

SciFinder Web

源于化学，超越化学的一站式检索平台

SciFinder Web 培训

CAS北京代表处
培训专员

李虹

Mail:Della@igroup.com.cn

Tel:010-82335058-807



A division of the American Chemical Society

20131101

www.cas.org

提纲

- 介绍

- SciFinder Web内容

- **SciFinder Web中的检索**

- SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索

- **SciFinder Web的注册和常见问题**

美国化学文摘社—Chemical Abstract Service

- ACS的分支机构，创立于1907年
- 致力于跟踪、索引并提炼全球化学相关的科技文献信息
- 最先创立了纸本《化学文摘》
Chemical Abstracts TM
- 总部位于俄亥俄州的哥伦布市



- 1300名员工，精通50多种语言。
- 关注索引上万种期刊和63家专利
- 客户覆盖全球1900所高校、500强公司以及所有主要的专利局。

SciFinder Web中的几个主要数据库

CAS REGISTRYSM

>7300万有机无机物质

>6400生物序列

每天更新约12000新物质

物质报道文献，回溯到1802年

物质信息包含了大量的实验数据，预测数据，以及物质标签和谱图

CASREACT[®]

>6700万单步和多步反应

>1400万物质合成制备信息

源自专利和期刊文献

每天更新

反应回溯到1840年

CAS Databases

CAplusSM

>3800万专利和期刊信息

>10000种期刊的覆盖

63个专利发行机构

每天更新3000条记录

文献回溯到19世纪初

引文信息回溯到1997年之前，超过3亿条引文信息

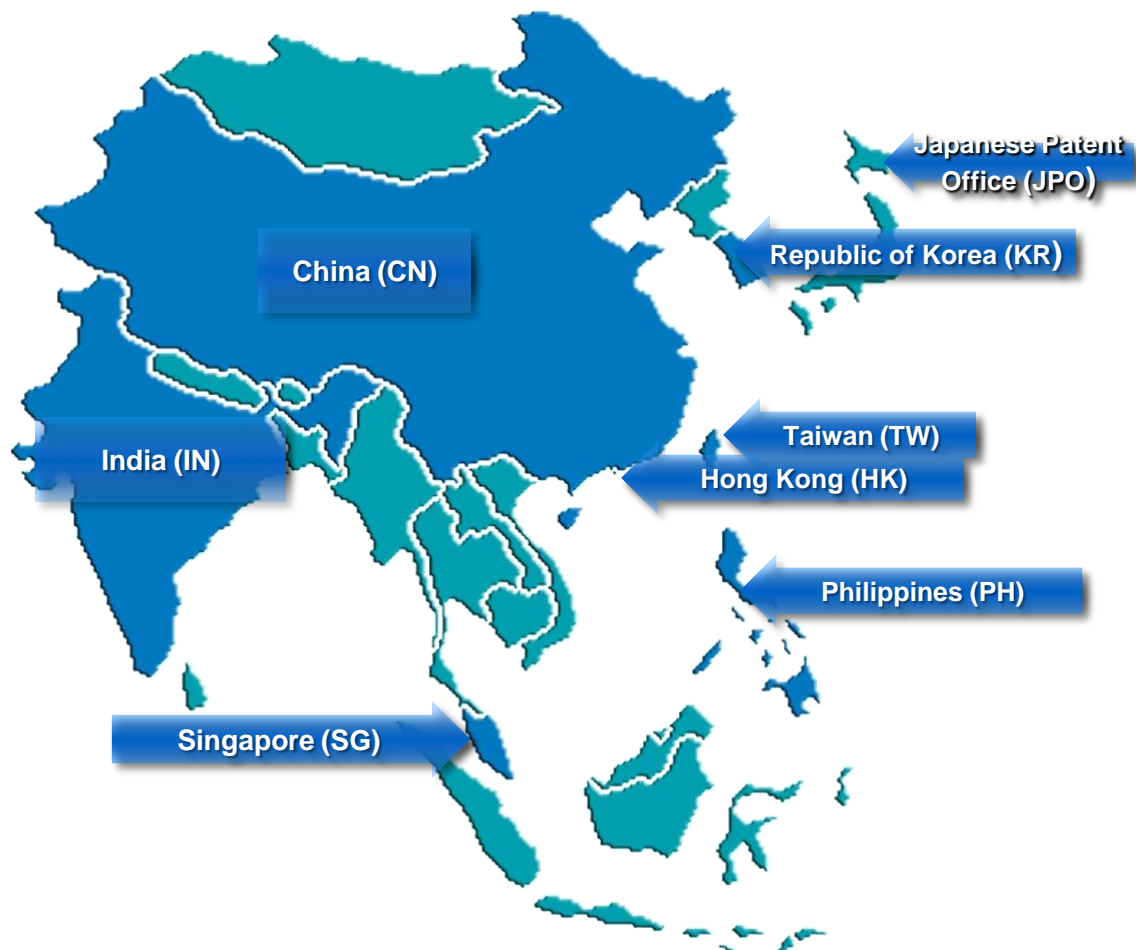
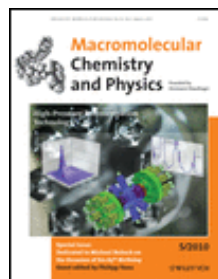
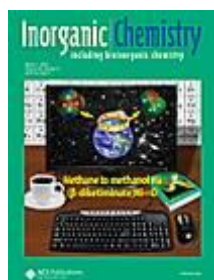
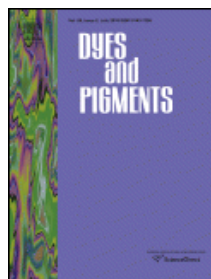
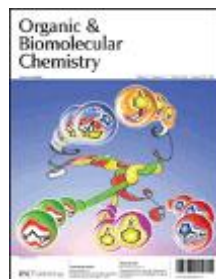
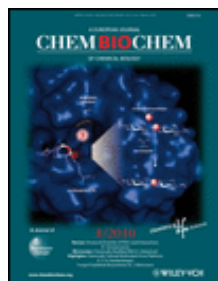
MARPART[®]

>99.6万专利中的有机，有机金属结构

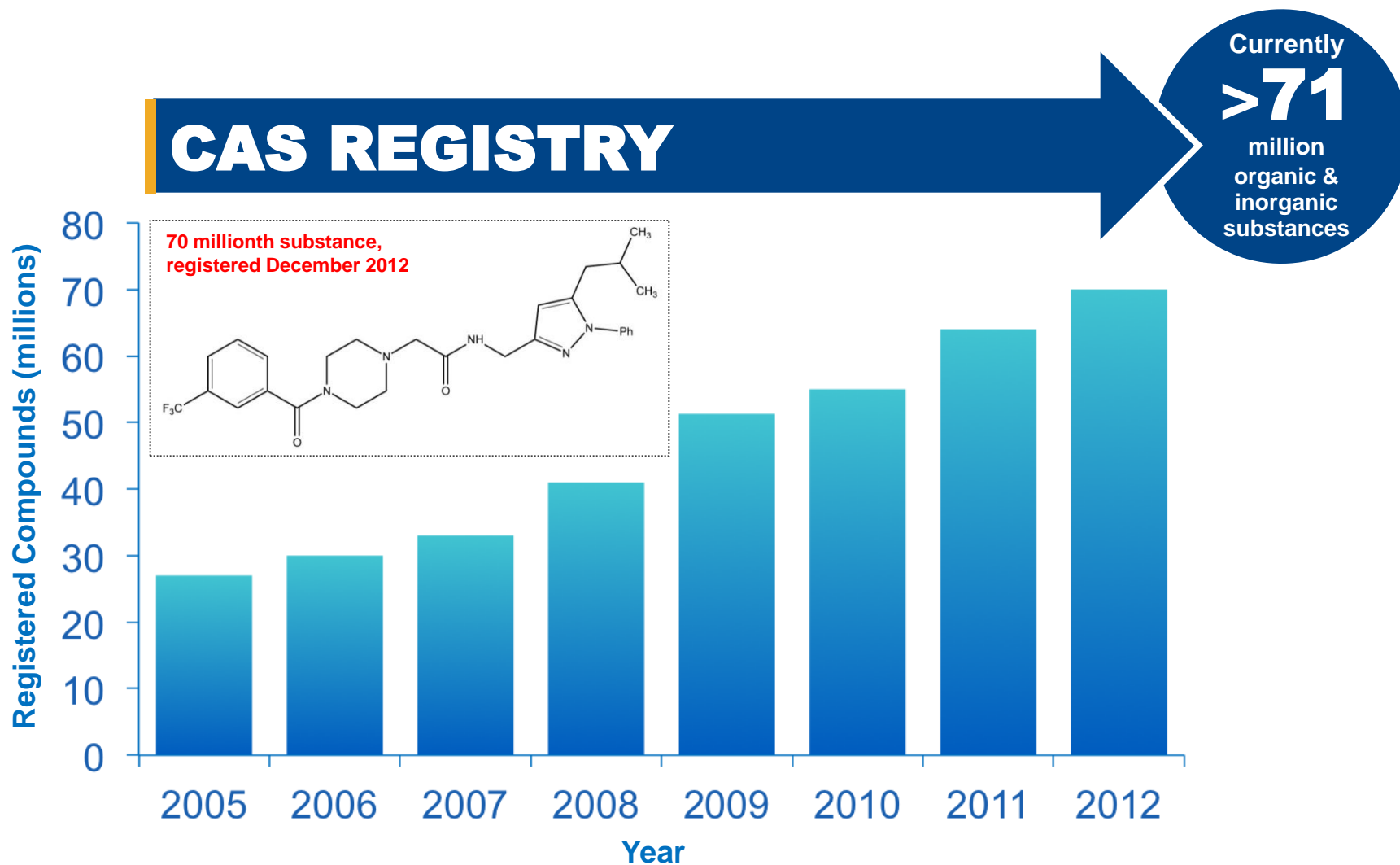
回溯至1961年

每天更新（60-75篇专利引文，以及150-200个Markush结构）

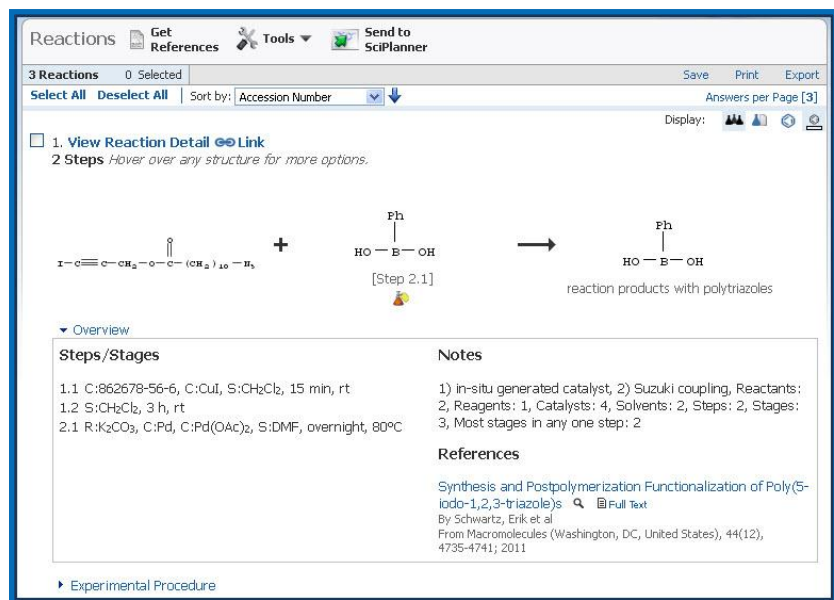
CAPLUSSM 涵盖了上万种期刊及63个专利发行机构专利



CAS Registry 是世界上最大的化学物质数据库



CASREACT[®] 是检索化学反应最权威的来源



- >5100万 单步和多步反应
- >1360万 物质合成制备信息
- 源自专利和期刊
- 可回溯到1840年
- 每天更新

CASREACT是世界上最大的，更新速度最快的反应数据库

提纲

- 介绍
 - SciFinder Web内容
- **SciFinder Web中的检索**
 - SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索
- **SciFinder Web的注册和常见问题**

SciFinder Web登陆界面—<http://scifinder.cas.org>

**SciFinder®**
The choice for chemistry research.™

Sign In

Username

Password

☐ **Remember me for two weeks unless I sign out**
(Do not use on a shared computer)

[Forgot Username or Password?](#)

Your SciFinder username and password are assigned to you alone and may not be shared with anyone else.

输入SciFinder帐号和密码



News & Updates

Welcome to SciFinder

The New SciFinder is Here!

What do you think of our new look? See [What's New in SciFinder](#) to learn about our sleek new design and capabilities, and start exploring today!

Collaboration Helps Integrate SciFinder to Streamline Research Workflows

See how our collaboration with several customers, including Vertex Pharmaceuticals, helped them better integrate SciFinder to [streamline research workflows](#).

Expanded Coverage of Chemical Reaction Information in SciFinder

Learn how our [collaboration with Thieme Publishing Group](#) will add hundreds of thousands of new experimental procedures to SciFinder for chemical reactions reported in SYNLETT and SYNTHESIS.

CAS is Collaborating with Springer to Help You Identify Preferred Synthetic Methods Faster

Thousands of new experimental procedures are being added to SciFinder for chemical reactions

SciFinder中的文献记录

REFERENCE DETAIL ⓘ
Get Substances
Get Related Citations
Get Full Text
Return
Previous
Next

1. Selective oxidation of light alkanes: interaction between the catalyst and the gas phase on different classes of catalytic materials

By: Cavani, F.; Trifiro, F.

A review, with 202 refs., on the selective oxidn. of light (C₅6) alkanes to bulk and industrial chems., with emphasis on catalyst-gas phase interactions. Attention was given mainly to: (1) the role of the redox properties of transition metal oxide-based systems, and (2) the contribution of radical-type, homogeneous and heterogeneously-initiated homogeneous reactions over nonreducible metal oxide and noble metal catalysts. Other topics included: (1) key factors in selective oxidn. of light alkanes, (2) bulk and surface properties of catalysts, (3) oxidative dehydrogenation, (4) control of oxygen supply to the catalyst, (5) non-redox-type metal oxides (e.g., alk. earth oxides, rare earth oxides, boron oxides, tin oxides, and silica). Some research examples are: (1) oxidn. of propane to acrylic acid and isobutane to methacrylic acid over Keggin-type heteropolymolybdates, (2) oxidative dehydrogenation of alkanes to alkenes over vanadium oxide-based catalysts, and (3) oxidn. of butane and pentane over vanadyl pyrophosphate.

Indexing

Fossil Fuels, Derivatives, and Related Products (Section51-0)

Section cross-reference(s): 35, 45

Concepts

Redox reaction catalysts

catalyst-gas phase interactions in selective oxidn. of light alkanes to bulk and industrial chems.

Alkaline earth oxides Rare earth oxides

catalysts contg.; catalyst-gas phase interactions in selective oxidn. of light alkanes to bulk and industrial chems.

Catalyst use; Properties; Uses

Substances

12026-66-3 58834-75-6

catalyst-gas phase interactions in selective oxidn. of light alkanes to bulk and industrial chems.

Catalyst use; Uses

1303-86-2 Boron oxide, uses 1332-29-2 Tin oxide 7631-86-9 Silica, uses

QUICK LINKS

0 Tags, 0 Comments

SOURCE

Catalysis Today
Volume51
Issue3-4
Pages561-580
Journal; General Review
1999
CODEN:CATTEA
ISSN:0920-5861
DOI:10.1016/S0920-5861(99)00041-3

COMPANY/ORGANIZATION

Dipartimento di Chimica Industriale e dei Materiali
Bologna, Italy 40136

ACCESSION NUMBER

1999:340014
CAN131:159478
CAPLUS

PUBLISHER

Elsevier Science B.V.

