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如何使用SciFinder获取科技信息

天津师范大学

2016.11.17



提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

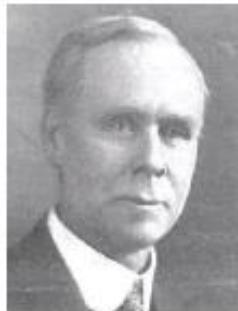


美国化学文摘社—Chemical Abstracts Service

- ACS的分支机构
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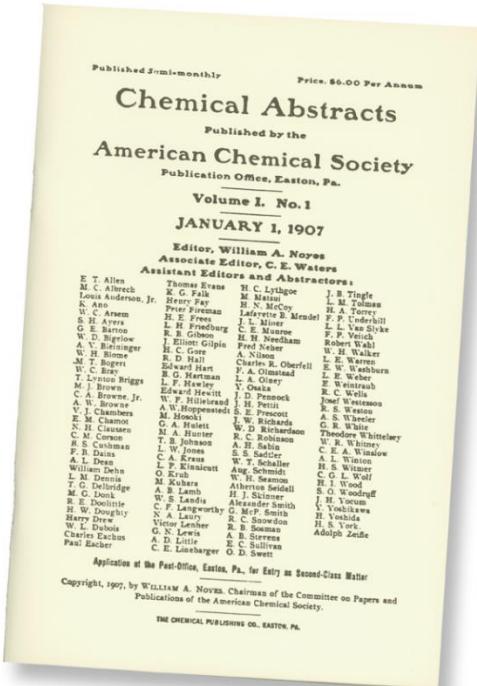


1907年，信息的汇集、管理发生了重大的变化

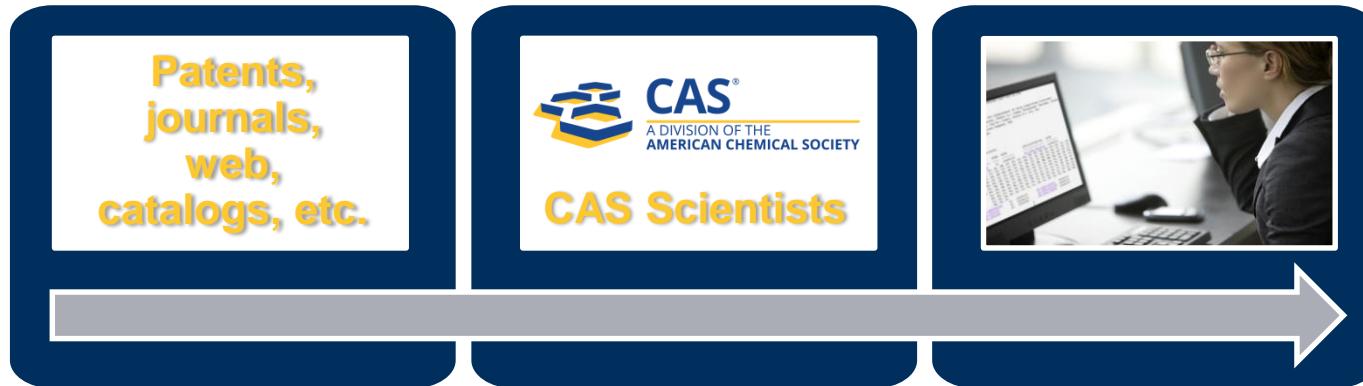


威廉·诺伊斯
(William A. Noyes)

- “化学文摘”创刊
- 当年编制近12,000条文摘
- 今天，CAS每年收录、创建来自期刊、专利和其他已公开信息的文摘达到了100余万条



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物理、无机、分析化学各领域：

表面化学,催化剂,相平衡,核现象,电化学



CAS数据库最具价值的内容——人工索引

12. Nucleoside Inhibitors of Hepatitis C Virus NS5B Polymerase: A Systematic Review

By: Xie, Yuanchao; Ogah, Comfort Alichia; Jiang, Xiangrui; Li, Jianfeng; Shen, Jingshan

A review. Nowadays, a large no. of people in the world are suffering from chronic Hepatitis C. HCV NS5B polymerase conserved across the identified 7 HCV genotypes is considered to be the most promising target in combating HCV. During the past decade, significant progress has been made in the discovery of novel nucleoside HCV NS5B polymerase inhibitors. A potent anti-HCV drug, sofosbuvir with high cure rates has been approved. Besides, quite a few nucleoside anti-HCV agents are being evaluated in clin. trials. The purpose of this review is to present recent progress in the development of nucleoside HCV NS5B polymerase inhibitors, focusing on lead compds. that hold great promise for medicinal use and their structure-activity relationships (SARs) in order to provide guidance for future drug design and discovery.

Indexing

Pharmacology (Section1-0)

Concepts

Drug design

Genotypes

Homo sapiens

Structure-activity relationship

Drug discovery

Hepatitis C virus

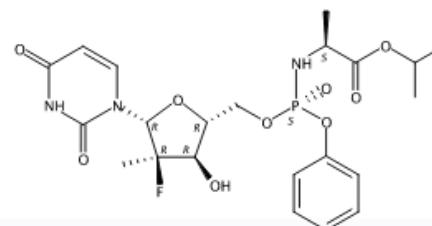
Human

development of novel nucleoside hepatitis C virus NS5B polymerase inhibitors for medicinal use and their structure-activity relationships for guidance future drug design and discovery for treating disease in human

Substances

1190307-88-0 Sofosbuvir

Absolute stereochemistry.



1430213-40-3 NS5B polymerase

development of novel nucleoside hepatitis C virus NS5B polymerase inhibitors for medicinal use and their structure-activity relationships for guidance future drug design and discovery for treating disease in human

Biological study, unclassified; Biological study

Tips:

1. 98%以上的文献，都经过人工索引
2. 用Index Term标引文献中的重要技术术语
3. 用CAS RN标引出文献中的重要物质
4. 用CAS Role标引文献中重要物质的研究领域



CAS人工标引解决的问题

- 检索词的同义词拓展：解决不同科研人员由于教育背景、语言、表达习惯不同导致的对同一个技术术语描述的差异。
- 用名称、分子式等检索化合物，会导致检索不全、不准的问题。CAS RN很好的解决了该问题，帮助检索人员实现精准定位化合物的目标。
- 利用SciFinder中的标引信息（Index Term，CAS RN，CAS Role），提高效率，启发思路。



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- 快速查找定位专利中的关键化学信息

6. Preparation of substituted nucleosides, nucleotides and analogs thereof as antiviral agents

Quick View PATENTPAK ▾

By Beigelman, Le... From PCT Int. App. WO 2016100441 A1 English

atkina, Natalia Language: English, Database: CAPLUS

Patent Family US 20160176911 A1 English

Disclosed here phosphate, R¹ methods of t medicament

B is substituted purine and pyrimidine nucleobase; dashed bond between R and R⁴ is absent, then R is H, substituted each R⁶ and R⁷ are independently hydrogen or deuterium; R⁵ is -OH or F; methods of synthesizing nucleotide analogs and as a HCV infection with one or more nucleotide analogs. Thus, nucleotide II was prep'd. and tested as antiviral agent and a hepatitis C virus.

7. Process for preparation of sofosbuvir

Quick View PATENTPAK ▾

By Li, Zebiao; Zhu, Mingmin; Zhang, Qinghai; Zhu, Gongfeng; Zhang, Zhaoquo; Lin, Yanfeng From Faming Zuanli Shengqing (2016), CN 105669804 A 20160615. | Language: Chinese, Database: CAP

The propo method comprises reaction of (1'R)-2'-deoxy-2'-fluoro-2'-methyluridine with

ZOOM DOWNLOAD PDF

8. By From

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT CO
(19) World Intellectual Property Organization International Bureau

WIPO | PCT

(10) Internat WO 2016100441

(43) International Publication Date 23 June 2016 (23.06.2016)

(51) International Patent Classification: C07H 19/10 (2006.01) C07H 19/20 (2006.01) A61K 31/7072 (2006.01) C07H 19/11 (2006.01) A61K 31/7076 (2006.01) C07H 19/213 (2006.01) A61K 31/768 (2006.01) C07H 19/067 (2006.01) A61P 31/14 (2006.01) C07H 19/073 (2006.01)

(21) International Application Number: PCT/US2015/065981

(22) International Filing Date: 16 December 2015 (16.12.2015)

(25) Filing Language: English

(81) Designated States: (kind of national protection) AO, AT, AU, AZ, BZ, CA, CH, CL, CO, DZ, EC, EE, EG, HN, HR, IU, ID, IL, KZ, LA, LC, LK, LM, MN, MW, MX, PA, PE, PG, PH, PL, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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Analyst Markup Locations (1) page 130

CAS RN 1206126-39-7

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Analyst Markup Locations (1) page 130

CAS RN 1206126-41-1

WO 2016/100441

PCT/US2015/065981

EXAMPLE 1 COMPOUND 1

dichloromethane pyridinium dichromate acetic anhydride tert-butanol

Route 2

Et₂Si-O-Cl Et₂Si-O-SiEt₂ 1-4a

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- CAS于2016年2月正式发布MethodsNow™
- 最大方法信息合集
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- 满足合成和分析研究工作者的需求

The screenshot shows the SciFinder interface with a reaction search results page. The search query is "Reactions (9)". The results list a single reaction with a yield of 79%. The reaction scheme shows two reactants reacting to form a product. The reactants are 2-ethyl-4-methoxy-ycarbonylmethyl-2H-chromen-2-one and 1-azidoundecane. The product is a complex chromene derivative with an azido group. The interface includes various filters like "Analyze by" (Et₃N, K₂CO₃, EtN(Pt)-₂) and "Display Options".

