACT @ SciFinder	1840 —	图文		收录6千多万个一步或多步反应信息。... [更多]	more
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研究热点

学科 - 计算机, Computer Science and Engineering

Algorithms, Algorithms-Analysis, Artificial Intelligence, Semiconductor industry, Complementary metal oxide semiconductors

Year	Algorithms	Algorithms-Analysis	Artificial Intelligence	Semiconductor industry	Complementary metal oxide semiconductors
2005	50	50	50	50	50
2006	100	100	50	50	50
2007	150	150	50	50	50
2008	250	200	100	50	50
2009	300	200	100	50	50
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By: Pellissier, Helene

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2143-2173, Journal; General Review, 2006, CODEN:
TETRAB, ISSN: 0040-4020
DOI: 10.1016/j.tet.2005.10.041

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