Citations

Bielanski, A; Oxygen in Catalysis 1991
 Haber, J; ACS Symp Series 1996, 638, 20
 Oyama, S; ACS Symp Series 1996, 638, 2
 Lee, J; Catal Rev-Sci Eng 1988, 30, 249
 Kung, H; Adv Catal 1994, 40, 1
 Vedrine, J; Catal Today 1997, 33, 3
 Vedrine, J; Catal Today 1996, 32, 115
 Busca, G; Catal Today 1996, 32, 133
 Cavani, F; Catalysis 1994, 11, 246
 Albonetti, S; Catal Rev-Sci Eng 1996, 38, 413
 Sokolovskii, V; Catal Rev-Sci Eng 1990, 32, 1
 Delmon, B; Catalysts in Petroleum Refining and Petrochemical Industries 1995 1996
 Burch, R; J Mol Catal A 1995, 100, 13
 Schmidt, L; Chem Eng Sci 1994, 49, 3981
 Kung, H; ACS Symp Series 1993, 523, 387
 Trifiro, F; Selective Partial Oxidation of Hydrocarbons and Related Oxidations 1994
 Trifiro, F; Oxidative dehydrogenation and alternative dehydrogenation processes 1993
 Cavani, F; Catal Today 1995, 24, 307

一篇完整的文献界面包括:

1. 题录信息
2. 摘要信息
3. 文献中重要的概念
4. 文献中重要的物质
5. 书目信息
6. 获得文献中的物质, 反应, 引文等
7. 文献中的引文信息

SciFinder中的文献检索方法

功能方面

- 主题检索
- 作者名检索
- 机构名检索
- 文献标示符检索
- 从物质，反应获得文献

检索方法推荐

- 关注某特定领域的文献——-主题检索
- 关注物质有关的文献——-先获得物质，再获得文献
- 关注某科研人员的文献——-作者名检索

SciFinder中的主题检索

主题词: **Nanomaterials with magnetic**

The screenshot displays the SciFinder web interface. At the top, the SciFinder logo is on the left, and navigation links for 'Preferences', 'SciFinder Help', and 'Sign Out' are on the right. Below the header, a navigation bar includes 'Explore', 'Saved Searches', and 'SciPlanner'. The main content area shows a search for 'Research Topic "Nanomaterials with magnetic" > references (2398)'. On the left sidebar, under the 'REFERENCES' section, 'Research Topic' is highlighted with a red box. In the central search area, the text 'Nanomaterials with magnetic' is entered into a search box, also highlighted with a red box. Below the search box, there are examples of search results: 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromatic compounds'. A blue arrow points to the 'Search' button. To the right of the search area, there is a 'SAVED ANSWER SETS' section with a list of saved sets, including '20131016-1', '20131016', '20131016 alloy molecule', '20131016 alloy molecule', '20131016', '20131009', '20130923', '20130807', '丁苯橡胶', '20130806', and 'Autosaved Reference Set'. At the bottom right, there is a 'KEEP ME POSTED' section with the date '20130916 Sep 21, 2013(1)'.

术语之间最好用英文的介词如 of, with, beyond, in, on, as 等连接;
最多输入 5 个术语, 2~3个左右最好

SciFinder中的候选选项

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della Li

Explore | Saved Searches | SciPlanner

Research Topic "Nanomaterials with magnetic"

REFERENCES ⓘ

Select All Deselect All

1 of 5 Research Topic Candidates Selected

	References
<input type="checkbox"/> 57 references were found containing "Nanomaterials with magnetic" as entered.	57
<input checked="" type="checkbox"/> 2398 references were found containing the two concepts "Nanomaterials" and "magnetic" closely associated with one another.	2398
<input type="checkbox"/> 4809 references were found where the two concepts "Nanomaterials" and "magnetic" were present anywhere in the reference.	4809
<input type="checkbox"/> 54358 references were found containing the concept "Nanomaterials".	54358
<input type="checkbox"/> 2055043 references were found containing the concept "magnetic".	2055043

Get References

关键词拼写上的变化及同义词都会被检索到
通常,第二项有“concept”和“closely associated with one another” 的选项是更好的选择

SciFinder中的引文排序

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della Li

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Research Topic "Nanomaterials with magnetic" > references (2398)

REFERENCES ⓘ

Get Substances Get Reactions Get Related Citations Get Full Text Tools ▾

Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine Categorize

Sort by: Citing References ▾

Answers per Page [20] Display: — = ≡

Page: 1 of 120

Analyze by: Author Name

Author Name	Citations
Garno Jayne C	16
Matsunaga Tadashi	13
Laudon Matthew	11
Lei Chunsheng	11
Lei Siyu	11
Wang Xin	11
Kumar Challa	10
Nalwa Hari Singh	10
Iqbal Muhammad Javed	9

1. **of Nanostructured Materials**
By Leslie-Pelecky, Diana L.; Rieke, Reuben D.
From Chemistry of Materials (1996), 8(8), 1770-1783. | Language: English, Database: CAPLUS
~764

A review with 285 refs. Understanding the correlation between **magnetic** properties and nanostructure involves collaborative efforts between chemists, physicists, and **materials** scientists to study both fundamental properties and potential applications. This article introduces a classification of nanostructure morphol. according to the mechanism responsible for the **magnetic** properties. The fundamental **magnetic** properties of interest and the theor. frameworks developed to model these properties are summarized. Common chem. and phys. techniques for the fabrication of **magnetic** nanostructures are...

2. **Protonated titanates and TiO2 nanostructured materials: synthesis, properties, and applications**
By Bavykin, Dmitry V.; Friedrich, Jens M.; Walsh, Frank C.
From Advanced Materials (Weinheim, Germany) (2006), 18(21), 2807-2824. | Language: English, Database: CAPLUS
~551

A review. Tubular and fibrous nanostructures of titanates have recently been synthesized and characterized. Three general approaches (template assisted, anodic oxidn., and alk. hydrothermal) for the prepn. of **nanostructured** titanate and TiO2 are reviewed. The crystal structures, morphologies, and mechanism of formation of **nanostructured** titanates produced by the alk. hydrothermal method are critically discussed. The physicochem. properties of **nanostructured** titanates are highlighted and the links between properties and applications are emphasized. Examples of early applications of **nanostr...**

3. **Multifunctional Magnetic Nanoparticles: Design, Synthesis, and Biomedical Applications**
By Gao, Jinhao; Gu, Hongwei; Xu, Bing
From Accounts of Chemical Research (2009), 42(8), 1097-1107. | Language: English, Database: CAPLUS
~479

选择sort by里的citing reference 可以获得被引用次数最多的文献

SciFinder中的文献筛选工具

The screenshot displays the SciFinder web interface. At the top, the SciFinder logo is on the left, and 'Preferences | SciFinder Help | Sign Out' are on the right. Below the header, a navigation bar includes 'Explore', 'Saved Searches', and 'SciPlanner'. The main content area shows a search for 'Research Topic "Nanomaterials with magnetic" > references (2398)'. A red arrow points to the 'Analyze' tab, which is highlighted with a red box. The 'Analyze' tab has sub-tabs for 'Analyze by:', 'Refine', and 'Categorize'. The 'Analyze by:' dropdown is set to 'Author Name'. A list of authors is shown on the left, including Garino Jayne C (16), Matsunaga Tadashi (13), Laudon Matthew (11), Lei Chunsheng (11), Lei Siyu (11), Wang Xin (11), Kumar Challa (10), Nalwa Hari Singh (10), Iqbal Muhammad Javed (9), and others. The main results area shows a list of references. The first reference is '1. Magnetic Properties of Nanostructured Materials' by Leslie-Pelecky, Diandra L.; Rieke, Reuben D. The second reference is '2. Protonated titanates and TiO2 nanostructured materials: synthesis, properties, and applications' by Bavykin, Dmitry V.; Friedrich, Jens M.; Wubö, Frank G. The third reference is '3. Multifunctional Magnetic Nanoparticles: Design, Synthesis, and Biomedical Applications' by Gao, Jinhao; Gu, Hongwei; Xu, Bing. The keywords 'Magnetic', 'nanostructured materials', and 'Magnetic' are highlighted in red in the titles of the second and third references, respectively. A red arrow points to the 'Magnetic' keyword in the third reference title. The interface also includes a 'Sort by:' dropdown set to 'Citing References', a '0 of 2398 References Selected' indicator, and a 'Page: 1 of 120' display.

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della Li

Explore | Saved Searches | SciPlanner

Research Topic "Nanomaterials with magnetic" > references (2398)

REFERENCES

Get Substances | Get Reactions | Get Related Citations | Get Full Text | Tools

Create Keep Me Posted Alert | Send to SciPlanner

Analyze | Refine | Categorize

Sort by: Citing References

Answers per Page [20] Display: — = ≡

0 of 2398 References Selected

Page: 1 of 120

1. **Magnetic Properties of Nanostructured Materials** | Full Text
By Leslie-Pelecky, Diandra L.; Rieke, Reuben D.
From Chemistry of Materials (1996), 8(8), 1770-1783. | Language: English, Database: CAPLUS
A review with 285 refs. Understanding the correlation between **magnetic** properties and nanostructure involves collaborative efforts between chemists, physicists, and **materials** scientists to study both fundamental properties and potential applications. This article introduces a classification of nanostructure morphol. according to the mechanism responsible for the **magnetic** properties. The fundamental **magnetic** properties of interest and the theor. frameworks developed to model these properties are summarized. Common chem. and phys. techniques for the fabrication of **magnetic** nanostructures are...


2. **Protonated titanates and TiO2 nanostructured materials: synthesis, properties, and applications** | Full Text
By Bavykin, Dmitry V.; Friedrich, Jens M.; Wubö, Frank G.
From Advanced Materials (Weinheim, Germany) (2006), 18(21), 2807-2824. | Language: English, Database: CAPLUS
A review. Tubular and fibrous nanostructures of titanates have recently been synthesized and characterized. Three general approaches (template assisted, anodic oxidn., and alk. hydrothermal) for the prepn. of **nanostructured** titanate and TiO2 are reviewed. The crystal structures, morphologies, and mechanism of formation of **nanostructured** titanates produced by the alk. hydrothermal method are critically discussed. The physicochem. properties of **nanostructured** titanates are highlighted and the links between properties and applications are emphasized. Examples of early applications of **nanostr...**

3. **Multifunctional Magnetic Nanoparticles: Design, Synthesis, and Biomedical Applications** | Full Text
By Gao, Jinhao; Gu, Hongwei; Xu, Bing
From Accounts of Chemical Research (2009), 42(8), 1097-1107. | Language: English, Database: CAPLUS

关键词高亮显示

Analyse-作者姓名分析

Analyze Refine Categorize

Analyze by: 


Author Name ▼

Garno Jayne C	16
Matsunaga Tadashi	13
Laudon Matthew	11
Lei Chunsheng	11
Lei Siyu	11
Wang Xin	11
Kumar Challa	10
Nalwa Hari Singh	10
Iqbal Muhammad Javed	9
Romanowicz Bart	9

Show More

Garno Jayne C在此领域发表了16篇文献

Analyze - Author Name

 Only 1,000 Authors are displayed. [close](#)

7742 Items 1 Selected [Export](#)

Sort by: **Frequency** ▼ Page: 1 of 20 ▶▶

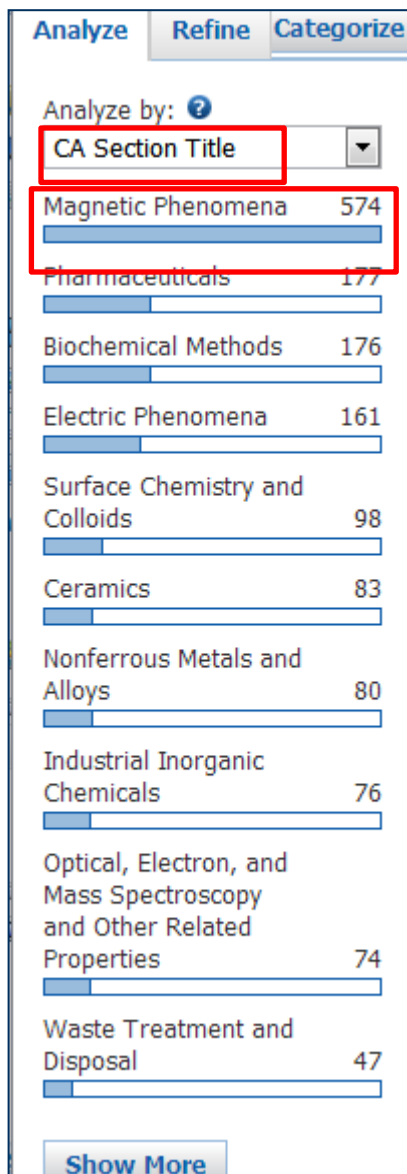
Select bars to view only those references within the current answer set.

<input checked="" type="checkbox"/> Garno Jayne C	16
<input type="checkbox"/> Matsunaga Tadashi	13
<input type="checkbox"/> Laudon Matthew	11
<input type="checkbox"/> Lei Chunsheng	11
<input type="checkbox"/> Lei Siyu	11
<input type="checkbox"/> Wang Xin	11
<input type="checkbox"/> Kumar Challa	10
<input type="checkbox"/> Nalwa Hari Singh	10
<input type="checkbox"/> Iqbal Muhammad Javed	9
<input type="checkbox"/> Romanowicz Bart	9

Apply Cancel

点击**Apply**获得相应作者的文献

Analyse-CA Section Title分析



CA Section Title帮助分析主要的应用领域

磁性纳米材料主要应用的领域：
有磁现象，制药，电现象，表面化学和胶体等

Sort by: Citing References 0 of 574 References Selected 有574篇关于磁现象的文献报道

Answers per Page [20] Display: 1 of 29

- Magnetic Properties of Nanostructured Materials** Full Text

By Leslie-Pelecky, Dandra L.; Rieke, Reuben D.
From Chemistry of Materials (1996), 8(8), 1770-1783. | Language: English, Database: CAPLUS

A review with 285 refs. Understanding the correlation between **magnetic** properties and nanostructure involves collaborative efforts between chemists, physicists, and **materials** scientists to study both fundamental properties and potential applications. This article introduces a classification of nanostructure morphol. according to the mechanism responsible for the **magnetic** properties. The fundamental **magnetic** properties of interest and the theor. frameworks developed to model these properties are summarized. Common chem. and phys. techniques for the fabrication of **magnetic** nanostructures are...

~764
- Nanoscale magnetic domains in mesoscopic magnets** Full Text

By Hehn, Michel; Ounadjela, Kamel; Bucher, Jean-Pierre; Rousseau, Françoise; Decanini, Dominique; Bartenlian, Bernard; Chappert, Claude
From Science (Washington, D. C.) (1996), 272(5269), 1782-1785. | Language: English, Database: CAPLUS

The basic **magnetic** properties of three-dimensional **nanostructured materials** can be drastically different from those of a continuous film. High-resoln. **magnetic** force microscopy studies of **magnetic** submicrometer-sized cobalt dots with geometrical dimensions comparable to the width of **magnetic** domains reveal a variety of intricate domain patterns controlled by the details of the dot geometry. By changing the thickness of the dots, the width of the geometrically constrained **magnetic** domains can be tuned. Concentric rings and spirals with vortex configurations were stabilized, with particular i...