嵌在SciFinder中的合成模块

The screenshot shows the MethodsNow™ analysis interface for the compound atorvastatin. The results page displays 528 entries. A specific method for "Analysis of Atorvastatin in Blood plasma by High-performance thin layer chromatography" is shown. The method details include the analyte (Atorvastatin), matrix (Blood plasma), material (60 F₂₅₄ silica gel HPTLC plates), technique (High-performance thin layer chromatography), equipment used (Automatic TLC Sampler 3), and source (Chromatographia (2007), 65 (11/12), 763-766, Vieweg Verlag/GWV Fachverlage GmbH). The interface also includes a "View Details & Instructions" button and a "Compare" feature.

单独的分析界面



提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
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- SciFinder常见问题及解决

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SciFinder主界面

The screenshot shows the SciFinder web interface. A purple speech bubble labeled '检索入口' (Search Entry) points to the search bar in the center. Another purple speech bubble labeled '工具栏' (Toolbar) points to the top navigation bar. A third purple speech bubble labeled '已保存的结果集' (Saved Results Set) points to the 'Saved Searches' sidebar. A fourth purple speech bubble labeled '定题追踪' (Topic Tracking) points to the 'KEEP ME POSTED' section on the right. A fifth purple speech bubble labeled '检索完，请点击退出' (After search, click to exit) points to the 'Sign Out' button in the top right corner.

REFRENCES: RESEARCH TOPIC ?

Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds

Search

Advanced Search

REFRENCES

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

SUBSTANCES

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

REACTIONS

- Reaction Structure

SAVED ANSWER SETS ?

- CSF1R
- jmc
- EP 19870107847
- Daclatasvir-1
- SUB result
- EX result
- MF result
- polymer1
- polymer1
- structure search
- Autosaved Substance Set

View All | Import

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SciFinder检索——文献检索

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- 作者名检索
- 机构名检索
- 文献标识符检索
- 期刊名称和专利信息（公开号，申请号等）
- 从物质，反应获得文献



■ 检索策略推荐

- 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
- 关注某机构科研进展：机构名检索

文献检索——主题

主题检索：三维石墨烯的制备

检索式：prepare of 3D graphene

The screenshot shows the SciFinder interface. At the top, there is a navigation bar with 'CAS Solutions ▾', the 'SciFINDER® A CAS SOLUTION' logo, and three tabs: 'Explore ▾', 'Saved Searches ▾', and 'SciPlanner'. Below the navigation bar, the text 'Research Topic "prepare of 3D graphene" > references (767) > Facile Synthesis of 3D Graphen...' is displayed. On the left side, there is a sidebar with two sections: 'REFERENCES' and 'SUBSTANCES'. The 'REFERENCES' section contains links for 'Research Topic', 'Author Name', 'Company Name', 'Document Identifier', 'Journal', 'Patent', and 'Tags'. The 'SUBSTANCES' section contains links for 'Chemical Structure' and 'Markush'. The main content area is titled 'REFERENCES: RESEARCH TOPIC ?' and displays the search term 'prepare of 3D graphene' in a search bar. Below the search bar, it says 'Examples:' followed by 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromatic compounds'. A large blue 'Search' button is located below the examples. Below the search button, there is a link 'Advanced Search'. A purple rectangular box highlights the text '关键词之间用介词连接 : in, with, of...'. The SciFinder logo is at the bottom right.

主题检索的候选项

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Research Topic "prepare of 3D graphene"

REFERENCES ?

Select All Deselect All

1 of 8 Research Topic Candidates Selected

- | | References |
|--|------------|
| <input type="checkbox"/> 1 reference was found containing "prepare of 3D graphene" as entered. | 1 |
| <input checked="" type="checkbox"/> 910 references were found containing the two concepts "prepare" and "3D graphene" closely associated with one another. | 910 |
| <input type="checkbox"/> 1603 references were found where the two concepts "prepare" and "3D graphene" were present anywhere in the reference. | 1603 |
| <input type="checkbox"/> 58400 references were found containing the concept "prepare", and either the concept "3D" or the concept "graphene". The concepts found were closely associated with one another. | 58400 |
| <input type="checkbox"/> 102301 references were found containing the concept "prepare", and either the concept "3D" or the concept "graphene". The concepts found were present anywhere (perhaps widely separated) within the reference. | 102301 |
| <input type="checkbox"/> 11876585 references were found containing the concept "prepare". | 11876585 |
| <input type="checkbox"/> 2881 references were found containing the concept "3D graphene". | 2881 |
| <input type="checkbox"/> 421680 references were found containing either the concept "3D" or the concept "graphene". | 421680 |

Get References

“Concepts”表示对主题词做了同义词的扩展；

“Closely associated with one another”表示同时出现在一个句子中；

“were present anywhere in the reference”表示同时出现在一篇文献中；



按被引次数排序— Citing References

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Research Topic "prepare of 3D graphene" > references (767)

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Analyze by: Author Name Wei Wei 13 Huang Wei 11 Hu Yun Hang 10 Ma Jie 10 Yu Fei 10 Dong Xiaochen 9 Chen Peng 8 Zhang Hua 8 Qu Liangti 7 Shi Gaoquan 7

Author Name Selected

Page: 1 of 39

1. A Cobalt Oxide Electrode for High-Performance Supercapacitor and Enzymeless Glucose Detection

By Dong, Xiao-Chen; Xu, Hang; Wang, Xue-Wan; Huang, Yin-Xi; Chan-Park, Mary B.; Zhang, Hua; Wang, Lian-Hui; Huang, Wei; Chen, Peng
From ACS Nano (2012), 6(4), 3206-3213. | Language: English, Database: CAPLUS

Using a simple hydrothermal procedure, cobalt oxide (Co_3O_4) nanowires were *in situ* synthesized on three-dimensional (3D) **graphene** foam grown by chem. vapor deposition. The structure and morphol. of the resulting 3D **graphene**/ Co_3O_4 composites were characterized by SEM, TEM, x-ray diffraction, and Raman spectroscopy. The 3D **graphene**/ Co_3O_4 composite was used as the monolithic free-standing electrode for supercapacitor application and for enzymeless electrochem. detection of glucose. The authors demonstrate that it is capable of delivering high specific capacitance of $\sim 1100 \text{ F g}^{-1}$ at a c.d. of 10...

2. A Three-Dimensional Carbon Nanotube/Graphene Sandwich and Its Application as Electrode in Supercapacitors

By Fan, Zhuangjun; Yan, Jun; Zhi, Linjie; Zhang, Qiang; Wei, Tong; Feng, Jing; Zhang, Milin; Qian, Weizhong; Wei, Fei
From Advanced Materials (Weinheim, Germany) (2010), 22(33), 3723-3728. | Language: English, Database: CAPLUS

A 3D CNT/**graphene** sandwich structures with CNT pillars grown in between the **graphene** layers had been **prep'd.** by CVD. The unique structure endows the high rate transportation of electrolyte ions and electrons throughout the electrode matrix and comprehensive utilization of pseudo and double-layer capacitance, resulting in excellent electrochem. performances. The supercapacitor based on CGS exhibits $1'00$ a specific capacitance of 385 F g^{-1} at 10 mV s^{-1} in 6 M KOH 1600 2000 soln. After 2000 cycles, a capacitance increase of ca. 20 % of the initial capacitance is obsd., indicating excellent elec...

Citing Reference: 帮助找到最重要的文献



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Research Topic "prepare of 3D graphene" > references

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Author Name	Count
Wei Wei	13
Huang Wei	11
Hu Yun Hang	10
Ma Jie	10
Yu Fei	10
Dong Xiaochen	9
Chen Peng	8
Zhang Hua	8
Qu Liangti	7
Shi Gaoquan	7

1. Edge-rich and (N, S)-doped 3D porous **graphene** as efficient metal-free electrocatalyst for ORR
By Wu, Xiao; Xie, Zhiyong; sun, min; lei, bin; zuo, zhenming; Xie, Xiangmin; li, liangyi; Huang, Qizhong
From RSC Advances (2016), Ahead of Print. | Language: English, Database: CAPLUS
A novel edge-rich and (N, S)-doped 3D porous **graphene** was synthesized by Chem. Vapor Deposition (CVD) and chem. corrosion. The hybrid material as a metal-free electrocatalyst exhibited a four-electron pathway, stronger alk. tolerance and excellent catalytic activity for oxygen redn. reaction due to the edge effect and heteroatom synergistic effect.

2. Facile Synthesis of 3D Graphene Flowers for Ultrasensitive and Highly Reversible Gas Sensing
By Wu, Jin; Feng, Shuanglong; Wei, Xingzhan; Shen, Jun; Lu, Wenqiang; Shi, Haofei; Tao, Kai; Lu, Shirong; Sun, Tai; Yu, Leyong; et al
From Advanced Functional Materials (2016), Ahead of Print. | Language: English, Database: CAPLUS
Fabrication of nanostructured **graphene** (Gr) for gas sensing applications has become increasingly attractive. For the first time, 3D **graphene** flowers (GF) cluster patterns are grown directly on an Ni foam substrate by inexpensive homebuilt microwave plasma-enhanced chem. vapor deposition (MPCVD) using the gas mixt. H₂/C₂H₄O₂@Ar as a precursor. The interim morphologies of the synthesized GF are investigated and the growth mechanism of the GF film is proposed. The GF are decompd. to few-layer Gr sheets by ultrasonication in ethanol. For the first time, MPCVD-synthesized Gr is exploited to fab...

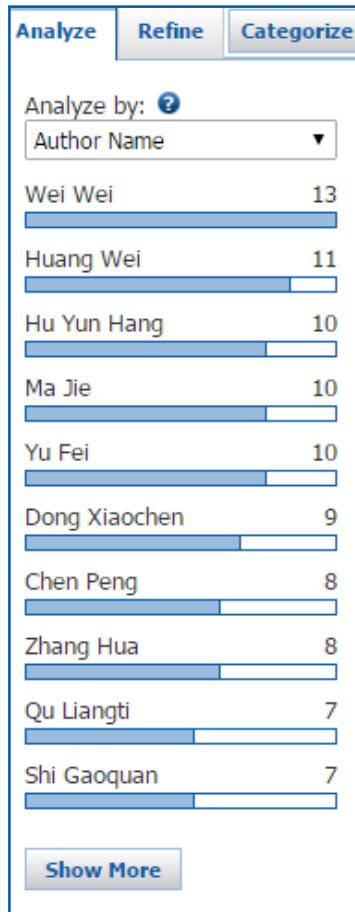
3. N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted "cutting-thin" technique: A universal synthesis and multifunctional applications
By Zhao, Yufeng; Huang, Shifei; Xia, Meirong; Rehman, Sarish; Mu, Shichun; Kou, Zongkui; Zhang, Zhi; Chen, Zhao yang; Gao, Faming; Hou, Yanglong
From Nano Energy (2016), 28, 346-355. | Language: English, Database: CAPLUS
Large scale prodn. of three dimensional (3D) **graphene** materials with high d. and low degree of defects stands for the main challenge hindering their practical applications.

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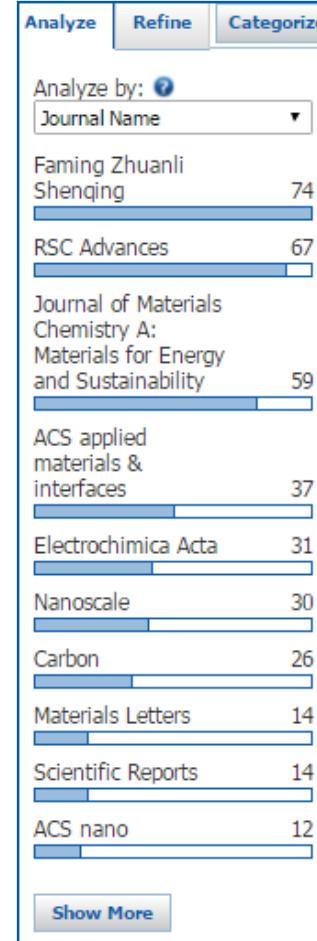
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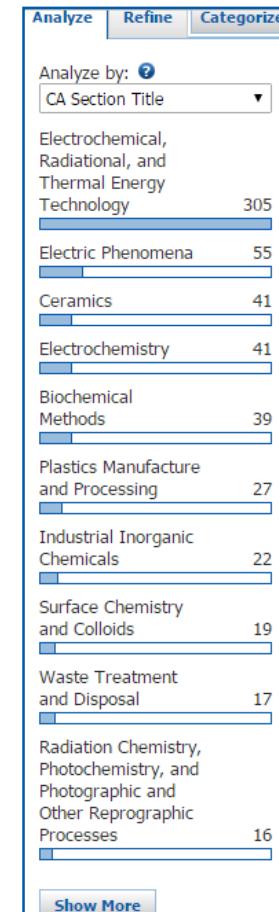
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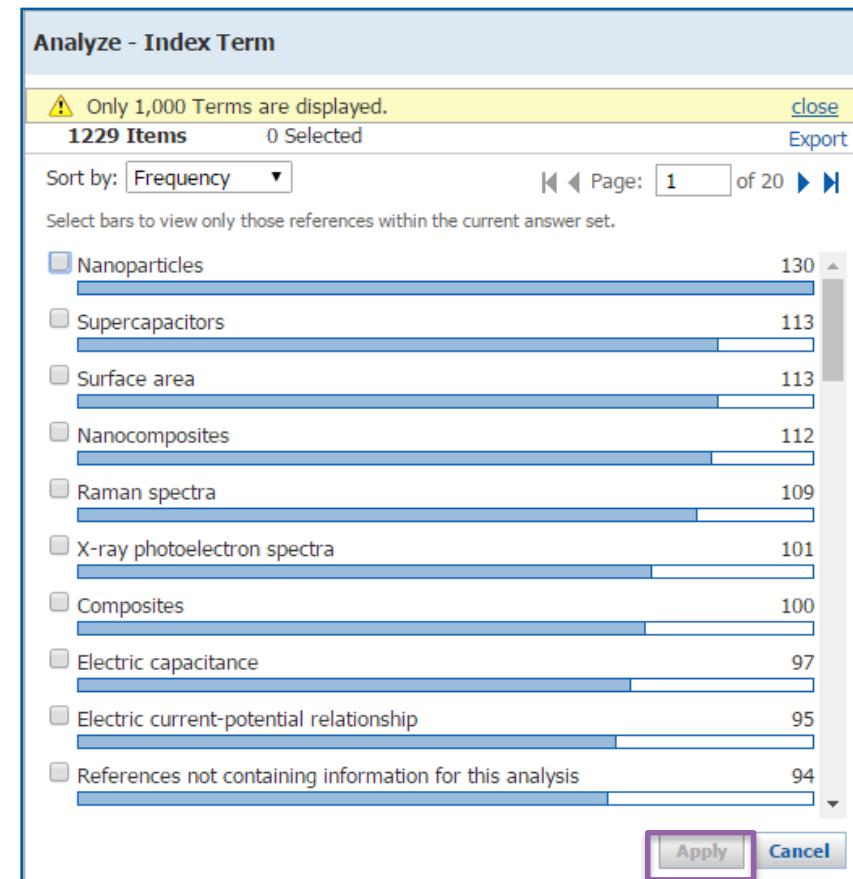
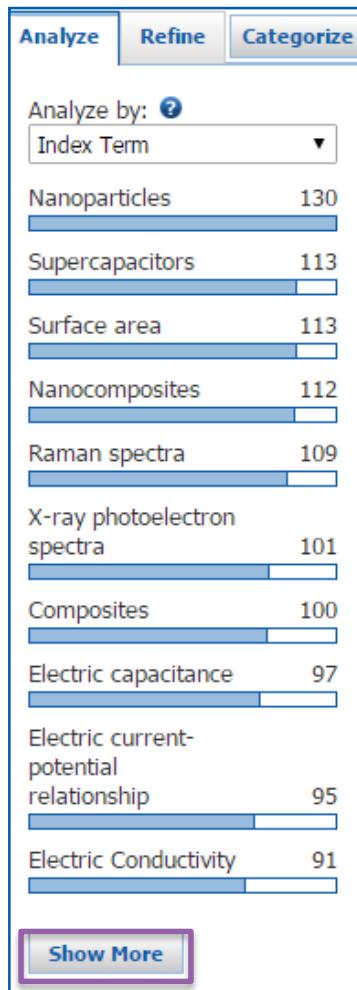
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1. N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted "cutting-thin" technique: A universal synthesis and multifunctional applications

Quick View Other Sources
By Zhao, Yufeng; Huang, Shifei; Xia, Meirong; Rehman, Sarish; Mu, Shichun; Kou, Zongkui; Zhang, Zhi; Chen, Zhaoyang; Gao, Faming; Hou, Yanglong
From Nano Energy (2016), 28, 346-355. | Language: English, Database: CAPLUS

Large scale prodn. of three dimensional (**3D**) **graphene** materials with high d. and low degree of defects stands for the main challenge hindering their practical applications. Herein, we report a universal and readily scalable strategy to produce an N-P-O co-doped free standing **3D graphene** through a one-pot red phosphorus-assisted "cutting-thin" technique. The solid carbon precursor is gradually exfoliated through the slowly released gases (e.g. pH₃, H₂, CO₂) and metallic K during the reaction, which allows the formation of dominant amt. nanopores, and ensures the high d. of the products. The ...

2. Rational construction of graphene oxide with MOF-derived porous NiFe@C nanocubes for high-performance microwave attenuation

Quick View Other Sources
By Yang, Zhihong; Lv, Hualiang; Wu, Renbing
From Nano Research (2016), Ahead of Print. | Language: English, Database: CAPLUS

Exploring lightwt. microwave attenuation materials with strong and tunable wideband microwave absorption is highly desirable but remains a significant challenge. Herein, three-dimensional (**3D**) porous hybrid composites consisting of NiFe nanoparticles embedded within carbon nanocubes decorated on **graphene** oxide (GO) sheets (NiFe@C nanocubes@GO) as high-performance microwave attenuation materials have been rationally **synthesized**. The **3D** porous hybrid composites are fabricated by a simple method, which involves one-step pyrolysis of NiFe Prussian blue analog nanocubes in the presence of GO shee...

3. Facile self-assembly N-doped graphene quantum dots/graphene for oxygen reduction reaction

Quick View Other Sources
By Fan, Mengmeng; Zhu, Chunlin; Yang, Jiazh; Sun, Dongping
From Electrochimica Acta (2016), 216, 102-109. | Language: English, Database: CAPLUS

Nitrogen doping carbon nanomaterial has become an important metal-free electrocatalyst for oxygen redn. reaction (ORR) in fue cells. N-doped **graphene** quantum dots (N-GQDs) are one of the most promising nanomaterials due to abundant electrocatalytic edging and N doping active sites, but low yield, high dispersity and no forming efficient percolative conductive network hinder their direct application as the electrocatalyst. Hydrothermal method is an effective route for **prepg.** high-quality N-GQDs and meanwhile, overcomes the drawbacks of complicated **prepg.** progress and low yield. We further hy...

4. High performance agar/graphene oxide composite aerogel for methylene blue removal

Quick View Other Sources
By Chen, Long; Li, Yanhui; Du, Qiuju; Wang, Zonghua; Xia, Yanzhi; Yedinak, Emily; Lou, Jun; Ci, Lijie
From Carbohydrate Polymers (2017), 155, 345-353. | Language: English, Database: CAPLUS

Analyze Refine Categorize

Refine by: ?

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

Company Name
china

Examples:
3M
DuPont

Refine

Refine : 帮助用户迅速获得需要的文献



文献检索结果的Categorize

学科领域
主分类

学科领域
副分类

Index Term

选中的Index Term

Categorize ?