~288
- Application of Superhydrophobic Surface with High Adhesive Force in No Lost Transport of Superparamagnetic Microdroplet** Full Text

By Hong, Xia; Gao, Xuefeng; Jiang, Lei
From Journal of the American Chemical Society (2007), 129(6), 1478-1479. | Language: English, Database: CAPLUS

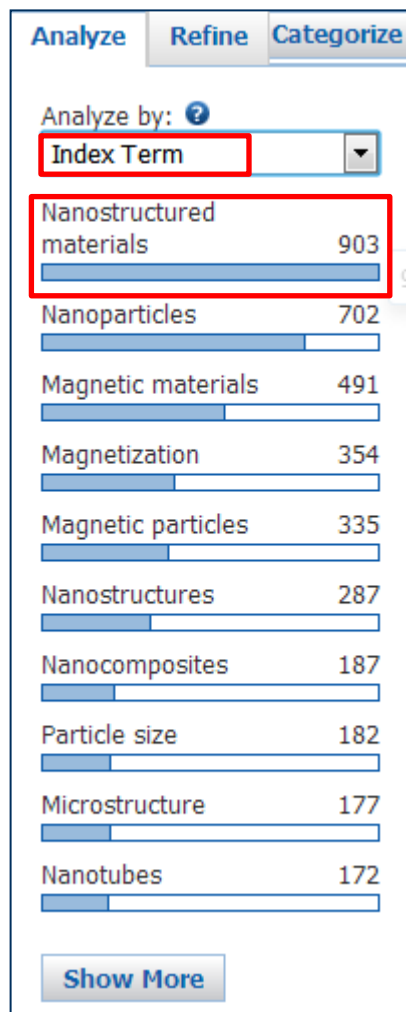
Due to the wide applications of **magnetic nanomaterials** in biol., pharmacy, and diagnostics, there is an increasing need for controlled transport of their small vols. of liqs. Here, the authors designed a simple, high-efficiency, and flexible method for reversibly oriented transport of superparamagnetic microdroplets with no lost vol. by alternating **magnetic** fields. Superhydrophobic surfaces with high adhesive force played an important role, and the success of reversibly no lost transport also relied on the sensitive responsive property of the superparamagnetic microdroplet to applied **magneti...**

~155
- Giant magneto-impedance effect in nanostructured magnetic wires** Full Text

By Knobel, M.; Sanchez, M. L.; Gomez-Polo, C.; Marin, P.; Vazquez, M.; Hernando, A.
From Journal of Applied Physics (1996), 79(3), 1646-54. | Language: English, Database: CAPLUS

~130

Analyse-索引词分析



Index Term帮助分析文献中出现的重要内容

直接点击感兴趣的内容获得相应文献

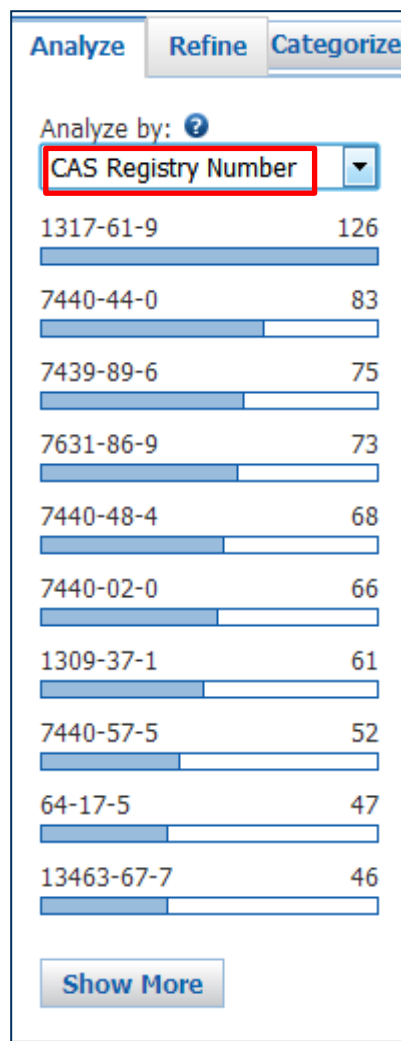
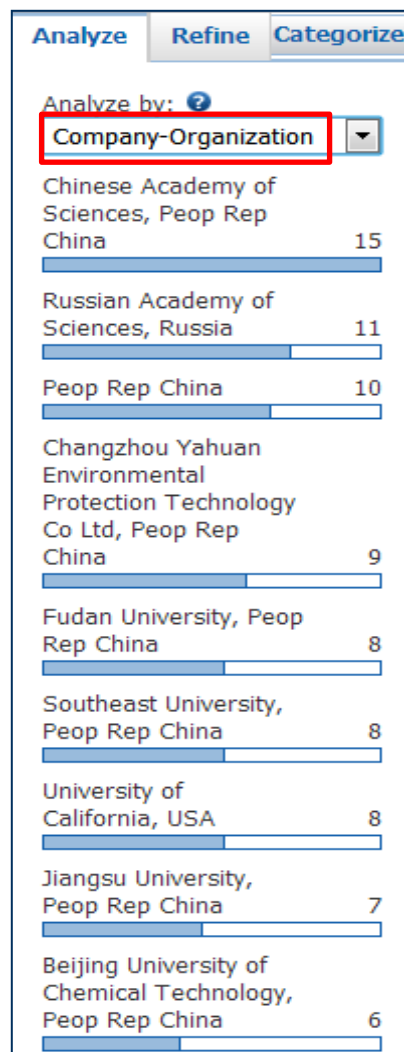
Sort by: Citing References 0 of 903 References Selected

有903篇关于纳米材料的文献报道

Answers per Page [20] Display: 1 of 46

- 1. Platinum-Based Nanostructured Materials: Synthesis, Properties, and Applications**
By Chen, Aicheng; Holt-Hindle, Peter
From Chemical Reviews (Washington, DC, United States) (2010), 110(6), 3767-3804. | Language: English, Database: CAPLUS
~261
A review. Common methods are described for prepn. of Pt and Pt-based nanostructured materials including the sol-gel method, electrodeposition, electroless deposition, and phys. methods as well as hydrothermal and solvothermal techniques. The effect of compn. and morphol. of the Pt and Pt-based nanomaterials on their catalytic and magnetic and optical properties are discussed. Applications of Pt and Pt-based nanomaterials for fuel cells such as electrochem. oxidn. of ethanol and methanol are also discussed.
- 2. Nanotechnology and nanomaterials: promises for improved tissue regeneration**
By Zhang, Lijie; Webster, Thomas J.
From Nano Today (2009), 4(1), 66-80. | Language: English, Database: CAPLUS
~190
A review. Tissue engineering and regenerative medicine aim to develop biol. substitutes that restore, maintain, or improve damaged tissue and organ functionality. While tissue engineering and regenerative medicine have hinted at much promise in the last several decades, significant research is still required to provide exciting alternative materials to finally solve the numerous problems assocd. with traditional implants. Nanotechnol., or the use of nanomaterials (defined as those materials with constituent dimensions less than 100 nm), may have the answers since only these materials can mi...
- 3. Magnetically Recoverable Nanocatalysts**
By Polshettiwar, Vivek; Luque, Rafael; Fhri, Aziz; Zhu, Haibo; Bouhrara, Mohamed; Basset, Jean-Marie
From Chemical Reviews (Washington, DC, United States) (2011), 111(5), 3036-3075. | Language: English, Database: CAPLUS
~186
A review was given on the prepn of magnetically recoverable nanocatalysts and their application in org. synthesis.
- 4. Multifunctional magnetic-fluorescent nanocomposites for biomedical applications**
By Corr, Serena A.; Rakovich, Yuri P.; Gun'ko, Yuri K.
From Nanoscale Research Letters (2008), 3(3), 87-104. | Language: English, Database: CAPLUS
~177
A review. Nanotechnol. is a fast-growing area, involving the fabrication and use of nano-sized materials and devices. Various nanocomposite materials play a no. of important roles in modern science and technol. Magnetic and fluorescent inorg. nanoparticles are of particular importance due to their broad range of potential applications. It is expected that the combination of magnetic and fluorescent properties in one nanocomposite would enable the engineering of unique multifunctional nanoscale devices, which could be manipulated using external magnetic fields. The aim of this review is to...
- 5. Colloidal Hybrid Nanostructures: A New Type of Functional Materials**
By Costi, Ronny; Saunders, Aaron E.; Banin, Uri
~174

Analyse-机构名称, 期刊名称, CAS No分析



Refine-主题词限定

Analyze

Refine

Categorize

Refine by: ?

- ☒ Research Topic
- ☐ Author
- ☐ Company Name
- ☐ Document Type
- ☐ Publication Year
- ☐ Language
- ☐ Database

Research Topic

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

点击refine

Sort by: **Citing References**
Answers per Page [20] Display:

0 of 6 References Selected

有6篇是关于纳米金刚石方面的研究

快速浏览

1. **New prospects and frontiers of nanodiamond clusters** [Full Text](#)
By Baidakova, Marina; Vul, Alexander
From Journal of Physics D: Applied Physics (2007), 40(20), 6300-6311. | Language: English, Database: CAPLUS
A review. The review is devoted to nanodiamond as a member of new nanocarbon allotropes. The past results related to the main features of detonation technol. for producing nanodiamond are highlighted. Effects of technol. on the structure of nanodiamond particles as well as functionalization of nanodiamond surface to chem. properties are discussed. The real structure of single nanodiamond particles has been critically reviewed and its aggregation problem emphasized. Several applications of nanodiamonds mainly as precursors for CVD **diamond** film growth, for forming new magnetic nanomaterials...

2. **Less-Common Nanostructures in the Forms of Vegetation** [Full Text](#)
By Kharissova, Oksana V.; Kharisov, Boris I.
From Industrial & Engineering Chemistry Research (2010), 49(22), 11142-11169. | Language: English, Database: CAPLUS
A review. Nanostructures in the forms of varieties of vegetation are reviewed, in particular nanotrees and their agglomerates, nanobushes, nanomushrooms, nanoflowers, nanograss, and nanosheafs, among many others. Synthesis methods, influence of reaction conditions on the structural types of products, properties, formation mechanisms, and current and future applications are discussed. These nanostructures possess a series of useful properties (magnetic, semiconducting, field-emission, etc.) and applications, mainly in catalysis, as well as for creation of nanomaterials, solar cells, and in m...

3. **Articles comprising nano-materials for geometry-guided stem cell differentiation and enhanced bone growth** [Full Text](#)
reference(s) in current answer set
an; Brammer, Karl
(2011), US 20110085968 A1 20110414. | Language: English, Database: CAPLUS

The present invention provides articles of manuf. comprising biocompatible nanostructures comprising significantly increased surface area for, e.g., organ, tissue and/or cell growth, e.g., for bone, tooth, kidney or liver growth, and uses thereof, e.g., for in vitro testing of drugs, chems. or toxins, or as in vivo implants, including their use in making and using artificial tissues and organs, and related, diagnostic, screening, research and development and therapeutic uses, e.g., as drug delivery devices. The present invention provides biocompatible nanostructures with significantly increas...

Quick View

New prospects and frontiers of nanodiamond clusters
[Full Text](#)
By Baidakova, Marina; Vul, Alexander
From Journal of Physics D: Applied Physics (2007), 40(20), 6300-6311. | Language: English, Database: CAPLUS
A review. The review is devoted to nanodiamond as a member of new nanocarbon allotropes. The past results related to the main features of detonation technol. for producing nanodiamond are highlighted. Effects of technol. on the structure of nanodiamond particles as well as functionalization of nanodiamond surface to chem. properties are discussed. The real structure of single nanodiamond particles has been critically reviewed and its aggregation problem emphasized. Several applications of nanodiamonds mainly as precursors for CVD diamond film growth, for forming new magnetic nanomaterials and field electron emitters are reviewed. As a result, the availability of nanodiamonds as attractive building blocks for nanotechnol. is concluded.

Substance Images
7782-40-3 Diamond properties


Refine-文献类型限定

Analyze Refine Categorize

Refine by: ?

☐ Research Topic
 ☐ Author
 ☐ Company Name
 ☒ Document Type
 ☐ Publication Year
 ☐ Language
 ☐ Database

Document Type(s)

☐ Biography
 ☐ Book
 ☐ Clinical Trial
 ☐ Commentary
 ☐ Conference
 ☐ Dissertation
 ☐ Editorial
 ☐ Historical
 ☒ Journal
 ☐ Letter
 ☒ Patent
 ☐ Preprint
 ☐ Report
 ☐ Review

Refine

点击refine

Sort by: Citing References

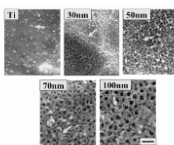
0 of 2 References Selected

其中2篇是关于纳米金刚石方面的专利

1. Articles comprising nano-materials for geometry-guided stem cell differentiation and enhanced bone growth

By Jin, Sungho; Oh, Seunghan; Brammer, Karla

From U.S. Pat. Appl. Publ. (2011), US 20110085968 A1 20110414. | Language: English, Database: CAPLUS



The present invention provides articles of manuf. comprising biocompatible nanostructures comprising significantly increased surface area for, e.g., organ, tissue and/or cell growth, e.g., for bone, tooth, kidney or liver growth, and uses thereof, e.g., for in vitro testing of drugs, chems. or toxins, or as in vivo implants, including their use in making and using artificial tissues and organs, and related, diagnostic, screening, research and development and therapeutic uses, e.g., as drug delivery devices. The present invention provides biocompatible nanostructures with significantly increased...

Water-based magneto-rheological polishing solutions for optical processing and their manufacture

From Faming Zhuanli Shenqing Gongkai Shuomingshu (2008), CN 101250380 A 20080627. | Language: Chinese, Database: CAPLUS

Title solns., with low viscosity and storage stability, comprise (a) 25-75 vol% water-based carrier solns. consisting of H₂O 85-90, dispersants 3-5, wetting agents 2-5, and thixotropic agents 3-5% (based on 100 parts the solns.) and (b) 25-75 vol% additives consisting of carbonyl Fe powders 80-90, nano-Fe powders 4-10, and polishing powders 4-10% (based on 100 parts additives). Title solns. are prep. by (1) stirring H₂O with thixotropic agents at room temp. for 1-2 h, then with dispersants at room temp. for 0.5-1 h, and with wetting agents at room temp. for 0.5-1 h to obtain water-based carr...

点击浏览详细信息

2. Water-based magneto-rheological polishing solutions for optical processing and their manufacture

By: Li, Shengyi; Dai, Yifan; Peng, Xiaoqiang; Song, Qi Shi; Feng, Chen, Shanyong; Zheng, Ziwen

Assignee: National University of Defense Technology of the People's Liberation Army, Peop. Rep. China

Title solns., with low viscosity and storage stability, comprise (a) 25-75 vol% water-based carrier solns. consisting of H₂O 85-90, dispersants 3-5, wetting agents 2-5, and thixotropic agents 3-5% (based on 100 parts the solns.) and (b) 25-75 vol% additives consisting of carbonyl Fe powders 80-90, nano-Fe powders 4-10, and polishing powders 4-10% (based on 100 parts additives). Title solns. are prep. by (1) stirring H₂O with thixotropic agents at room temp. for 1-2 h, then with dispersants at room temp. for 0.5-1 h, and with wetting agents at room temp. for 0.5-1 h to obtain water-based carrier solns., and (2) ball-milling the additives with the water-based carrier solns. at 20-30 rpm for 3-5 h. An aq. polish comprised of an additive mixt. consisting of 0.5-μm CeO₂ 15, 5-μm carbonyl Fe powders 130, and 50-nm Fe powders 8 mL and an aq. carrier consisting of H₂O 240, org. bentonite 10, tetra-Me ethylenediamine phosphate dispersant 14, glycerol wetting agent 14, NaNO₂ 0.5, mineral oil 1, and Na₂CO₃ (pH adjuster) 0.5 mL.

Patent Information

Patent No.	Kind	Date	Application No.	Date
CN 101250380	A	Aug 27, 2008	CN 2008-10030904	Mar 25, 2008
CN 101250380	B	Aug 11, 2010		

Priority Application

CN 2008-10030904 Mar 25, 2008

Indexing

Ceramics (Section57-1)

Section cross-reference(s): 73

Concepts

Nanostructured materials

Fe powders; manuf. of aq. magnetorheol. polishing solns. for optical processing

Dispersing agents

Glass substrates

Polishing materials

Substances

60-00-4, uses

dispersant; manuf. of aq. magnetorheol. polishing solns. for optical processing

Modifier or additive use; Uses

专家整理出索引、概念、物质, 更容易检索

CAS is a division of the American Chemical Society.