1. Select a heading and category.

Category Heading	Category
All	Substances in technology (716)
Technology	Materials & products (203)
General chemistry	Processes & apparatus (202)
Physical chemistry	Metallurgy (52)
Synthetic chemistry	Power & fuel topics (25)
Polymer chemistry	Formed, removed, & other substances (106)
Catalysis	Construction (11)
Biotechnology	Imaging & recording (12)
Analytical chemistry	Ceramics (8)
Environmental chemistry	
Genetics & protein chemistry	
Biology	

2. Select index terms of interest.

Index Terms	Selected Terms
<input type="checkbox"/> Graphene 427 ▲	Click 'x' to remove the category from 'Selected Terms'
<input checked="" type="checkbox"/> Nanocomposites 86	✖ Technology > Materials & products (1 Terms)
<input type="checkbox"/> Composites 85	
<input type="checkbox"/> Graphite 83	
<input type="checkbox"/> Platinum 31	
<input type="checkbox"/> Hydrogen 26	
<input type="checkbox"/> Carbon black 21	
<input type="checkbox"/> Oxygen 20	
<input checked="" type="checkbox"/> Nanostructured materials 19	
<input type="checkbox"/> Porous materials 16	
<input type="checkbox"/> Adsorbents 13	
<input type="checkbox"/> Solar cells 12	
<input type="checkbox"/> Nanowires 11	
<input type="checkbox"/> Sulfur 11	
<input type="checkbox"/> Argon 10 ▼	

Technology > Materials & products > 1 Index Term(s) Selected

OK Cancel

Categorize学科分类功能，基于Index Term，根据大学科方向对文献进行自动分类。



结果集的保存— Save, Print, Export

SciPlanner

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Display Options

Sort by: Accession Number ▾

0 of 19 References Selected

1. A green and simple strategy to prepare graphene foam-like three-dimensional porous carbon/Ni nanoparticles for glucose sensing

2. Facile synthesis of flower-like platinum nanostructures as an efficient electrocatalyst for methanol electro-oxidation

3. Extremely Weak van der Waals Coupling in Vertical ReS₂ Nanowalls for High-Current-Density Lithium-Ion Batteries

文献详细信息

Save : 保存在服务器上，方便以后登陆查看，每次可存1万条记录。

Export : 导出至本地电脑。

Print : 打印成PDF格式

Citation manager: 保存成RIS等格式，可导入EndNote 等文献管理工具

Offline Review : 保存成PDF , RTF等格式，用于脱机浏览

Export

For:

All
 Selected
 Range

Example: 2-20

Details:

File Name: * Reference_06_19_2012_100848

Format:

Summary without abstracts
 Summary with partial abstracts
 Summary with full abstracts
 Detail (full record)

Include:

Task History
 Tags
 Comments

Required

Export Cancel



文献信息一题录、摘要、索引

3. Extremely Weak van der Waals Coupling in Vertical ReS₂ Nanowalls for High-Current-Density Lithium-Ion Batteries

By: Zhang, Qin; Tan, Shuangjie; Mendes, Rafael G.; Sun, Zhongti; Chen, Yongting; Kong, Xin; Xue, Yinghui; Ruemmeli, Mark H.; Wu, Xiaojun; Chen, Shengli; Fu, Lei

In addn. to the weak interlayer coupling, ReS₂ possesses the highest anisotropic ratio along its two principle axes as compared to all exptl. investigated 2D layered materials. As shown in early studies, the direction of the Re-Re at. chain is more conductive than other cryst. orientations. However, 2D layered materials, including ReS₂, are always randomly oriented in a conventional stacked geometry. Therefore, we first synthesized ultrauniformly distributed vertical ReS₂ nanowalls (V-ReS₂) grown on 3D graphene foam (3DGF) by chem. vapor deposition with Re-Re sites adjacent to the graphene for the purpose of enhancing the cond. Meanwhile, the ReS₂ nanowalls expose more active sulfur edge sites, which improves easy lithium intercalation and deintercalation. To enhance the cond. of the whole electrode material, 3DGF was selected as template due to its high cond. and high-sp. surface area. Moreover, this favorable vertical structure shortens the pathways and facilitates fast diffusion of both Li⁺ and electrolyte ions. As expected, the V-ReS₂/3DGF composite demonstrated good cycling stability at high-current-densities when serving as anode material for LIBs. At the high c.d. of 1000 mA/g, the capacity of our ReS₂/3DGF anodes still maintained over 200 mAh/g even after 500 cycles. The extremely weak vdW coupling material of ReS₂ holds great promise for practical applications in LIBs. In addn., it broadens the material choice of anode materials for other alk.-ion batteries.

Indexing

Concepts	重要概念
Battery anodes	Current density
Delithiation	Intercalation
Lithiation	Lithium-ion secondary batteries
Nanostructured materials	
extremely weak van der Waals coupling in vertical ReS ₂ nanowalls for high-current-d. lithium-ion batteries	

Substances	重要物质
12038-63-0 P Rhenium sulfide	
extremely weak van der Waals coupling in vertical ReS ₂ nanowalls for high-current-d. lithium-ion batteries	
Synthetic preparation; Technical or engineered material use; Preparation; Uses	
7439-93-2 Lithium, uses	
1034343-98-0 Graphene	
extremely weak van der Waals coupling in vertical ReS ₂ nanowalls for high-current-d. lithium-ion batteries	
Technical or engineered material use; Uses	

文献详情界面对包括：

1. 标题
2. 摘要
3. 文献中重要的技术术语
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
7. 参考文献
8. 链接原文

QUICK LINKS
0 Tags, 0 Comments
SOURCE
Advanced Materials (Weinheim, Germany)
Volume28
Issue13
Pages2616-2623
Journal; Online Computer File
2016
CODEN:ADVMEW
ISSN:0935-9648
DOI:10.1002/adma.201505498
COMPANY/ORGANIZATION
College of Chemistry and Molecular Science Wuhan University Wuhan, Peop. Rep. China 430072
ACCESSION NUMBER
2016:170829 CAN164:397211 CAPLUS
PUBLISHER
Wiley-VCH Verlag GmbH & Co. KGaA
LANGUAGE
English



文献检索小结

- 主题检索时，使用介词 **in, with, of** 等作为连接词
- 跟据检索要求选择合适的候选项
- 通过SciFinder 的Analyze/Refine功能来缩小检索的范围
- 尝试将不同的Analyze/Refine功能组合起来用，会有更多的收益
- 使用Categorize可以让系统来实现自动分类

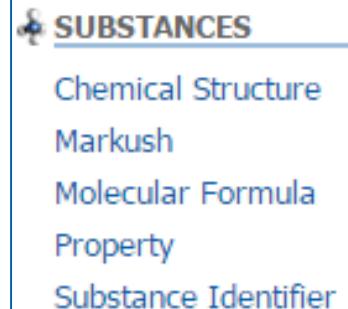
提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

SciFinder检索选项——物质检索

■ 物质检索方法

- 结构式检索
- 分子式检索
- 理化性质检索
- 物质标识符检索：化学名称，CAS RN



■ 物质检索策略推荐

- 有机化合物，天然产物：结构检索
- 无机物，合金：分子式检索
- 高分子化合物：分子式检索和结构检索

物质检索——标识符检索

Explore ▾ Saved Searches ▾ SciPlanner

Substance Identifier "1190307-88-0" > substances (1)

REFERENCES

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

SUBSTANCES: SUBSTANCE IDENTIFIER ?

1190307-88-0

Enter one per line.
Examples:
50-00-0
999815
Acetaminophen

Search

提示：

1. 一次最多可输入25个物质。
2. 每行一个物质标识符。

物质标识符包括CAS RN和化学名称，化学名称可以是通用名称、商品名、俗名。

SciFinder中的物质记录

点击CAS RN获得物质详细信息

CAS Registry Number: 1190307-88-0

View Substance Detail

Explore by Structure

Synthesize this...