21

Copyright 2011 American Chemical Society. All rights reserved.

从文献获得物质

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Delia Li

Explore | Saved Searches | SciPlanner | Link | Save | Print | Export

Opened saved answer set "20131022" (2398) > keep analysis "Index Term" (903) > refine "diamond" (6) > refine "Patents only" (2) > Water-based magneto-rheologica...

REFERENCE DETAIL | **Get Substances** | Get Related Citations | Get Full Text | Send to SciPlanner

Return | Previous | Next

2. Water-based magneto-rheological polishing solutions for optical processing and their manufacture

By: Li, Shengyi; Dai, Yifan; Peng, Xiaoqiang; Song, Ci; Shi, Feng; Chen, Shanyong; Zheng, Ziwen
Assignee: National University of Defense Technology of the People's Liberation Army, Peop. Rep. China

Title solns., with low viscosity and storage stability, comprise (a) 25-75 vol% water-based carrier solns. consisting of H₂O 85-90, dispersants 3-5, wetting agents 2-5, and thixotropic agents 3-5% (based on 100 parts the solns.) and (b) 25-75 vol% additives consisting of carbonyl Fe powders 80-90, nano-Fe powders 4-10, and polishing powders 4-10% (based on 100 parts additives). Title solns. are prep'd. by (1) stirring H₂O with thixotropic agents at room temp. for 1-2 h, then with dispersants at room temp. for 0.5-1 h, and with wetting agents at room temp. for 0.5-1 h to obtain water-based carrier solns., and (2) ball-milling the additives with the water-based carrier solns. at 20-30 rpm for 3-5 h. An aq. polish comprised of an additive mixt. consisting of 0.5-μm CeO₂ 15, 5-μm carbonyl Fe powders 130, and 50-nm Fe powders 8 mL and an aq. carrier consisting of H₂O 240, org. bentonite 10, tetra-Me ethylenediamine phosphate dispersant 14, glycerol wetting agent 14, NaNO₂ 0.5, mineral oil 1, and Na₂CO₃ (pH adjuster) 0.5 mL.

Patent Information

Patent No.
CN 101250380
CN 101250380

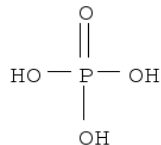
Priority Application
CN 2008-10030904

Indexing

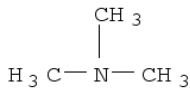
0 of 12 Substances Selected

1. Substance Detail
857408-67-4

7664-38-2
H3 O4 P



75-50-3
C3 H9 N

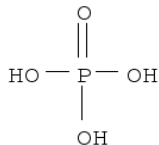


C3 H9 N . H3 O4 P
Methanamine, N,N-dimethyl-, phosphate (1:1)

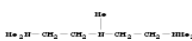
Experimental Properties

2. Substance Detail
63994-09-2

7664-38-2
H3 O4 P



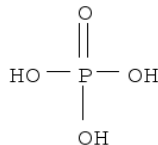
3030-47-5
C9 H23 N3



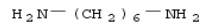
C9 H23 N3 . x H3 O4 P
1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N,N',N'-tetramethyl-, phosphate (1:1)

3. Substance Detail
17558-97-3

7664-38-2
H3 O4 P



124-09-4
C6 H16 N2



C6 H16 N2 . x H3 O4 P
1,6-Hexanediamine, phosphate (1:1)

4. Substance Detail
10042-84-9

5. Substance Detail
9004-32-4

6. Substance Detail
7782-40-3

Categorize

- Select a heading and category.
- Select index terms of interest.

Category Heading	Category	Index Terms	Selected Terms
All	Reactants & reagents (1192)	Page: 1 of 12 Select All Deselect All <input type="checkbox"/> Iron oxide (Fe_3O_4) 108 <input checked="" type="checkbox"/> Silica 51 <input type="checkbox"/> Ferric oxide 45 <input type="checkbox"/> Carbon 38 <input type="checkbox"/> Cobalt ferrite 28 <input type="checkbox"/> Zinc oxide 27 <input type="checkbox"/> Titania 26 <input type="checkbox"/> Cobalt 24 <input type="checkbox"/> Nickel 23 <input type="checkbox"/> Iron 18 <input type="checkbox"/> Silver 18 <input type="checkbox"/> Gold 14 <input type="checkbox"/> Iron nickel oxide (Fe_2NiO_4) 14 <input type="checkbox"/> Iron manganese oxide (Fe_2MnO_4) 11	Click 'x' to remove the category from 'Selected Terms' ✖ Synthetic chemistry > Prepared substances (1 Terms) ✖ Synthetic chemistry > Manufactured substances (1 Terms)
Technology			
General chemistry			
Physical chemistry			
Synthetic chemistry	Prepared substances (1165)		
Polymer chemistry			
Biotechnology			
Biology			
Analytical chemistry			
Genetics & protein chemistry			
Catalysis			
Environmental chemistry			

Synthetic chemistry > Prepared substances > 1 Index Term(s) Selected

OK Cancel

Categorize—基于CAS索引获得更多详细的信息

定题服务功能

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della Li

Explore | Saved Searches | SciPlanner | Save | Print | Export

Research Topic "nanomaterials with Magnetic" > references (2400)

REFERENCES | Get Substances | Get Reactions | Get Related Citations | Get Full Text | Tools

Analyze | Refine | Categorize

Analyze by: Author Name

Author Name	Count
Garno Jayne C	16
Matsunaga Tadashi	13
Laudon Matthew	11
Lei Chunsheng	11
Lei Siyu	11
Wang Xin	11
Kumar Challa	10
Nalwa Hari Singh	10
Iqbal Muhammad Javed	9

Sort by: Accession Number

0 of 2400 References Selected

1. Explicit numerical study of unsteady hydromagnetic mixed convective nanofluid flow from an exponentially stretching sheet in porous media

By Beg, O. Anwar; Khan, M. S.; Karim, Ifsana; Alam, Md. M.; Ferdows, M.

From Applied Nanoscience, Ahead of Print. | Language: English, Database: CAPLUS

A numerical investigation of unsteady MHD mixed convective boundary layer flow of a nanofluid over an exponentially stretching sheet in porous media, is presented. The transformed, non-similar conservation equations are solved using a robust, explicit, finite difference method (EFDM). A detailed stability and convergence anal. is also conducted. The regime is shown to be controlled by a no. of emerging thermophys. parameters i.e. combined porous and hydromagnetic parameter (R), thermal Grashof no. (Gr), species Grashof no. (Gm), viscosity ratio parameter (Λ), dimensionless porous media ine...

2. Preparation and characterization of magnetic nanomaterial CoFe₂O₄ based on zeolite

By Li, Songbo; Zhao, Wenyu; Zhang, Yingjie

From Applied Nanoscience, Ahead of Print. | Language: English, Database: CAPLUS

3. D...

Create Keep Me Posted Alert

在 title 下面的空白框输入名称，可以为中文

Create Keep Me Posted Profile ?

* Required

Title: *

Description:

Characters Remaining: 1024

Duration

Expires On: Oct 22, 2014 [Change](#)

Frequency

Send updates once every

☒ Exclude previously retrieved references.

[Create](#) [Cancel](#)

Search:

Explore references by research topic: **nanomaterials with Magnetic**

Candidates Selected:

References which contain the two concepts "nanomaterials" and "Magnetic" closely associated with one another

保存,打印,导出

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della Li

Explore | Saved Searches | SciPlanner

Link | Save | Print | Export

Opened saved answer set "20131022" (2398) > refine "diamond" (12) > refine "Patents only" (4) > Water-based magneto-rheologica...

REFERENCE DETAIL | Get Substances | Get Related Citations | Get Full Text | Send to SciPlanner

Return

4. Water-based magneto-rheological polishing solutions for optical processing and their manufacture

By: Li, Shengyi; Dai, Yifan; Peng, Xiaoqiang; Song, Qi; Shi, Feng; Chen, Shanyong; Zheng, Ziwen
Assignee: National University of Defense Technology of the People's Liberation Army, Peop. Rep. China

Title solns., with low viscosity and storage stability, comprise (a) 25-75 vol% water-based carrier solns. consisting of H₂O 85-90, dispersants 3-5, wetting agents 2-5, and thixotropic agents 3-5% (based on 100 parts the solns.) and (b) 25-75 vol% additives consisting of carbonyl Fe powders 80-90, nano-Fe powders 4-10, and polishing powders 4-10% (based on 100 parts additives). Title solns. are prepd. by (1) stirring H₂O with thixotropic agents at room temp. for 1-2 h, then with dispersants at room temp. for 0.5-1 h, and with wetting agents at room temp. for 0.5-1 h to obtain water-based carrier solns., and (2) ball-milling the additives with the water-based carrier solns. at 20-30 rpm for 3-5 h. An aq. polish comprised of an additive mixt. consisting of 0.5-μm CeO₂ 15, 5-μm carbonyl Fe powders 130, and 50-nm Fe powders 8 mL and an aq. carrier consisting of H₂O 240, org. bentonite 10, tetra-Me ethylenediamine phosphate dispersant 14, glycerol wetting agent 14, NaNO₂ 0.5, mineral oil 1, and Na₂CO₃ (pH adjuster) 0.5 mL.

Patent Information

Patent No.	Kind	Date	Application No.	Date
CN 101250380	A	Aug 27, 2008	CN 2008-10030904	Mar 25, 2008
CN 101250380	B	Aug 11, 2010		

Priority Application

Application No.	Date
CN 2008-10030904	Mar 25, 2008

Indexing

QUICK LINKS
0 Tags, 0 Comments

PATENT INFORMATION
Aug 27, 2008
CN 101250380
A

APPLICATION
Mar 25, 2008
CN 2008-10030904

PRIORITY
Mar 25, 2008
CN 2008-10030904

SOURCE
Faming Zhuanli Shengqing

导出：
将结果保存到
本地电脑

Save This Answer Set

* Required

Save:

☒ All answers
☐ Only selected answers

Title: *

Description:

OK Cancel

保存：
检索结果保存
到CAS 的服务器上

Export

* Required

Export:

☒ All
☐ Selected
☐ Range
Example: 2-20

For:

Citation Manager

☒ Citation export format (*.ris)
☐ Quoted Format (*.bt)
☐ Tagged Format (*.bt)

Offline review

☐ Portable Document Format (*.pdf)
☐ Rich Text Format (*.rtf)
☐ Answer Keys (*.bt)

Saving locally

☐ Answer Key eXchange (*.alox)

Details:

File Name: *

Reference_06_26_2012_150931

Export Cancel

ris 格式保存，可以
导入到Endnote 中

提纲

- 介绍

- SciFinder Web新界面

- **SciFinder Web中的检索**

- SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索

- **SciFinder Web的注册和常见问题**

SciFinder结构绘制工具

The image shows the SciFinder Structure Editor interface with various tools labeled in Chinese. The labels are connected to the corresponding tools in the software interface by red lines.

Tools and Labels:

- 铅笔 (Pencil)
- 橡皮 (Eraser)
- 结构 and 反应切换功能 (Structure and Reaction Switch Function)
- 元素周期表 (Periodic Table)
- 常用基团 (Common Groups)
- 可变基团 (Variable Groups)
- R基团定义工具 (R Group Definition Tool)
- 重复基团工具 (Repeat Group Tool)
- 可变位置连接工具 (Variable Position Connection Tool)
- 碳链工具 (Carbon Chain Tool)
- 模版工具 (Template Tool)
- 选择工具 (Selection Tool)
- 索套选择工具 (Lasso Selection Tool)
- 环锁定工具 (Ring Locking Tool)
- 原子锁定工具 (Atom Locking Tool)
- 旋转工具 (Rotation Tool)
- 镜面旋转工具 (Mirror Rotation Tool)
- 正电子 (Positron)
- C原子和单键恢复工具 (C Atom and Single Bond Recovery Tool)
- 负电子 (Electron)
- 单双键, RS构型, 不确定键定义工具 (Single/Double Bond, RS Configuration, Uncertain Bond Definition Tool)
- 常见环, 多元环工具 (Common Rings, Polycyclic Rings Tool)
- 结构检索选择 (Structure Search Selection)

Structure Editor Interface Details:

- Structure Editor window title bar.
- Draw or change atoms or bonds. (Yellow bar)
- Shortcut Keys (Link)
- Drawing Editor: Structure (Selected), Reaction, Markush.
- Get substances that match your query using: Exact search, Substructure search (Selected), Similarity search.
- Scale 100.
- Buttons: 确定 (OK), 取消 (Cancel).
- Bottom bar: (query), C, H, O, S, N, P, Cl, Br, F, I, Si, and various ring/atom symbols.

SciFinder中的反应定义工具

The image shows the 'Reaction Editor' window in SciFinder. The interface includes a toolbar on the left with various drawing tools, a central workspace for drawing, and a right-hand panel with options for drawing and searching. Red boxes and lines highlight specific tools and features, with Chinese labels provided for each.

Reaction Editor

Draw or change atoms or bonds. [Shortcut Keys](#)

Drawing Editor:

- ☐ Structure
- ☒ Reaction
- ☐ Markush

Get reactions where the structure(s) are:

- Variable
 - ☐ only at the specified positions
- Substructures
 - ☒ of more complex structures

Annotations:

- 反应箭头 (Reaction Arrow): Points to the reaction arrow icon in the toolbar.
- 反应原子标记工具 (Reaction Atom Labeling Tool): Points to the 'A' and 'B' atom labeling icons in the toolbar.
- 反应位置标记工具 (Reaction Position Labeling Tool): Points to the position labeling icon in the toolbar.
- 反应角色工具 (Reaction Role Tool): Points to the role labeling icon in the toolbar.
- 反应官能团列表 (Reaction Functional Group List): Points to the 'aldehyde', 'ketone', and 'aldol' list in the toolbar.

Scale 100

(query)

提纲

- 介绍

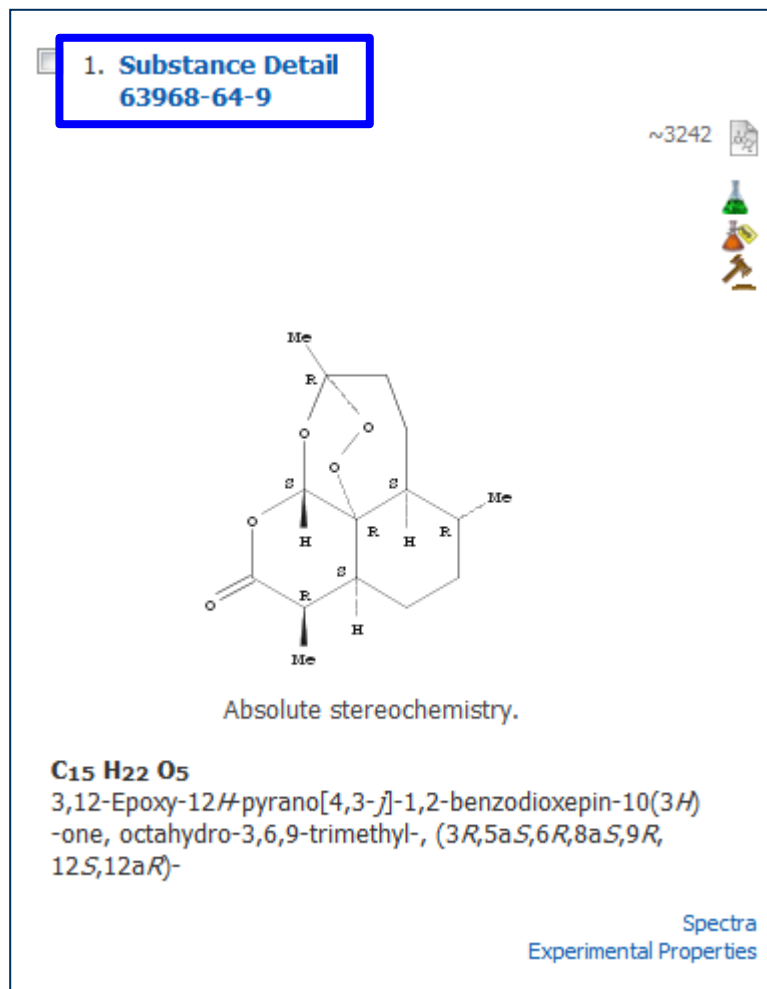
- SciFinder Web新界面

- **SciFinder Web中的检索**

- SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索

- **SciFinder Web的注册和常见问题**

SciFinder中的物质结果界面



一个完整的物质结果界面包含：

- 物质详情连接
- 文献连接
- 反应连接
- 商品信息连接
- 管制品信息连接
- 谱图连接
- 实验性质连接

Substance Detail—查看物质详细信息

SciFinder®

Explore ▾ Saved Searches ▾ SciPlanner

Substance Identifier "qinghaosu" > substances (1) > 63968-64-9

SUBSTANCE DETAIL ⓘ

Get References Get Reactions Get Commercial Sources Get Regulatory Information

Return

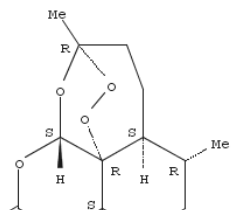
CAS Registry Number: 63968-64-9

C₁₅ H₂₂ O₅

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

3,12-Epoxy-12H-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, [3*R*-(3*a*,5*a*β,6β,8*a*β,9*a*,12β,12*a**R**)]-; (+)-Arteannuin; (+)-Artemisinin; (+)-Qinghaosu; Arteannuin; Artemef; Artemisine; Artemisinin; Artemisinine; Huanghuahaosu; NSC 369397; QHS; Qing Hau Sau; Qing Hau Su; Qinghaosu; Qinghosu

Deleted CAS Registry Numbers: 91487-93-3



物质的CAS号、分子式、结构式、化学名、别名

按照CAS Role分类的专利、非专利文献列表。对某类文献感兴趣，仅需点击交叉处的 即可方便快捷地获取。

Document Types: Book, Conference, Dissertation, Journal, Patent, Report

CAS Role	Patents	Nonpatents	Nonspecific Derivatives from Patents	Nonspecific Derivatives from Nonpatents
Analytical Study	✓	✓	✓	✓
Biological Study	✓	✓	✓	✓
Formation, Nonpreparative		✓	✓	✓
Miscellaneous	✓	✓		
Occurrence	✓	✓		✓
Preparation	✓	✓	✓	✓
Process	✓	✓	✓	✓
Properties	✓	✓	✓	✓
Prophetic in Patents	✓			
Reactant or Reagent	✓	✓	✓	✓
Uses	✓	✓	✓	✓

Substance Detail—查看物质详细信息

▼ Bioactivity Indicators <small>NEW</small>		References
Anti-infective agents (all) >>> Antimalarials		805
Anti-infective agents (all) >>> Antiviral agents		34
Anti-infective agents (all) >> Parasitocides		43
Anti-inflammatory agents (all) > Anti-inflammatory agents		41
Antitumor agents (all) > Antitumor agents		169
Natural products MD pharmaceutical		108

▼ Target Indicators <small>NEW</small>		References
Cytokines (all) >> Chemokines		13
Cytokines (all) >> Tumor necrosis factors		11
DNA-binding proteins (all) >>> Transcription factor NF-κB		21
Enzymes (all) >>>> Adenosine triphosphatase		15
Enzymes (all) >>> 26S proteasome		15
Enzymes (all) >>>>>> Src kinase		13
Glycoproteins (all) >> P-glycoproteins		15
Hemoproteins (all) >>> Cytochrome P 450		12
Hemoproteins (all) >>> Cytochrome P 450 3A4		12
Phosphoproteins (all) >> P-glycoproteins		15
Proteins		19
Receptors (all) > Toll-like receptors		13
RNA formation factors (all) >>>		21
Transcription factor NF-κB		
Transport proteins (all) >> P-glycoproteins		15
Transport proteins (all) >> P-glycoproteins		15

物质的生物活性和靶点信息，
直接点击，获得相关文献



Explore ▼

Saved Searches ▼

SciPlanner

Preferences | SciFinder Help ▼ Sign Out

Welcome Sam Yu

Save Print Export

Substance Identifier "qinghaosu" > substances (1) > 63968-64-9 > get references (24)

REFERENCES ⓘ

Get Substances

Get Reactions

Get Related Citations

Get Full Text

Tools ▼

Create Keep Me Posted Alert

Send to SciPlanner

Analyze

Refine

Categorize

Sort by: Accession Number ▼

Answers per Page [20] Display: — — —

0 of 24 References Selected

Analyze by: ⓘ

Author Name ▼

Hyde Roderick A 13

Malaska Stephen L 13

Sweeney Elizabeth A 13

Wood Lowell L Jr 12

Paris Daniel 3

Bakshi Pancham 2

Mullan Michael J 2

Ait Ghezala Ghania 1

...

1. **Enhanced IL-12p40 production in LPS-stimulated macrophages by inhibiting JNK activation by artemisinin** ⓘ Full Text

By Cho, Young-Chang; Lee, Sung Ho; Lee, Mina; Kim, Hyun Jung; Oak, Min-ho; Lee, Ik-Soo; Kang, Bok Yun
From Archives of Pharmacal Research (2012), 35(11), 1961-1968. | Language: English, Database: CAPLUS

Artemisinin can be isolated from *Artemisia annua* L. In addn. to its well-known anti-malarial activity, artemisinin has antitumor and anti-microbial effects. In this study, we investigated the effect of artemisinin on the prodn. of IL-12p40, which is important in the generation of T helper 1 responses. Artemisinin significantly induced IL-12p40 prodn. in LPS-stimulated RAW264.7 macrophage cells. To elucidate the signaling mols. regulated by artemisinin in induced IL-12p40 prodn., the DNA-binding activity of several transcription factors and activation of mitogen-activated protein kinase (MA...

2. **Artemisinin attenuates post-infarct myocardial remodelling by down-regulating the NF-κB pathway** ⓘ Full Text

By Gu, Yongwei; Wang, Xi; Wang, Xin; Yuan, Mingjie; Wu, Gang; Hu, Juan; Tang, Yanhong; Huang, Congxin
From Tohoku Journal of Experimental Medicine (2012), 227(3), 161-170. | Language: English, Database: CAPLUS

Myocardial infarction (MI) leads to progressive left ventricular (LV) dilatation and is assoc. with interstitial fibrosis in the non-infarcted myocardium. The NF-κB signaling pathway plays an important role in ventricular remodeling after MI. Recent studies have indicated that the anti-malarial agent artemisinin can inhibit NF-κB activation, which may attenuate post-infarct myocardial remodeling. In this study, we investigated the effect of artemisinin on post-infarct myocardial remodeling using a rat model of MI. Adult male Sprague Dawley rats were divided into a sham group (n = 10) and ...

Substance Detail—查看物质详细信息

Predicted Properties: Biological Chemical Density **Lipinski** and Related Spectra Structure-related Thermal

Biological Properties	Value	Condition	Note	Top
Bioconcentration Factor	31.2	pH 1 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 2 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 3 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 4 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 5 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 6 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 7 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 8 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 9 Temp: 25 °C	(26)	
Bioconcentration Factor	31.2	pH 10 Temp: 25 °C	(26)	

Lipinski and Related Properties	Value	Condition	Note	Top
Freely Rotatable Bonds	0		(26)	
H Acceptors	5		(26)	
H Donors	0		(26)	
H Donor/Acceptor Sum	5		(26)	
logP	2.269±0.680	Temp: 25 °C	(26)	
Molecular Weight	282.33		(26)	
Spectra Properties	Value	Condition	Note	Top
Carbon-13 NMR Spectrum	See spectrum		(27)	
Proton NMR Spectrum	See spectrum		(27)	

Substance Detail—查看物质详细信息

Experimental Properties: Biological Chemical Density Flow and Diffusion Lipinski and Related Optical and Scattering Spectra Structure-related Thermal

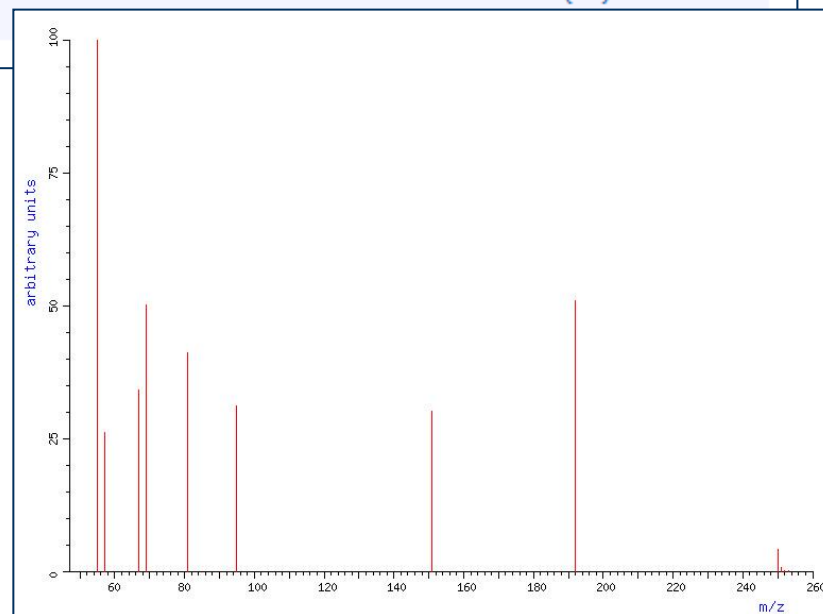
Biological Properties	Value	Condition	Note	Top
ADME (Absorption, Distribution, Metabolism, Excretion)	See full text		(1)CAS	
Half-Life (Biological)	See full text	1 of 2	(9)CAS	
Median Lethal Dose(LD50)	5576 mg/kg	Organism: rat Route: oral	(14)APC	
Median Lethal Dose(LD50)	5105 mg/kg	Organism: mouse Route: oral	(14)APC	
Median Lethal Dose(LD50)	2800 mg/kg	Organism: mouse Route: intramuscular	(14)APC	
Median Lethal Dose(LD50)	2571 mg/kg	Organism: rat Route: intramuscular	(14)APC	
Median Lethal Dose(LD50)	1558 mg/kg	Organism: mouse Route: intraperitoneal	(14)APC	
Minimum Inhibitory Concentration	See full text	1 of 2	(18)CAS	

Lipinski and Related Properties	Value	Condition	Note	Top
logP	See full text	1 of 2	(12)CAS	
Optical and Scattering Properties	Value	Condition	Note	Top
Optical Rotatory Power	+87.9 °	Solv: 1,4-dioxane (123-91-1); Wavlen: 589.3 nm	(20)CAS	
Optical Rotatory Power	+75-+78 °	Conc: 1.0 g/100mL; Solv: ethanol (64-17-5); Wavlen: 589.3 nm; Temp: 20 °C	(12)CAS	
Optical Rotatory Power	+68.2 °	Conc: 0.97 g/100mL; Solv: chloroform (67-66-3); Temp: 25 °C	(16)IC	

Substance Detail—查看物质详细信息

Spectra Properties	Value	Condition	Note	Top
Carbon-13 NMR Spectrum	See full text	1 of 8	(3)CAS	
Circular Dichroism Spectrum	See full text	1 of 2	(4)IC	
IR Absorption Spectrum	See full text	1 of 11	(11)CAS	
Mass Spectrum	See spectrum		(13)WSS	
Mass Spectrum	See spectrum		(13)WSS	
Mass Spectrum	See full text	1 of 10	(1)CAS	
Proton NMR Spectrum	See full text	1 of 10	(15)CAS	
Raman Spectrum	See full text	1 of 2	(5)CAS	
Two-Dimensional NMR Spectrum	See full text	1 of 2	(24)CAS	
UV and Visible Absorption Spectrum	See full text		(22)CAS	
UV and Visible Emission/Luminescence Spectrum	See full text		(25)CAS	

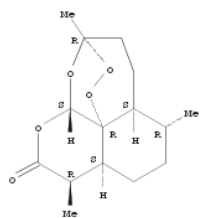
物质的实验谱图



物质有关的反应

1. Substance Detail
63968-64-9

~3242



Absolute stereochemistry.

C₁₅ H₂₂ O₅
3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one, octahydro-3,6,9-trimethyl-, (3R,5aS,6R,8aS,9R,12S,12aR)-

Get Reactions

Limit results by reaction role:

☒ Product

☐ Reactant

☐ Reagent

☐ Reactant or reagent

☐ Catalyst

☐ Solvent

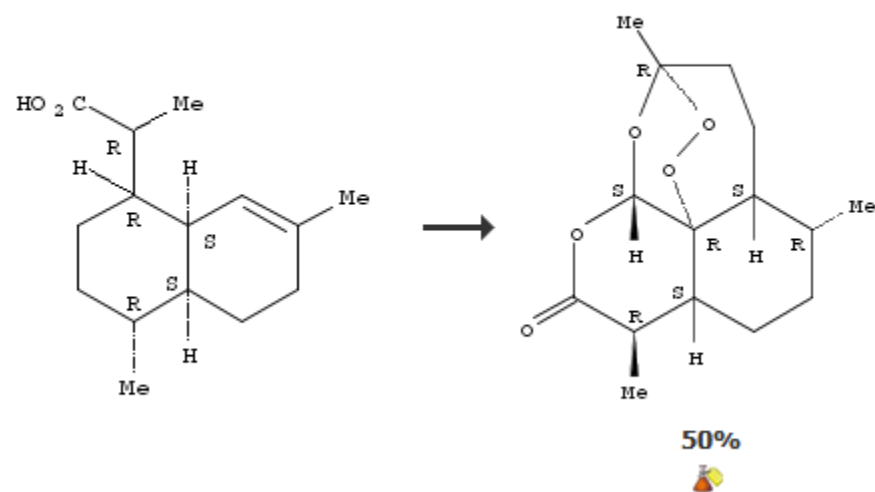
☐ Any role

Get

Cancel

1. View Reaction Detail Similar Reactions

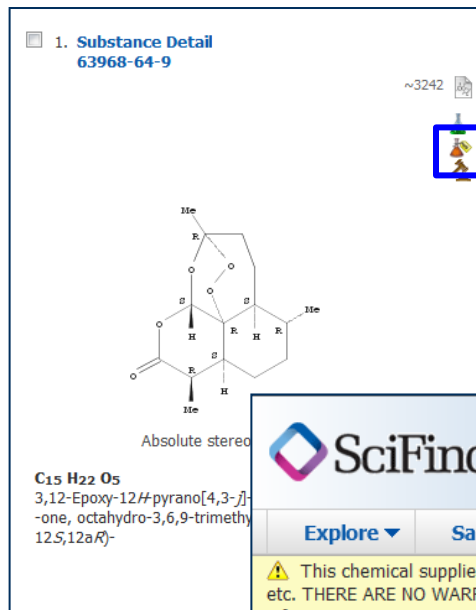
Single Step *Hover over any structure for more options.*



► Overview

物质有关的商业来源

可以直接**Export**到**Excel**中，又或者使用分析工具，对商业信息进行处理



SciFinder®

Preferences | SciFinder Help | [Sign Out](#)

Welcome Sam Yu

[Explore](#) [Saved Searches](#) [SciPlanner](#) [Print](#) [Export](#)

⚠ This chemical supplier information is provided on an "as is" basis. Please consult the suppliers for current information regarding pricing, regional availability, available quantities, purities, etc. THERE ARE NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED. ACS is not liable for any loss of profit, goodwill or any other damages arising out of the use of this information.