Get Reactions where Substance is a ▶

Get Commercial Sources

Get Regulatory Information

Get References

Export as Image

Export as molfile

Send to SciPlanner

1. 1190307-88-0

~619 ~95

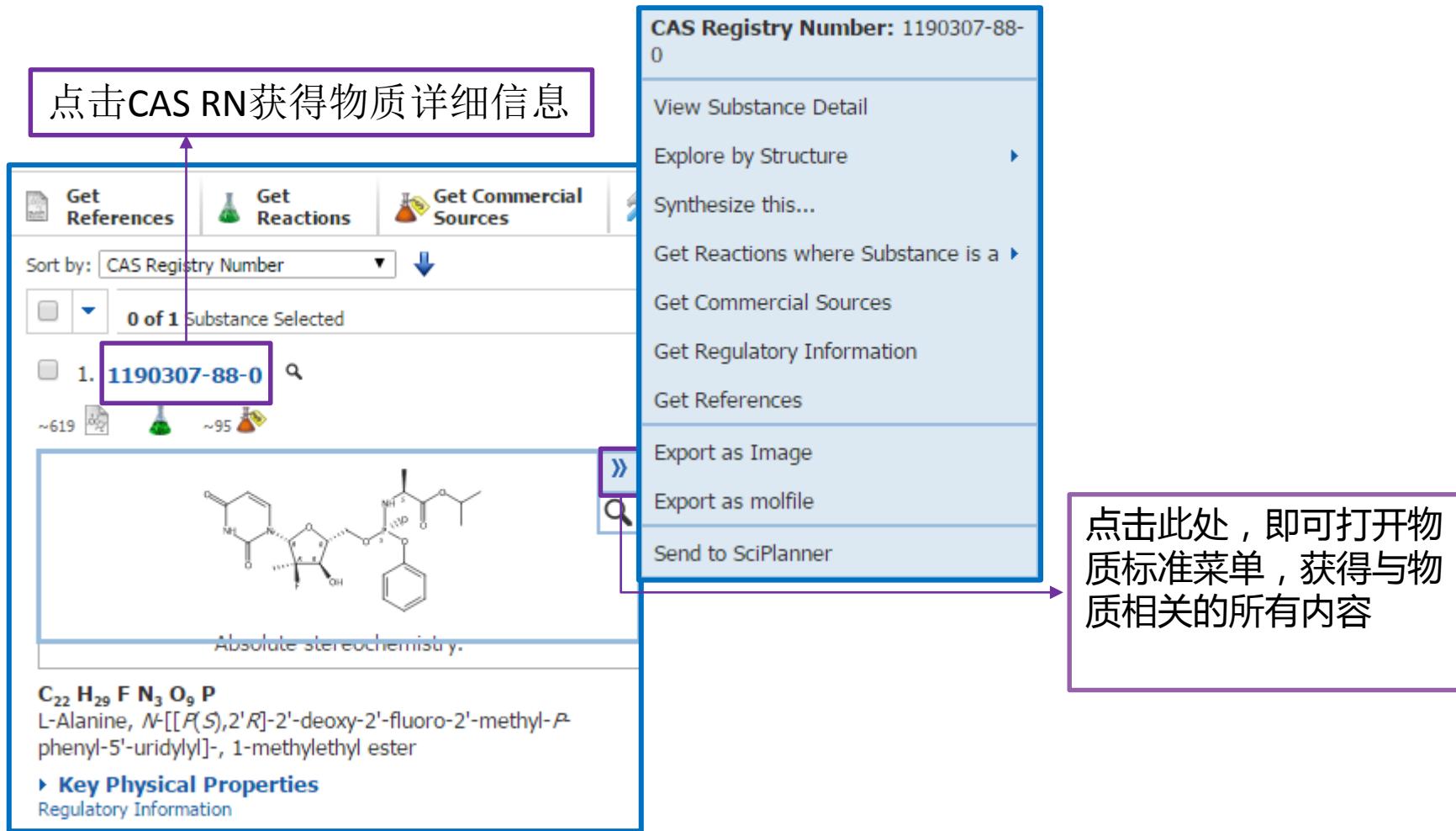
Absolute stereochemistry.

C₂₂H₂₉FN₃O₉P
L-Alanine, N-[[P(S),2'R]-2'-deoxy-2'-fluoro-2'-methyl-β-phenyl-5'-uridyl]-, 1-methylethyl ester

Key Physical Properties

Regulatory Information

点击此处，即可打开物质标准菜单，获得与物质相关的所有内容



SciFinder中的物质记录

SUBSTANCE DETAIL ?

[Get References](#) [Get Reactions](#) [Get Commercial Sources](#)

[Return](#)

CAS Registry Number 1190307-88-0

~619 ~95

C₂₂ H₂₉ F N₃ O₉ P
L-Alanine, *N*-[[*P*(*S*),2'*R*]-2'-deoxy-2'-fluoro-2'-methyl-*P*-phenyl-5'-uridylyl]-, 1-methylethyl ester

Molecular Weight
529.45

Density (Predicted)
Value: 1.41±0.1 g/cm³ | Condition: Temp: 20 °C Press: 760 Torr

pKa (Predicted)
Value: 9.39±0.10 | Condition: Most Acidic Temp: 25 °C

Other Names
GS 7977
Hepcinat
Hepcvir
Isopropyl (2*S*)-2-[(2*R*,3*R*,4*R*,5*R*)-5-(2,4-dioxopyrimidin-1-yl)-4-fluoro-3-hydroxy-4-methyl-tetrahydrofuran-2-yl]methoxy-phenoxy-phosphoryl]amino]propionate
PSI 7977

[View more...](#)

由物质获得文献，反应，供应商等信息

A chemical structure showing a purine ring system fused to a pyrimidine ring. It has two carbonyl groups at positions 2 and 6, and an amino group at position 4.

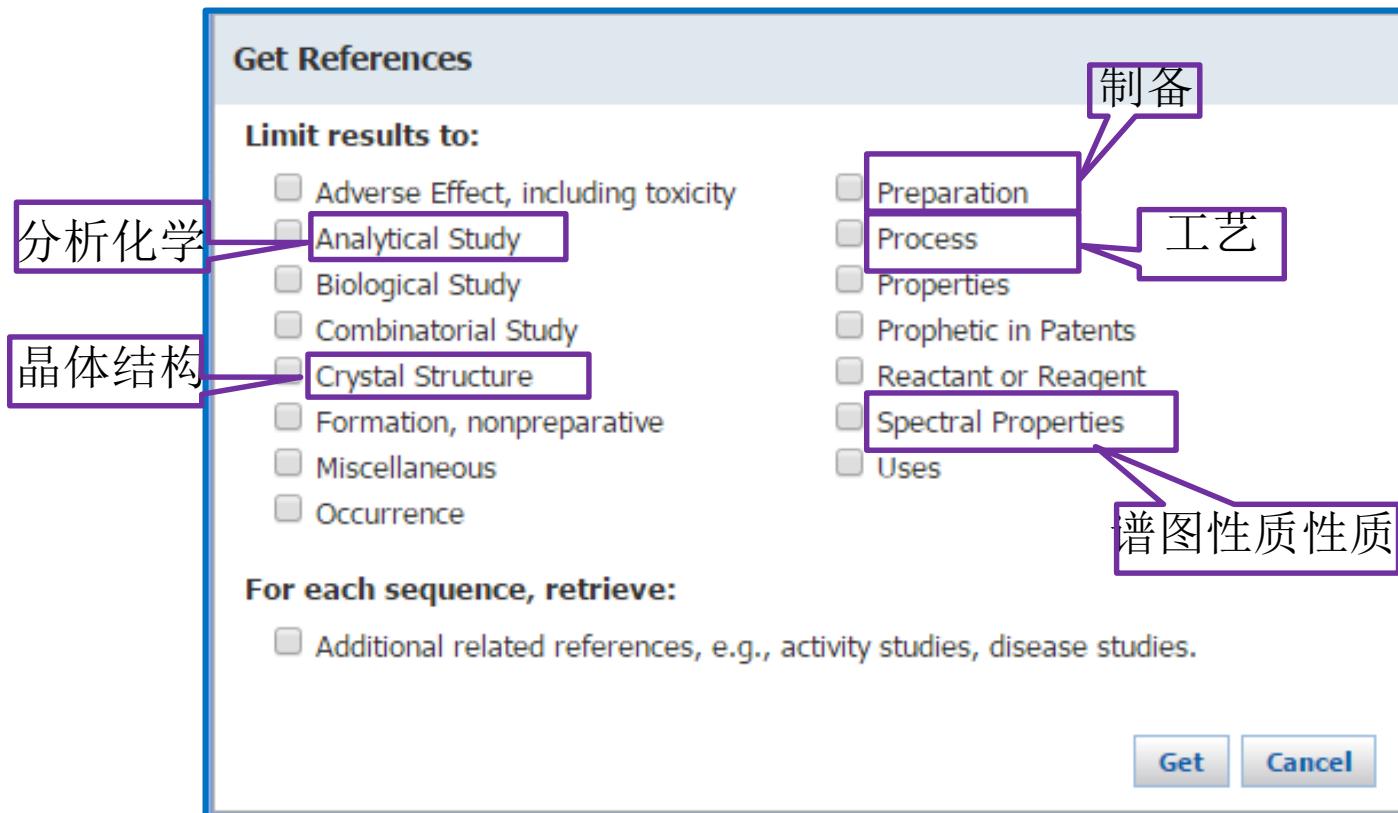
A chemical structure showing a tetrahydrofuran ring with substituents: a hydroxyl group (OH) at position 3, a fluorine atom (F) at position 4, and two methyl groups (R) at positions 2 and 5.

A complex chemical structure showing a phosphorus atom (P) bonded to a phenyl ring, an isopropyl ester group (-OOCCH(CH₃)₂), and a methoxy group (-OCH₃). The phosphorus atom is also bonded to two oxygen atoms, one of which is part of a chiral center labeled 'S'.

Absolute stereochemistry.

物质详情

通过物质获得文献



SciFinder中的物质信息

EXPERIMENTAL PROPERTIES

Structure Related Properties

Crystal Structure

Value: See full text

Condition:

Note: (1) CAS

Notes: (1) Sofia, Michael J.; Journal of Medicinal Chemistry 2010, V53(19), P7202-7218 CAPLUS

EXPERIMENTAL SPECTRA

¹H NMR Hetero NMR Mass

¹H NMR Properties

Proton NMR Spectrum

Value: See full text

Condition:

Note: (1) CAS

Notes: (1) Sofia, Michael J.; Journal of Medicinal Chemistry 2010, V53(19), P7202-7218 CAPLUS

PREDICTED PROPERTIES

PREDICTED SPECTRA

预测实验数据



物质检索——Property explore

The screenshot shows the SciFinder interface with the following details:

- Header:** CAS Solutions ▾, SCI-FINDER® A CAS SOLUTION.
- Navigation Bar:** Explore ▾ (selected), Saved Searches ▾, SciPlanner.
- Message:** Opened saved answer set "c-c bond formation" (693) > Formation Mechanism of the Fir...
- Left Sidebar:**
 - REFERENCES**: Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags.
 - SUBSTANCES**: Chemical Structure, Markush, Molecular Formula, Property (selected), Substance Identifier.
 - REACTIONS**: Reaction Structure.
- Main Content:** SUBSTANCES: PROPERTY ?
 - Experimental** (radio button selected)
 - Electric Conductivity (S/cm)** (highlighted in blue):
> 353400
Examples: 44, 25-35, >125
 - Select Property...**, Boiling Point (°C), Density (g/cm³), Electric Conductance (S), Electric Conductivity (S/cm), Electric Resistance (ohm), Electric Resistivity (ohm·cm), Glass Transition Temp. (°C), Magnetic Moment (μB), Median Lethal Dose (LD50) (mg/kg), Melting Point (°C), Optical Rotatory Power (degrees), Refractive Index, Tensile Strength (MPa).