Substance Identifier "qinghaosu" > substances (1) > 63968-64-9 > **commercial sources (91)**

COMMERCIAL SOURCES ?

Analyze

Sort by: Catalog Name ↑

0 of 91 Commercial Sources Selected

Answers per Page [20]

Analyze by: ?

Catalog Name

Accel Pharmtech
Product List 2

AK Scientific Product
Catalog 2

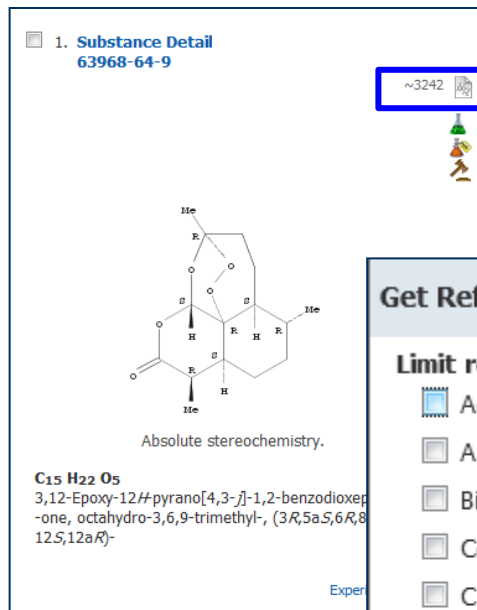
Chemieliva
Pharmaceutical
Product List 2

ChemPacific Product

1. **3B Scientific Corporation Product List**
Supplier Name: 3B Scientific Corporation, Catalog Publication Date: 12 Jul 2012
Order Number: 382-3802
Quantity: 1g
63968-64-9 Artemisinin
[Link](#)

2. **A Chemtek Product List**
Supplier Name: A Chemtek, Catalog Publication Date: 13 Mar 2013
Order Number: 031-18967
Quantity: N/A
63968-64-9 Artemisinin

物质有关的文献信息



一键获得文献，可以获得全部，也可以勾选特别感兴趣的内容，不勾选，默认获得全部

Get References

Limit results to:

<input checked="" type="checkbox"/> Adverse Effect, including toxicity	<input type="checkbox"/> Prophetics in Patents
<input type="checkbox"/> Analytical Study	<input type="checkbox"/> Preparation
<input type="checkbox"/> Biological Study	<input type="checkbox"/> Process
<input type="checkbox"/> Combinatorial Study	<input type="checkbox"/> Properties
<input type="checkbox"/> Crystal Structure	<input type="checkbox"/> Reactant or Reagent
<input type="checkbox"/> Formation, nonpreparative	<input type="checkbox"/> Spectral Properties
<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Uses
<input type="checkbox"/> Occurrence	

For each sequence, retrieve:

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

Get **Cancel**

SciFinder中的物质检索方法

■ 功能方面

- 物质名称, CAS No
- 分子式
- 结构式
- 理化性质

■ 推荐的物质检索功能

- 有机物, 天然产物及衍生物
- 无机物
- 高分子化合物

---结构比较方便

---分子式比较方便


---首先分子式, 其次结构

物质名称检索

The screenshot displays the SciFinder web application. At the top, the SciFinder logo is visible. Below the logo, there are navigation tabs: 'Explore', 'Saved Searches', and 'SciPlanner'. The 'Explore' tab is selected. The breadcrumb trail indicates the search path: 'Substance Identifier "qinghaosu" > substances (1) > 63968-64-9 > commercial sources (91)'. On the left side, there is a sidebar with three main categories: 'REFERENCES', 'SUBSTANCES', and 'REACTIONS'. Under 'SUBSTANCES', the 'Substance Identifier' option is highlighted. The main search area is titled 'SUBSTANCES: SUBSTANCE IDENTIFIER'. It features a text input field containing 'qinghaosu'. Below the input field, there is a note: 'Enter one per line. Examples: 50-00-0, 999815, Acetaminophen'. A blue 'Search' button is located below the input field. A black arrow points from the bottom right towards the input field.


直接输入物质的名称，**CAS No**，俗名，都能检索，一次最多检索**25**个物质，用换行换开

理化性质检索


Preferences

Explore ▾ Saved Searches ▾ SciPlanner


Reaction Structure structure variable only at spe... > reactions (1122) > keep analysis "Reagent" (242)

 **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: PROPERTY ?

Select the category and enter an appropriate value or range.

☒ Experimental

Value or Range

Select Property... ▾

Value or Range

Select Property...

Examples: Individual value as 44,
range as 25-35, or open ended
range as >125 or <125

Boiling Point (°C)

Value or Range

Density (g/cm³)

Value or Range

Electric Conductance (S)

Value or Range

Electric Conductivity (S/cm)

Value or Range

Electric Resistance (ohm)

Value or Range

Electric Resistivity (ohm*cm)

Value or Range

Glass Transition Temp. (°C)

Value or Range

Magnetic Moment (μB)

Value or Range

Median Lethal Dose (LD50) (mg/kg)

Value or Range

Melting Point (°C)

Value or Range

Optical Rotatory Power (degrees)

Value or Range

Refractive Index

Value or Range

Tensile Strength (MPa)

Value or Range

CAS is a division of the American Chemical Society.

41

Copyright 2011 American Chemical Society. All rights reserved.

分子式检索

SciFinder®

Explore ▾ Saved Searches ▾ SciPlanner

Substance Identifier "qinghaosu" > substances (1) > 63968-64-9 > commercial sources (91)

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: MOLECULAR FORMULA

(C3 H6 O. C2 H4 O)x

Examples:
H4SiO4
(C3H6O.C2H4O)x

Search

分子式的检索，根据hill排序规则书写，**C,H**写在前面，其他元素按照字母顺序写

分子式检索

■ 多组分物质

- 包含盐，水合物，合金，混合物等
- 用 “.” 将不同组分点开

■ Hill排序

— 单一组分物质

- 对于不含**C**的物质，按照字母顺序排序
- 对于含**C**的物质，**CH**写在前面，其他的按照字母顺序排列
- 相邻的两个元素之间必须有区分号，即数字或者空格，倘若数字为1，那么可以用空格来区分
- 区分大小写

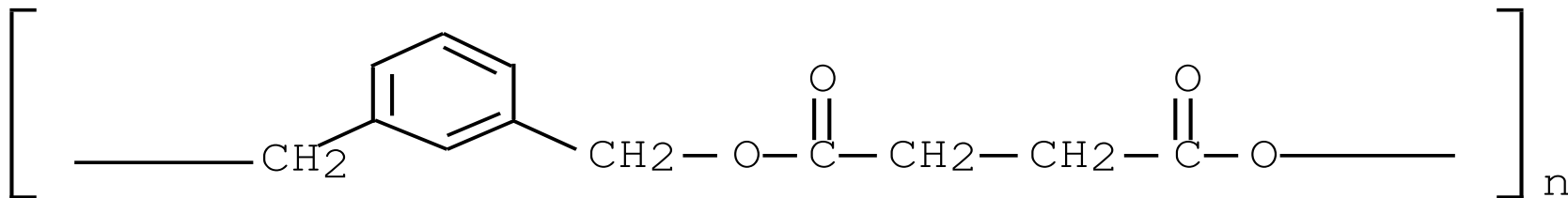
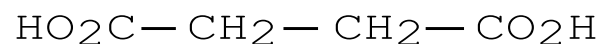
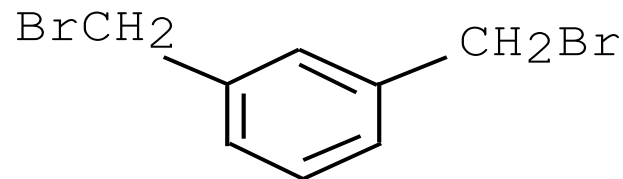
— 多组分物质

- 每一组分必须遵照单一组分物质的分子式来书写。
- 不同组分之间的排序按照各组分的首元素的字母顺序排序，但是含**C**组分的一定排在不含**C**的组分前面。
- 倘若不同组分的首元素相同，则看元素数量多少，数量多的排在前面，若元素数量一样，则按次元素的顺序排列。

聚合物

■ 聚合物

- 用括号，表示聚合物
- 只知道起始原料的聚合物，X表示
- 知道最终的SRU片段的，N表示



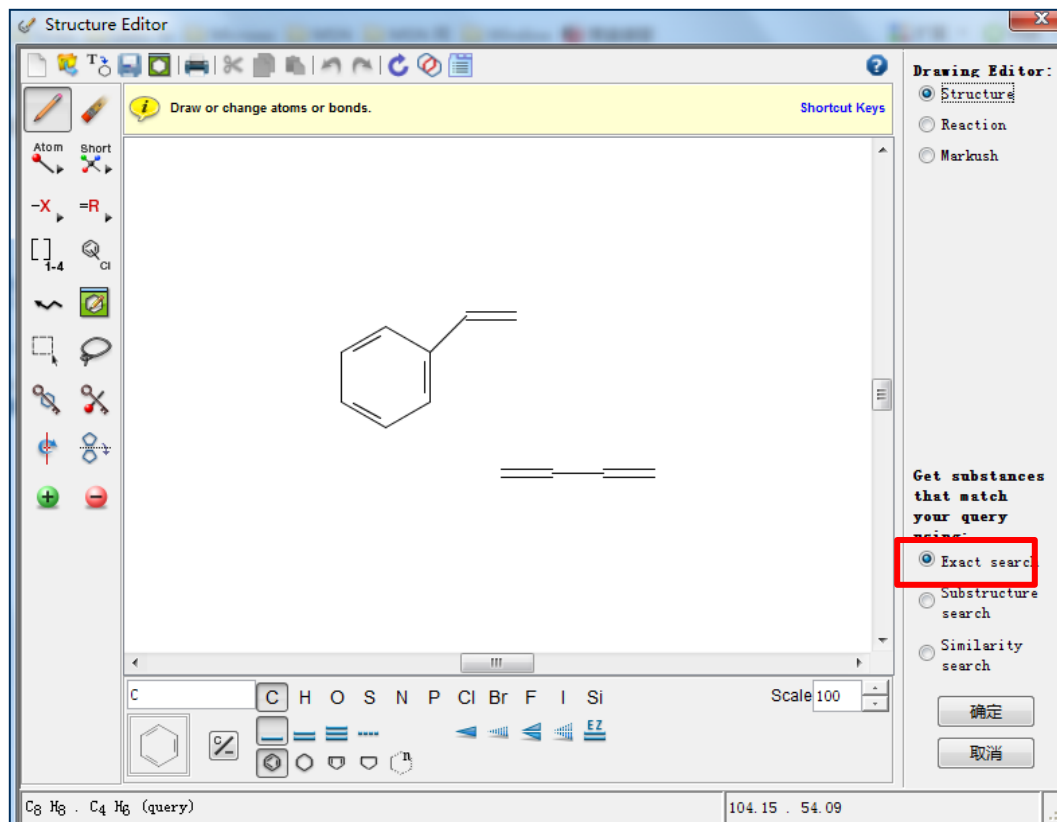
结构式检索—精确检索

The screenshot displays the SciFinder web application. At the top, the SciFinder logo is visible. Below it, navigation tabs include 'Explore', 'Saved Searches', and 'SciPlanner'. The main content area shows a search path: 'Molecular Formula "(C8 H8 . C4 H6)x" > substances (37) > 869196-18-9'. On the left sidebar, under the 'SUBSTANCES' section, the 'Chemical Structure' option is highlighted with a red rectangle. Other options in this section include 'Markush', 'Molecular Formula', 'Property', and 'Substance Identifier'. The main panel, titled 'SUBSTANCES: CHEMICAL STRUCTURE', contains a message 'The CAS structure editor is loading.' with a small image of the editor interface. To the right, there are search type options: 'Exact Structure', 'Substructure' (selected), and 'Similarity'. A checkbox for 'Show precision analysis' is also present. At the bottom of the main panel, there is an 'Import CFX' link and a large blue 'Search' button.

需要安装**Java**插件，才能启动结构面板

知道起始原料的聚合物检索

- 检索由1,3-丁二烯 ($\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2$) 和苯乙烯 ($\text{C}_6\text{H}_5\text{C}_2\text{H}_3$) 聚合产生的聚合物
- 只绘制单体，精确结构



使用精确结构检索

结构检索界面

Chemical Structure exact with limiters > substances (27)

REFERENCES

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

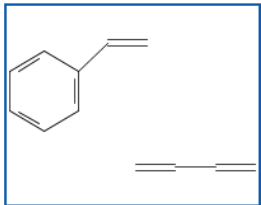
SUBSTANCES

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

REACTIONS

- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE



Click image to change structure or view detail.

Import CXF

Search Type:

- ☒ Exact Structure
- ☐ Substructure
- ☐ Similarity

☐ Show precision analysis

Search

☒ Advanced Search ☐ Always Show

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

结构检索聚合物需要做的选项：

1: 单一组分

2: 聚合物检索

检索结果页面

Chemical Structure exact with limiters > substances (27)

SUBSTANCES

Get References Get Reactions Get Commercial Sources Tools

Create Keep Me Posted Alert Send to SciPlanr

Analyze Refine

Sort by: CAS Registry Number

Answers per Page [15] View:

0 of 27 Substances Selected

Analyze by:

Substance Role

Properties 21

Preparation 10

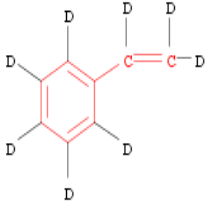
1. Substance Detail 1196999-06-0

2. Substance Detail 1012312-98-9

3. Substance Detail 873195-13-2

1. Substance Detail 1196999-06-0

19361-62-7
C8 D8



106-99-0
C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

(C8 D8 . C4 H6)x
Benzene-1,2,3,4,5,6-(ethenyl-1,2,2-d5), polymer with 1,3-butadiene diblock

8. Substance Detail 825620-39-1

106-99-0
C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

100-42-5
C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

(C8 H8 . C4 H6)x
Benzene, ethenyl-, polymer with 1,3-butadiene, diblock, graft (9CI)

4. Substance Detail 869196-18-9

106-99-0
C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

100-42-5
C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

(C8 H8 . C4 H6)x
Benzene, ethenyl-, polymer with 1,3-butadiene, graft, triblock

27. Substance Detail 9003-55-8

106-99-0
C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

100-42-5
C8 H8

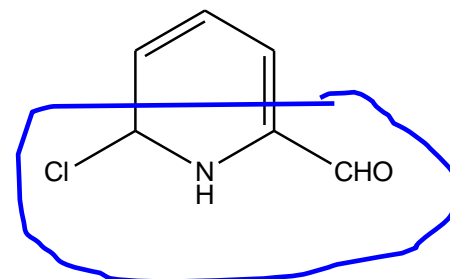
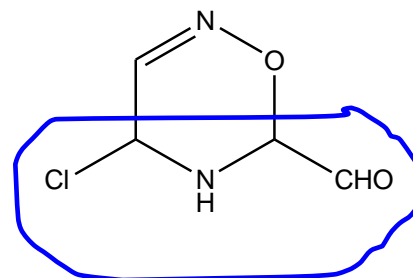
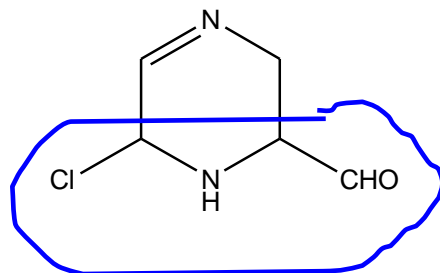
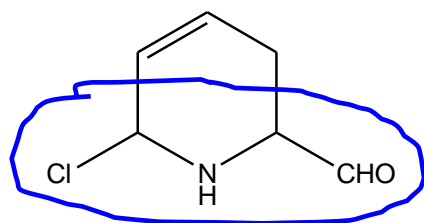
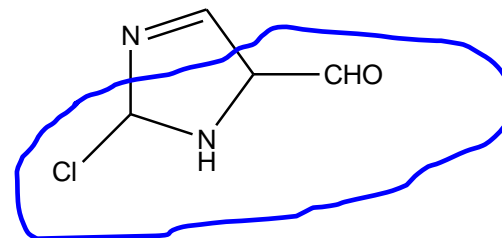
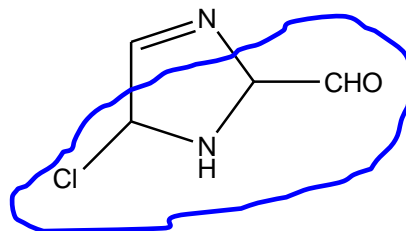
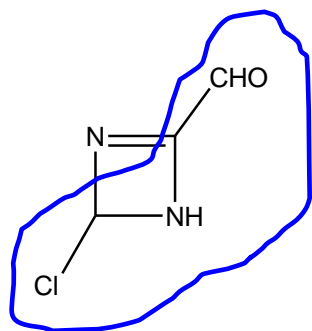
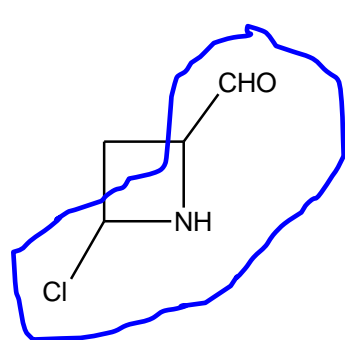
$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

(C8 H8 . C4 H6)x
Benzene, ethenyl-, polymer with 1,3-butadiene

Spectra
Experimental Properties

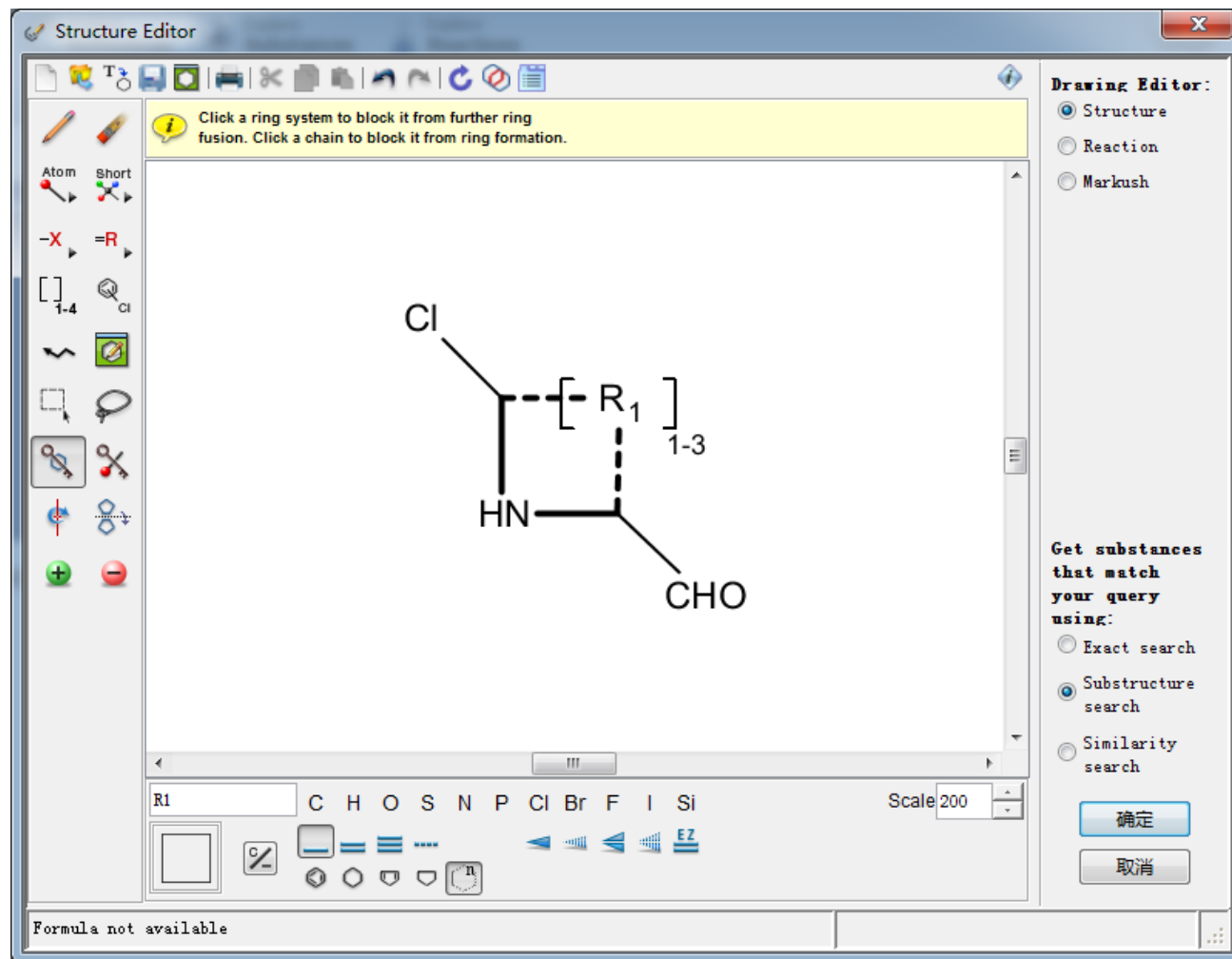
看名字的区别Triblock, Graft, Diblock, 无序

我想获得以下的一系列物质



.....

结构定义



用亚结构检索获得所有的物质

亚结构检索结果

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Sam Yu

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Chemical Structure substructure > substances (469)

SUBSTANCES ? Get References Get Reactions Get Commercial Sources Tools ▾ Create Keep Me Posted Alert Send to SciPlanner

Analyze Refine

Sort by: Number of References ▾

Answers per Page [50] View: ||| ||| |||

0 of 469 Substances Selected

Page: 1 of 10

Analyze by: ?

Substance Role ▾

Preparation 155

Reactant or Reagent 123

Biological Study 15

Uses 11

Prophetic in Patents 8

Properties 6

Formation, Nonpreparative 2

Analytical Study 1

1. Substance Detail 54087-03-5 ~33

Clc1cccc(C=O)n1

C₆ H₄ Cl N O

2. Substance Detail 1757-28-4 ~19

Clc1cc(C=O)c[nH]1

C₅ H₄ Cl N O
1H-Pyrrole-2-carboxaldehyde, 5-chloro-

Experimental Properties

3. Substance Detail 81293-97-2 ~11

Clc1c(C=O)c[nH]c1Cl

C₄ H₂ Cl₂ N₂ O
1H-Imidazole-2-carboxaldehyde, 4,5-dichloro-

提纲

- 介绍

- SciFinder Web新界面

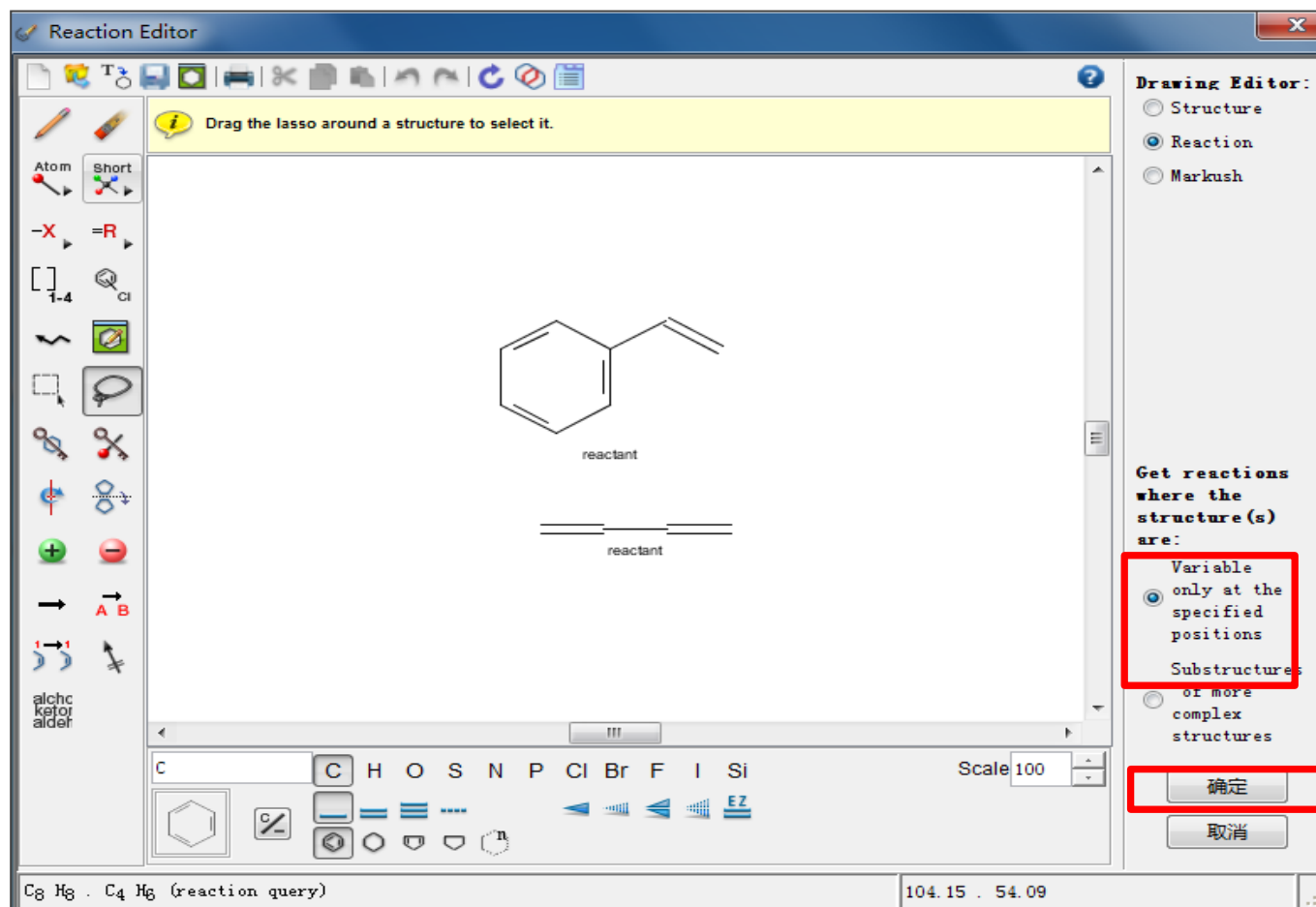
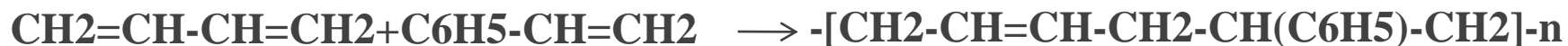
- **SciFinder Web中的检索**

- SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索

- **SciFinder Web的注册和常见问题**

聚合物化学反应检索

聚合反应：



1,变化只适用于指定的结构的位置

2复杂结构中的亚结构

检索页面以及结果

Explore ▾ Saved Searches ▾ SciPlanner

Reaction Structure structure variable only at spe... > reactions (896)

REFERENCES

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

SUBSTANCES

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

REACTIONS

- Reaction Structure

REACTIONS: REACTION STRUCTURE

Search Type:

- ☒ Allow variability only as specified
- ☐ Substructure

Click image to change structure

Reaction Structure structure variable only at spe... > reactions (896)

REACTANTS:

Reactant 1:

Reactant 2:

Get References Tools ▾

Analyze Refine

Analyze by: Catalyst

Catalyst	Count
75980-60-8	154
947-19-3	154
4-MeOC ₆ H ₄ OH	144
Bu ₄ N ⁺ F ⁻	131
BuLi	131
t-Dodecylthiol	99
TMEDA	87
K ₂ (S ₂ O ₈)	72
Cumene hydroperoxide	45

Group by: No Grouping Sort by: Relevance

0 of 896 Reactions Selected

1. View Reaction Detail Link

Single Step Hover over any structure for more options.

Reaction products with silane modifying ag 100%

Overview

Steps/Stages

1.1 C:BuLi, C:89686-69-1, S:Cyclohexane, 1.5 h, 50°C

Notes

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

References

Abrasion-resistant tires containing silica with improved dispersibility By Sasaka, Takahiro From Jpn. Kokai Tokkyo Koho, 2010189613, 02 Sep 2010

按照文献出处分类显示

Analyze Refine Group by: Document Sort by: Relevance Answers per Page [15] Display: [icon]

0 of 896 Reactions Selected

1. View Reaction Detail Link

Single Step Hover over any structure for more options.

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$ + $\text{H}_2\text{C}=\text{CH}-\text{Ph}$ → reaction products with silane modifying ag 100%

polymers polymers

Overview

Steps/Stages

1.1 C:BuLi, C:89686-69-1, S:Cyclohex 1.5 h, 50°C

Notes

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

我们获得896条反应

反应筛选的第一步是
Group By Document, 让
一篇文章出现一条反应

REACTIONS Get References Tools Send to SciPlanner

Analyze Refine Group by: Document Sort by: Relevance Answers per Page [15] Display: [icon]

0 of 896 Reactions Selected

1. Abrasion-resistant tires containing silica with improved dispersibility Full Text

1 Reaction

Single Step Hover over any structure for more options.

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$ + $\text{H}_2\text{C}=\text{CH}-\text{Ph}$ → reaction products with silane modifying ag 100%

polymers polymers

Overview

Steps/Stages

1.1 C:BuLi, C:89686-69-1, S:Cyclohexane, 1.5 h, 50°C

Notes

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

References

Abrasion-resistant tires containing silica with improved dispersibility Full Text

By Sasaki, Takahiro

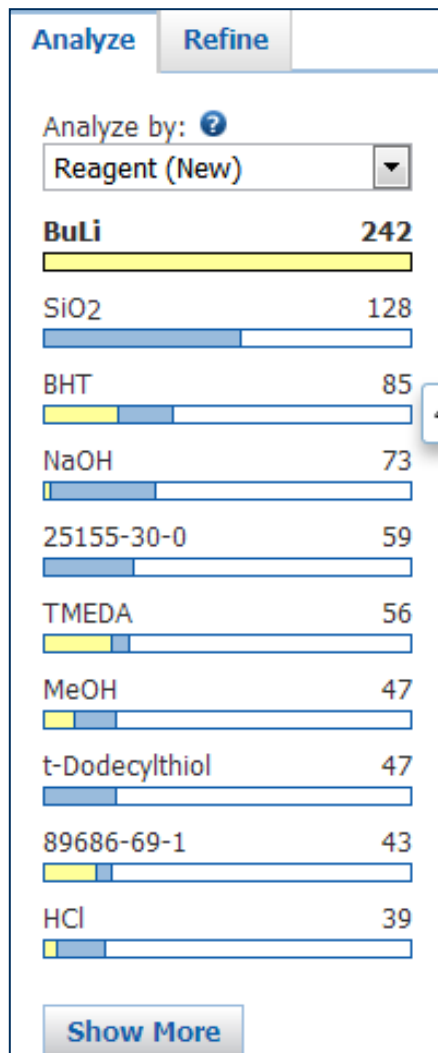
按照反应类型分类显示

The screenshot displays the SciFinder web interface. At the top, the SciFinder logo is on the left, and navigation links for 'Preferences', 'SciFinder Help', and 'Sign Out' are on the right. Below the header, a navigation bar includes 'Explore', 'Saved Searches', and 'SciPlanner'. The main content area shows a search for 'reactions (1122)'. On the left, there is an 'Analyze' sidebar with a 'Reagent (New)' dropdown and a list of reagents with their counts: BuLi (242), SiO2 (128), BHT (85), NaOH (73), 25155-30-0 (59), TMEDA (56), MeOH (47), t-Dodecylthiol (47), and 89686-69-1 (43). The main results area is titled 'REACTIONS' and includes buttons for 'Get References' and 'Tools'. The results are grouped by 'Transformation' (highlighted in a red box in the 'Group by' dropdown) and sorted by 'Frequency'. Two reaction types are listed: 1. Diels-Alder Reaction and Retro-Diels-Alder Reaction (2 Reactions), and 2. Addition of Alkenes/ Alkynes to Alkenes/ Alkynes/ Nazarov Cyclization (1 Reaction). Chemical structures are shown for each reaction type.