寻找导电率比铜的60%大的非金属材料



物质结果集的筛选——Refine

SUBSTANCES Get References Get Commercial Sources Tools Send to SciPlanner

Sort by: CAS Registry Number

Refine by: Chemical Structure Isotope-Containing Metal-Containing Commercial Availability Property Availability Property Value Reference Availability Atom Attachment

Select One: Include only metal-containing substances Exclude metal-containing substances

Editor Note: A sulfonated polystyrene-doped PEDOT (H.C. Starck)
Unspecified Clevios P-VP-AI 4083 Experimental Properties

0 of 39 Substances Selected

1. 1044804-35-4 Substance Image Cannot Be Displayed 1044804-35-4

2. 943433-94-1 Substance Image Cannot Be Displayed 210531-45-6 (Component: 625392-06-5) C₁₃H₈F₂O₇S₂ · 2 Na

~929 Click to view detail

Page: 1 of 3

0 of 14 Substances Selected

1. 1044804-35-4 Substance Image Cannot Be Displayed 1044804-35-4

Editor Note: A sulfonated polystyrene-doped PEDOT (H.C. Starck)
Unspecified Clevios P-VP-AI 4083 Experimental Properties

2. 868628-72-2 Substance Image Cannot Be Displayed C₁₈H₃₅B N₂ Boron, tributyl[1-(2-propen-1-yl)-1H-imidazole-κN]⁺, (7-4)- Key Physical Properties Experimental Properties

~2 Click to view detail

3. 868628-71-1 Substance Image Cannot Be Displayed C₁₈H₃₅B N₂ Boron, tributyl[1-(2-propen-1-yl)-1H-imidazole-κN]⁺, (7-4)- Key Physical Properties Experimental Properties

~2 Click to view detail

4. 866023-23-6 Substance Image Cannot Be Displayed 120120-58-3 C₁₀H₈O₄S₂

~3 Click to view detail

如何筛选非金属物质？

物质检索——分子式

检索 $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$, Aluminum potassium sulfate dodecahydrate

Explore ▾ Saved Searches ▾ SciPlanner

REFERENCES

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

SUBSTANCES

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

REACTIONS

- Reaction

SUBSTANCES: MOLECULAR FORMULA ⓘ

AIKS2O8.12H2O

Examples:
 H_4SiO_4
 $(\text{C}_3\text{H}_6\text{O}, \text{C}_2\text{H}_4\text{O})_x$

Search

Explore ▾ Saved Searches ▾ SciPlanner

⚠ Explore Substances resulted in 0 substances [Return](#)

Molecular Formula "AI K O8 S2 . 12 H2 O" > **substances (0)**

SUBSTANCES

Analyze Refine

Analyze by:
No substances available

分子式书写遵守Hill排序规则：

- 不含碳物质，按元素符号的字母顺序排列；含碳物质，“C”在前，氢在后，其它元素符号按字母顺序排列
- 混合物：不同组份间用点（.）分开

物质检索——分子式

Explore ▾ Saved Searches ▾ SciPlanner

Molecular Formula "Al . H4 O8 S2 . 12 H2 O . K" > substances (0)

REFERENCES

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

SUBSTANCES

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

SUBSTANCES: MOLECULAR FORMULA ?

Al.12H2O.2H2O4S.K

Examples:
H4SiO4
(C₃H₆O,C₂H₄O)_x

Search

1. 7784-24-9

(Component: 7664-93-9)

~998 ~85

O=S(=O)(O)O

• 1/2 Al

• 1/2 K

• 6 H₂O

Al . 2 H₂ O₄ S . 12 H₂ O . K
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate (8CI, 9CI)

Regulatory Information
Spectra

物质检索——结构

SUBSTANCES: CHEMICAL STRUCTURE [?](#)

Structure Editor:

[Java](#) [Non-Java](#)

Click to Edit

Import CXF

Search

Advanced Search Always Show

Search Type:

Exact Structure
 Substructure
 Similarity

Show precision analysis

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REFERENCES

Research Topic
Author Name
Company Name
Document Identifier
Journal
Patent
Tags

SUBSTANCES

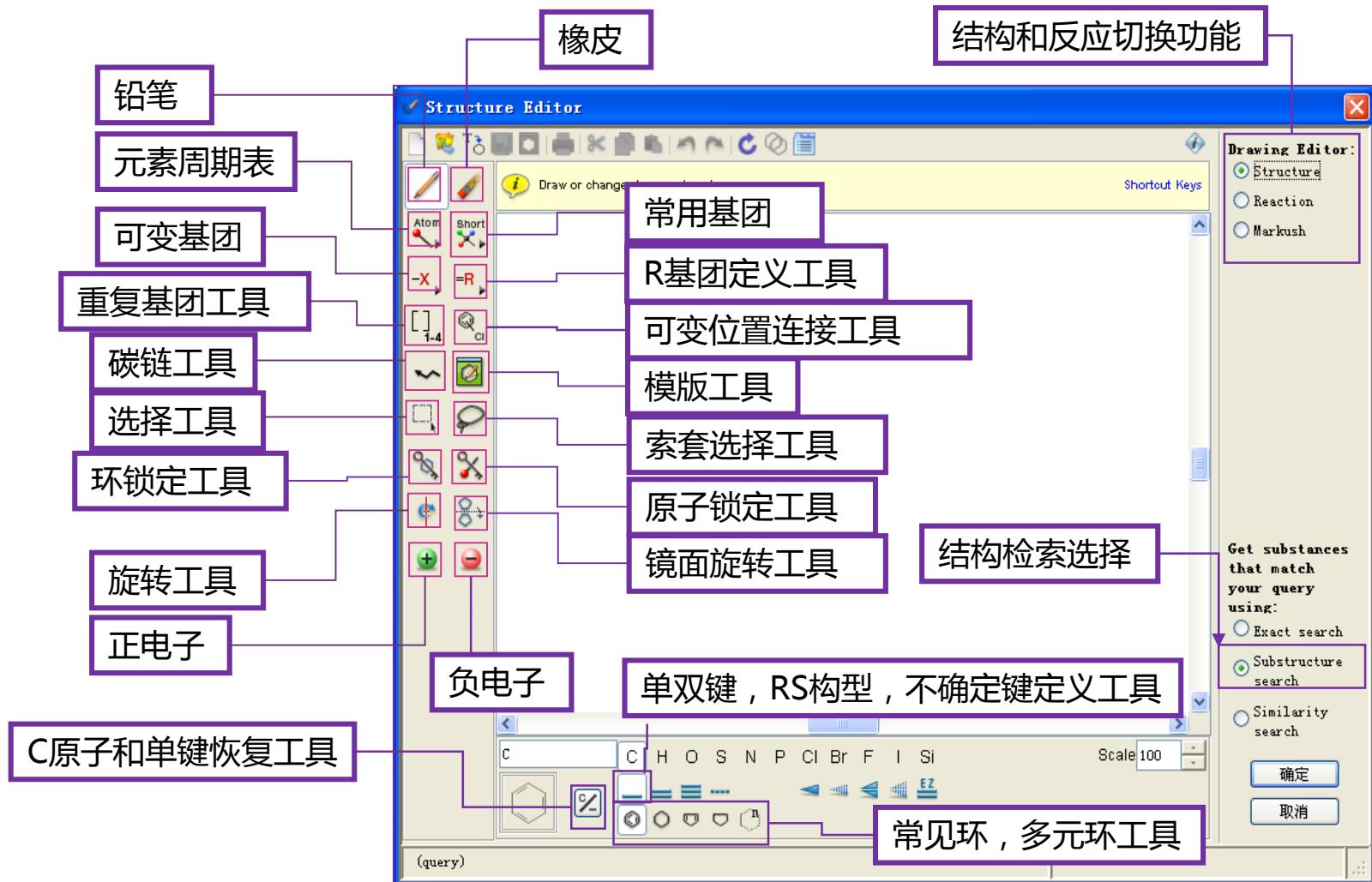
Chemical Structure

Markush
Molecular Formula
Property
Substance Identifier

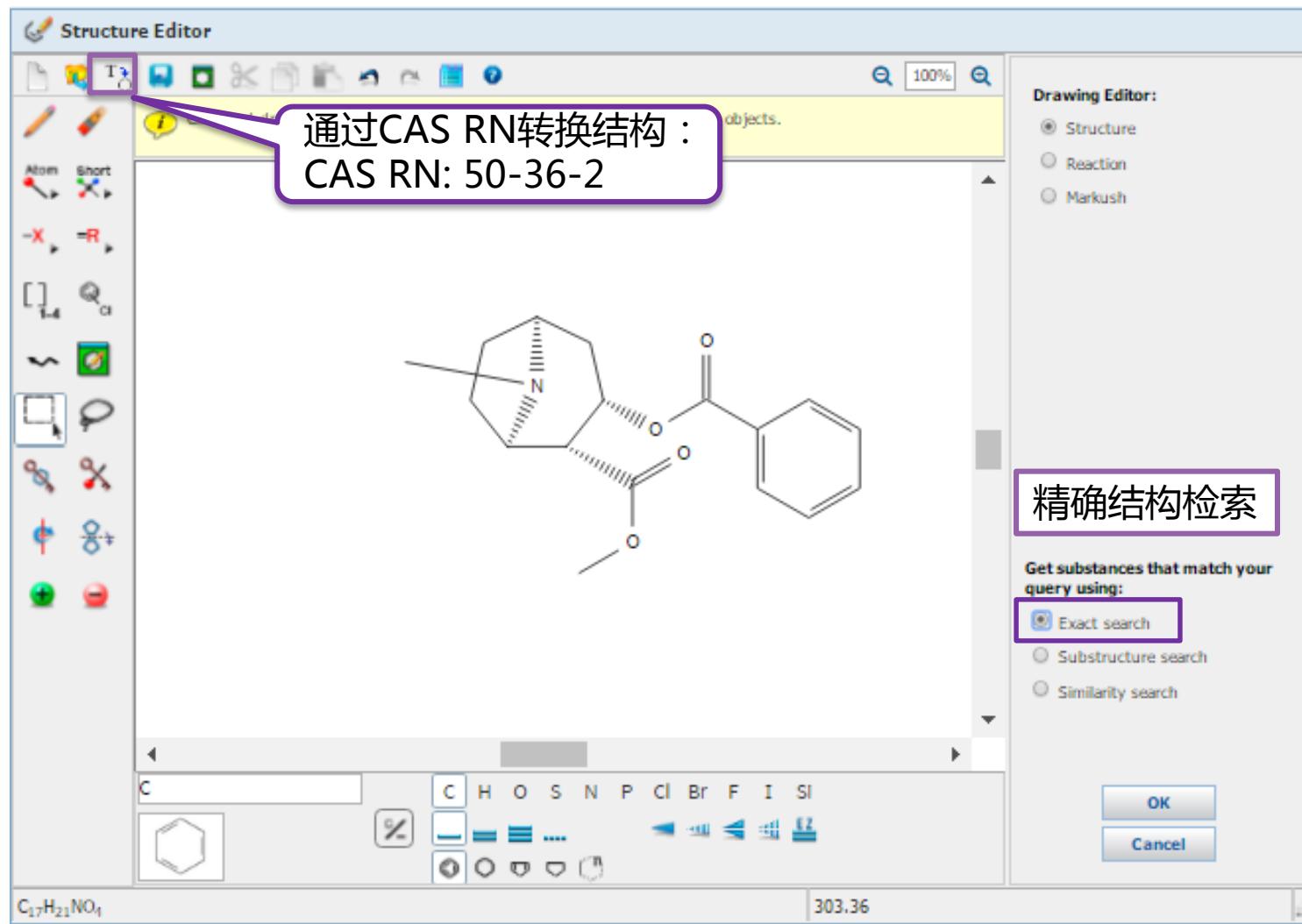
REACTIONS

Reaction Structure

物质检索——结构



物质检索——精确结构检索

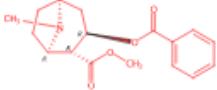


精确结构检索结果

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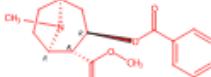
Sort by: Relevance ▾

0 of 6 Substances Selected

1. 668-19-9 
Absolute stereochemistry.

CN1[C@H](C[C@H]1C(=O)OC(=O)c2ccccc2)C(=O)OC

可卡因

2. 114599-38-1 
Absolute stereochemistry.

CN1[C@H](C[C@H]1C(=O)OC(=O)c2ccccc2)C(=O)OC

3. 109496-04-0 
(Component: 668-19-9)
Absolute stereochemistry.

CN1[C@H](C[C@H]1C(=O)OC(=O)c2ccccc2)C(=O)OC · HCl

可卡因组合物

盐酸可卡因

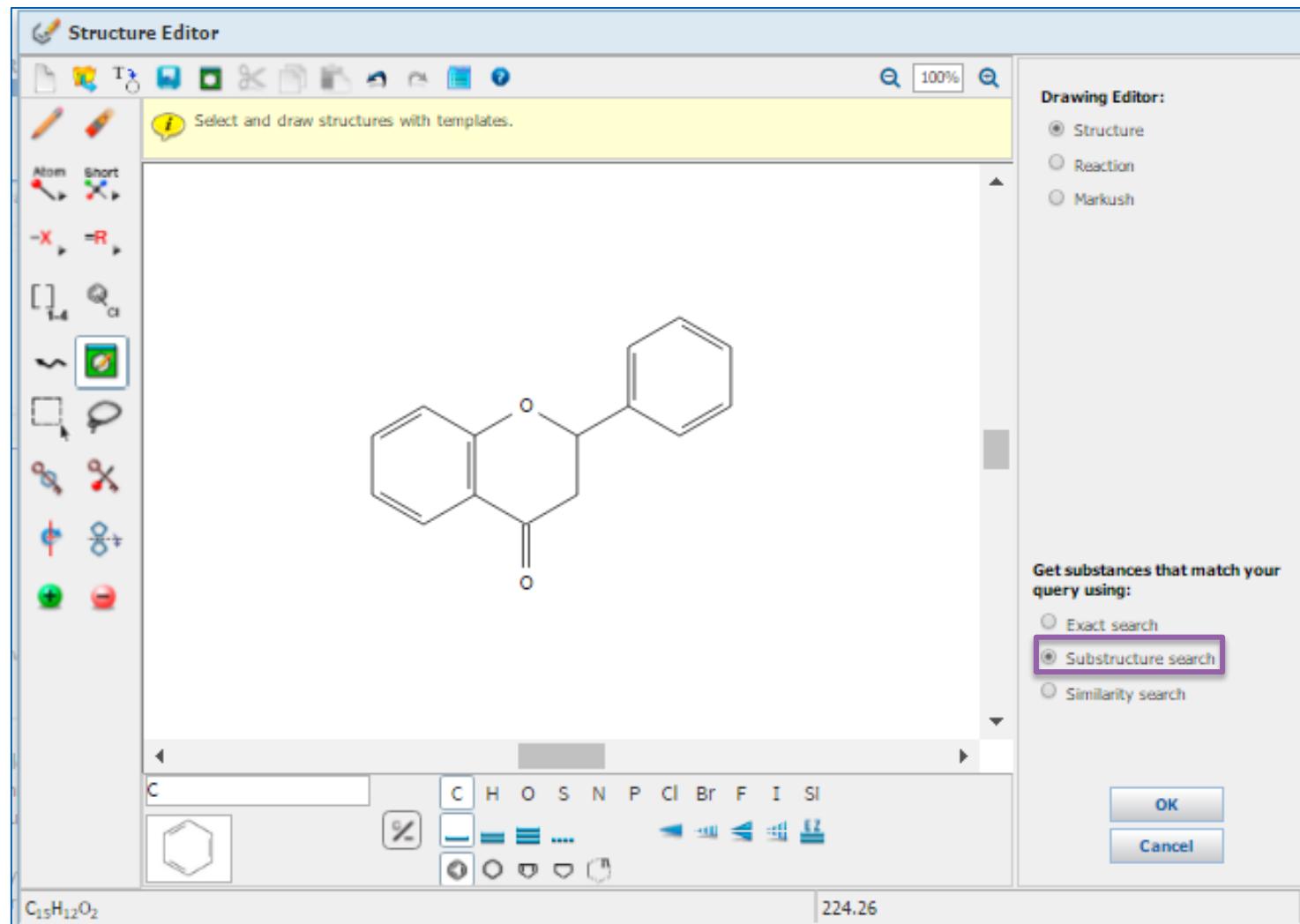
物质检索——精确结构检索

- 精确结构检索：

获得被检索结构的盐，混合物，配合物，聚合物等，被检结构不能被取代



物质检索——亚结构检索



物质检索——亚结构检索

0 of 23824 Substances Selected

1. 487-26-3

~2093 ~69

C₁₅H₁₂O₂
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-

Key Physical Properties
Regulatory Information
Spectra
Experimental Properties

2. 17002-31-2

~244 ~4

Absolute stereochemistry..Rotation (-).

10. 146196-91-0

~1 ~5

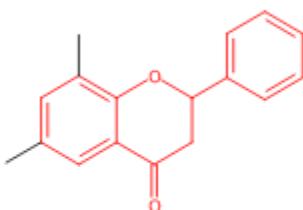
同位素

C₁₅H₇D₅O₂
4H-1-Benzopyran-4-one, 2,3-dihydro-2-(phenyl-d₃)- (9CI)
Spectra

亚结构检索结果

281. 123251-10-5

~3



取代物

C₁₇ H₁₆ O₂

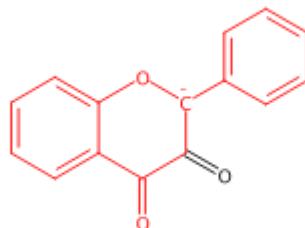
4H-1-Benzopyran-4-one, 2,3-dihydro-6,8-dimethyl

► Key Physical Properties

Experimental Properties

295. 780723-19-5

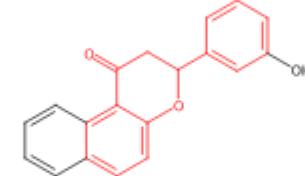
~0



离子

284. 136116-23-9

~2



稠环物质

C₁₅

H₉

O₃

2H-1-Benzopyran-3,4-dione, 2-phenyl-, ion(1-)