Transformation 帮助我们判断大部分的研究人员采用哪种合成方法

按照试剂进行分析

有242篇文献都用的是BuLi这个试剂



Get References Tools ▼

Group by: No Grouping Sort by: Accession Number ▼

Answers per Page [15] Display:

0 of 242 Reactions Selected

1. [View Reaction Detail](#) [Link](#)

Single Step *Hover over any structure for more options.*

$$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{H}_2\text{C}=\text{CH}-\text{Ph} \longrightarrow \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{H}_2\text{C}=\text{CH}-\text{Ph}$$

[Overview](#)

2. [View Reaction Detail](#) [Link](#)

Single Step *Hover over any structure for more options.*

$$\text{H}_2\text{C}=\text{CH}-\text{Ph} + \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 \longrightarrow \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{H}_2\text{C}=\text{CH}-\text{Ph}$$

reaction products

[Overview](#)

按照实验过程进行排序

Reaction Structure structure variable only at spe... > reactions (896)

REACTIONS ? Get References Tools Send to SciPlanner

Analyze Refine Group by: Document Sort: **Experimental Procedure** Answers per Page [15] Display: ⌂ ⌂

Analyze by: ? Catalyst

75980-60-8	154
947-19-3	154
4-MeOC ₆ H ₄ OH	144
Bu ₄ N ⁺ • F ⁻	131
BuLi	131
t-Dodecylthiol	99
TMEDA	87
K ₂ (S ₂ O ₈)	72
Cumene hydroperoxide	45
FeSO ₄	43

0 of 896 Reactions Selected

1. Process for producing hydro...
2 Reactions

Single Step *Hover over any structure for more options.*

$$\text{H}_2\text{C}=\text{CH}-\text{Ph} + \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{C}_6\text{H}_6 \rightarrow \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + \text{H}_2\text{C}=\text{CH}-\text{Ph}$$

 hydrogenated

2 [D1-CH=CH₂]

[Overview](#)
[Experimental Procedure](#)

Styrene (~10%) was polymerized in a clean, oxygen and moisture free reactor at about 10% concentration and 30-70°C in a cyclohexane solvent using n-butyl lithium as the catalyst; after about 20 minutes, butadiene (~90%) is added to the reactor, in the presence of tetrahydrofuran as a modifier to control the amount of 1,2 vs 1,4 polymerization of butadiene. Further polymerization is completed in about 20 minutes. Next, divinyl benzene is added to the reactor in order to couple the polymers into a star structure. This takes about 60 minutes. Finally, tert-butanol is added to the reactants to neutralize any remaining active centers so that no further chain growth can take place. The star polymer solution is then hydrogenated using a titanium catalyst at 120°C, wherein a 99+% degree of hydrogenation is achieved. The hydrogenated styrene-butadiene block star polymer is then recovered from the solution through a series of steam stripping, extrusion and drying steps. Product.

导航条

SciFinder®

Preferences | SciFinder Help | Sign Out

Welcome Della L

Explore ▾ Saved Searches ▾ SciPlanner Save Print Export

Reaction Structure structure variable only at spe... > reactions (896)

REACTIONS ? Get References Tools ▾ Send to SciPlanner

Analyze Refine

Group by: Document ▾ Sort by: Experimental Procedure ▾ ↑

Answers per Page [15] Display: [] []

0 of 896 Reactions Selected

1. Process for producing hydrogenated styrene-butadiene star copolymers for use as viscosity improvers in lubricating oils Full Text

2 Reactions

Single Step Hover over any structure for more options.

$$\begin{array}{c}
 \text{H}_2\text{C}=\text{CH}-\text{Ph} \\
 \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 \\
 \text{Ph} \\
 2 \left[\text{Dl}-\text{CH}=\text{CH}_2 \right]
 \end{array}
 +
 +
 \xrightarrow{\hspace{1cm}}
 \begin{array}{c}
 \text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 \\
 \text{H}_2\text{C}=\text{CH}-\text{Ph}
 \end{array}$$

hydrogenated

Analyze by: Catalyst ▾

75980-60-8	154
947-19-3	154
4-MeOC ₆ H ₄ OH	144
Bu ₄ N ⁺ • F ⁻	131
BuLi	131
t-Dodecylthiol	99
TMEDA	87
K ₂ (S ₂ O ₈)	72

提纲

- 介绍

- SciFinder Web新界面

- **SciFinder Web中的检索**

- SciFinder中的文献检索
 - SciFinder中的结构面板使用技巧
 - SciFinder中的物质结果及物质检索方法
 - SciFinder中的反应检索

- **SciFinder Web的注册和常见问题**

SciFinder Web的注册和登陆

SciFinder Web的系统要求

Windows用户支持IE 7.x或者FireFox 2.x

Mac 用户支持 Firefox 和 Safari

Java 安装（初次使用结构时自动安装，建议安装Java 6）

在图书馆相关页面上找到SciFinder Web注册用的网址

点击URL创建SciFinder Web账号



Welcome to User Registration for SciFinder®!

Would you like to:

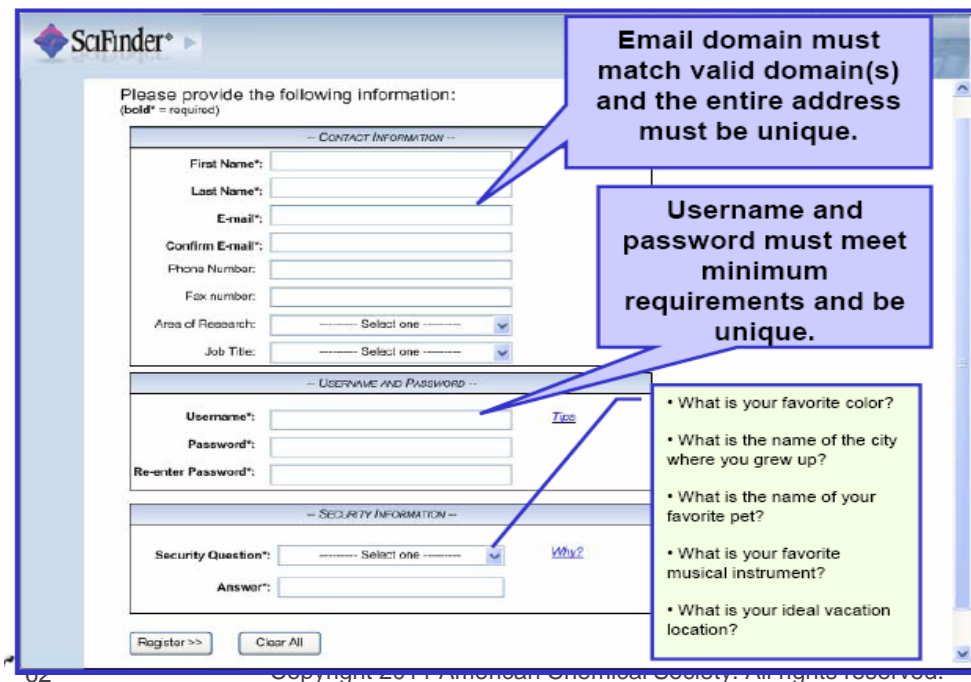
☒ Create a new username and password?

☐ Use an existing username and password? [Examples](#)

[Next >>](#)

开始创建SciFinder Web帐号

创建ID所用的IP不能是代理服务
器的IP



Please provide the following information:
(bold* = required)

— CONTACT INFORMATION —

First Name*:

Last Name*:

E-mail*:

Confirm E-mail*:

Phone Number:

Fax number:

Area of Research: Select one

Job Title: Select one

— USERNAME AND PASSWORD —

Username*:

Password*:

Re-enter Password*:

— SECURITY INFORMATION —

Security Question*: Select one

Answer:

[Why?](#)

[Register >>](#) [Clear All](#)

Email domain must match valid domain(s) and the entire address must be unique.

Username and password must meet minimum requirements and be unique.

- What is your favorite color?
- What is the name of the city where you grew up?
- What is the name of your favorite pet?
- What is your favorite musical instrument?
- What is your ideal vacation location?

设置用户名及密码注意事项

用户名：

必须是唯一的，且包含 **5-15** 个字符。它可以只包含字母或字母组合、数字和/或以下特殊字符：

- （破折号）
- _ （下划线）
- . （句点）
- @ （表示“at”的符号）

密码：

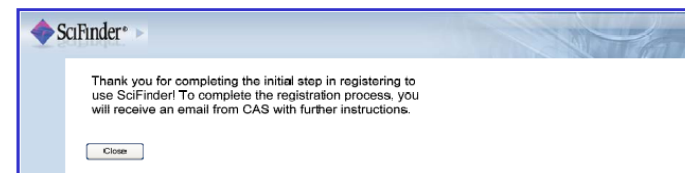
必须包含 **7-15** 个字符，并且至少包含三个以下字符：

- 字母
- 混合的大小写字母
- 数字
- 非字母数字的字符（例如 @、#、%、&、*）

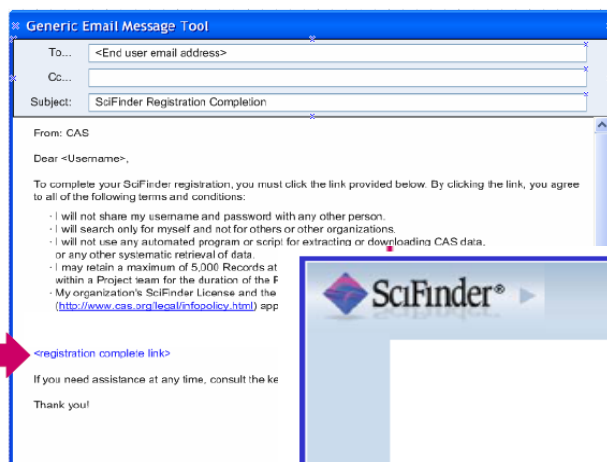
密码设置小技巧：

- 1：不要和账号中有重复的字符**
- 2：密码格式最好是abc@123**

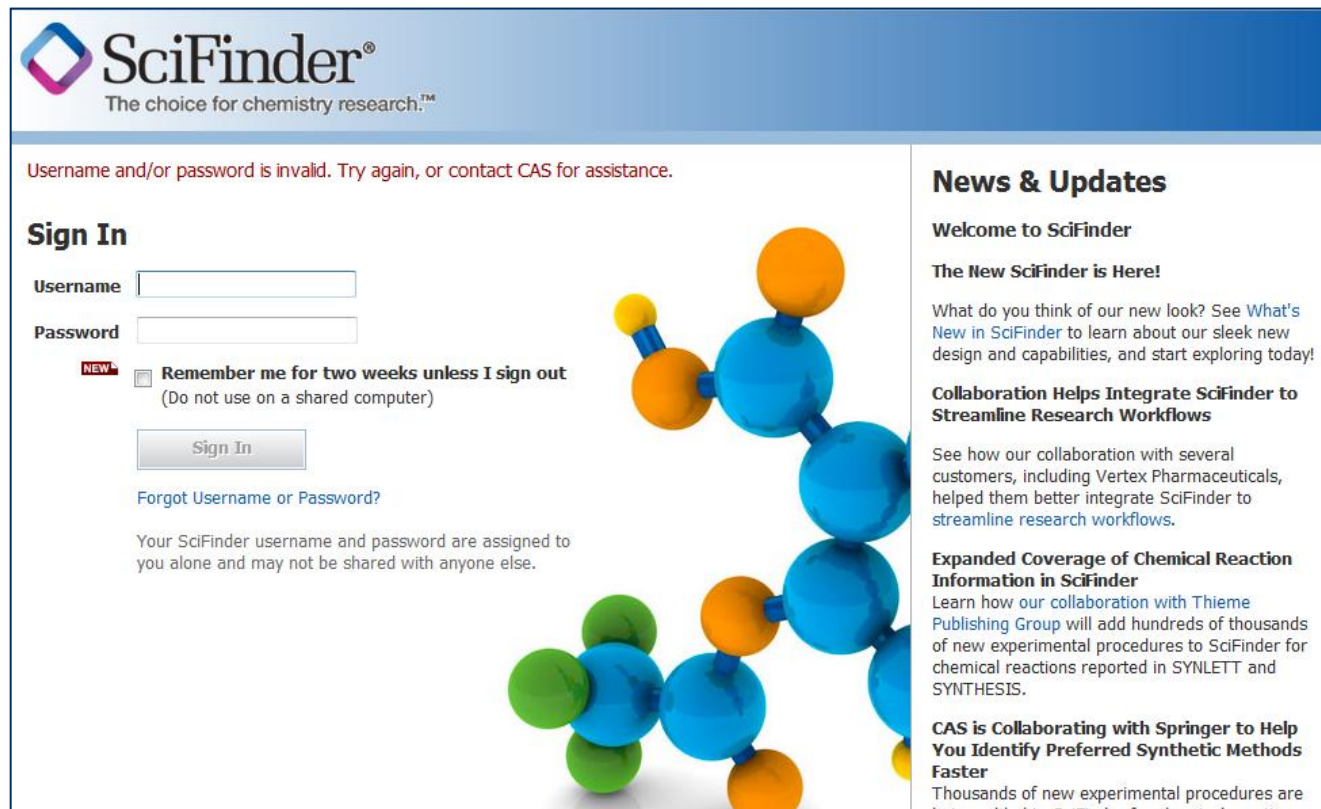
对新ID的Email确认



需要点击邮件中的确认链接



SciFinder Web 常见问题



SciFinder®
The choice for chemistry research.™

Username and/or password is invalid. Try again, or contact CAS for assistance.

Sign In

Username

Password

NEW ☐ Remember me for two weeks unless I sign out
(Do not use on a shared computer)

[Forgot Username or Password?](#)

Your SciFinder username and password are assigned to you alone and may not be shared with anyone else.

News & Updates

Welcome to SciFinder

The New SciFinder is Here!

What do you think of our new look? See [What's New in SciFinder](#) to learn about our sleek new design and capabilities, and start exploring today!

Collaboration Helps Integrate SciFinder to Streamline Research Workflows

See how our collaboration with several customers, including Vertex Pharmaceuticals, helped them better integrate SciFinder to [streamline research workflows](#).

Expanded Coverage of Chemical Reaction Information in SciFinder

Learn how our [collaboration with Thieme Publishing Group](#) will add hundreds of thousands of new experimental procedures to SciFinder for chemical reactions reported in SYNLETT and SYNTHESIS.

CAS is Collaborating with Springer to Help You Identify Preferred Synthetic Methods Faster

Thousands of new experimental procedures are [being added to SciFinder for chemical reactions](#).

账号或密码错误，请在username处填写，截图，并与图书馆联系

SciFinder Web 常见问题

任何需要反馈给图书馆的问题，都请点击测试IP地址的链接

<http://www.cas.org/cgi-bin/casip>



Your IP address comes across to CAS as: 210.32.9.45

将页面截图下来，一并发给图书馆

SciFinder Web网络在线资源平台

www.igroup.com.cn/cas



资源下载: **PDF文件**

在线演示: **Flash演示**

网络培训: 不定期的网络专题培训

SciFinder Web使用注意事项

- 禁止过量下载
- 严禁账号分享
- 严禁将账号用于非学术研究

Comprehensive Content
Sophisticated Analysis
Unprecedented Results



Thank You

李虹
SciFinder 培训专员
Mail: Della@igroup.com.cn
Tel: 010-82335058-807