C₁₉ H₁₄ O₃

1H-Naphtho[2,1-*b*]pyran-1-one, 2,3-dihydro-3-(3-hydroxyphenyl)-

► Key Physical Properties

亚结构检索结果的限定

Analysis Refine

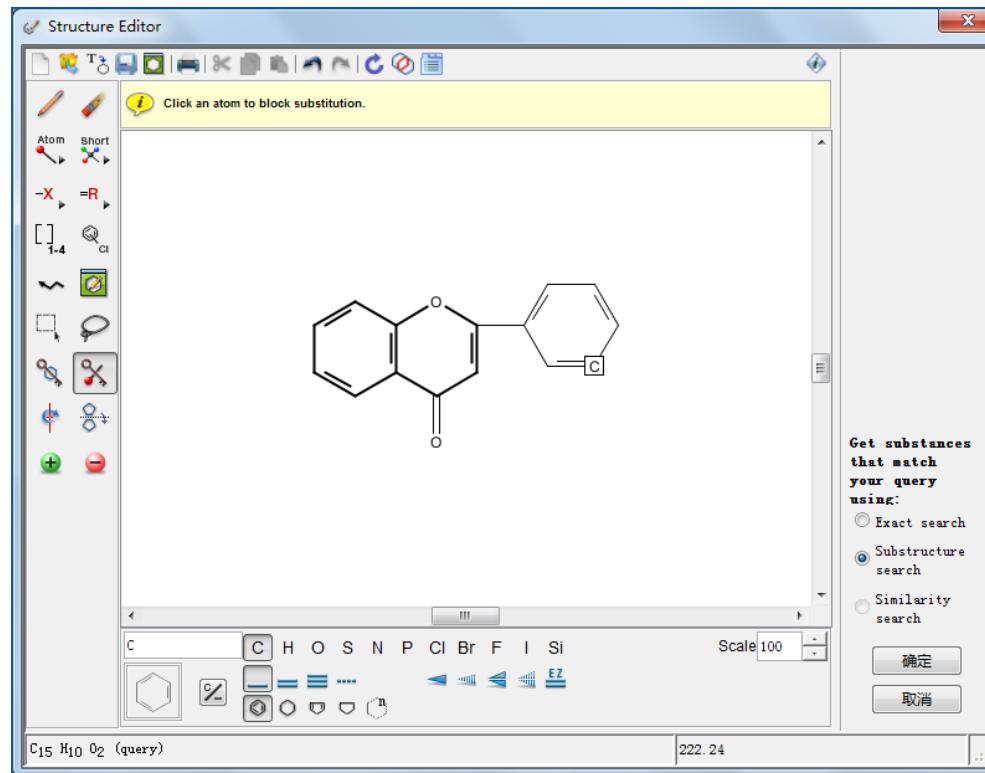
Refine by: Chemical Structure Isotope-Containing Metal-Containing Commercial Availability Property Availability Property Value Reference Availability Atom Attachment

Chemical Structure:

Click image to change structure or view detail

Search type: Substructure

化学结构的再次限定



环锁定



原子锁定

亚结构检索结果的限定

Structure Editor:

Java **Non-Java**

Click image to change structure or view detail.

Search type: **Substructure**

Only retrieve substances that:

- Have references
- Are commercially available
- Are a single component
- Are in specific substance classes
- Are in specific types of studies

Refine

Get References Get Reactions Get Commercial Sources Tools

Sort by: Relevance

0 of 13826 Substances Selected

1. 487-26-3

~2093

C₁₅H₁₂O₂
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-

Key Physical Properties
Regulatory Information
Spectra
Experimental Properties

2. 17002-31-2

~244

Absolute stereochemistry.,Rotation (-).

C₁₅H₁₂O₂
4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl-, (2S)-

Key Physical Properties
Experimental Properties

4. 104550-32-5

~3

5. 75524-43-5

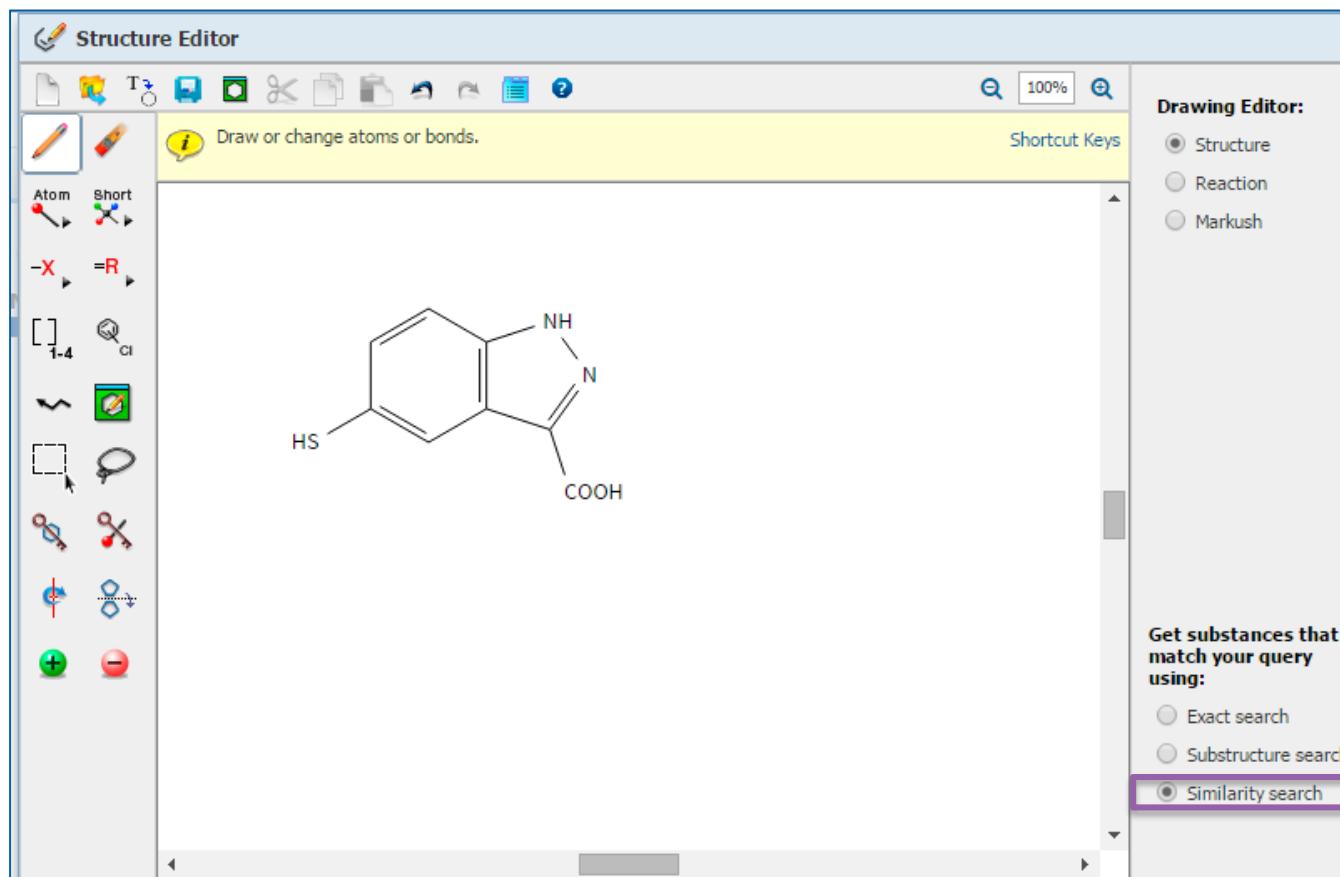
~2

物质检索——亚结构检索

- 亚结构检索：

包括精确结构检索结果，及被检索结构的修饰结构

物质检索——相似结构检索



相似结构检索结果

Select All Deselect All

0 of 6 Similarity Candidates Selected

Get Substances

评分越高，相似度越高，结构越相似

Score: 88

1. 885518-94-5



The chemical structure of 2-hydroxy-3-methylindole is shown. It consists of an indole ring system where the 2-position has a hydroxyl group (-OH) and the 3-position has a methyl group (-CH₃).

C₈H₆N₂O₃
1*H*-Indazole-3-carboxylic acid, 5-hydroxy-

► Key Physical Properties

取代基变化

Score: 86

5. 858227-12-0



The chemical structure shows a 2-methylphenyl ring fused to a pyrazole ring. The pyrazole ring has an NH group at position 4 and a carboxylic acid group (-COOH) at position 5. There is also a methyl group at position 2 of the pyrazole ring.

C₉H₈N₂O₂
1*H*-Indazole-3-carboxylic acid, 6-methyl-

► Key Physical Properties

取代基位置变化

Score: 65

541. 1100422-



母体结构变化

The chemical structure shows a 1,2-dihydro-3H-pyrazole ring system. At position 5, there is a 4-fluorophenyl group. At position 1, there is a hydroxymethyl group (CH_2OH). The carbonyl carbon at position 3 is also bonded to a hydrogen atom.

C₁₃H₉FN₂O₂
1*H*-Benz[*g*]indazole-3-carboxylic acid, 8-fluoro-1-methyl-

► Key Physical Properties

物质检索——相似结构检索

- 相似结构检索：

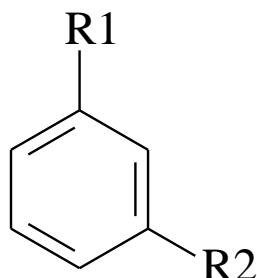
获得片段或整体结构与被检索结构相似的结果，母体结构可以被取代，也可以被改变

提纲

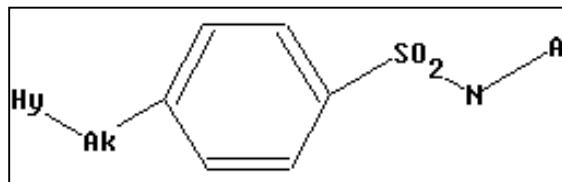
- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

Markush检索

- 具体物质[Specific Substance]：
 - 以具体化学结构陈述的特定物质，会被分配CAS RN
 - 预测性物质[Prophetic Substance]：
 - 使用Markush结构陈述的预测物质，一个Markush可以陈述上百或上千个化学物质
 - 专利中所陈述的预测物质，不会被分配CAS RN
 - Markush检索，能检索到通过结构检索检不到的专利



R1 = H, Br, Cl, I



可用SciFinder中的Markush检索
查看专利中化合物结构保护范围。

Structure Editor

Draw or change atoms or bonds.

Shortcut Keys

Drawing Editor:

- Structure
- Reaction
- Markush

Get Markush patents where the structure(s) are:

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

OK

Cancel



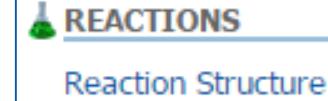
提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

SciFinder检索选项——反应检索

- 反应检索方法

- 结构式



- 常用获取方法

- 已知物质：由物质获取反应

- 已知文献：从文献中获取反应

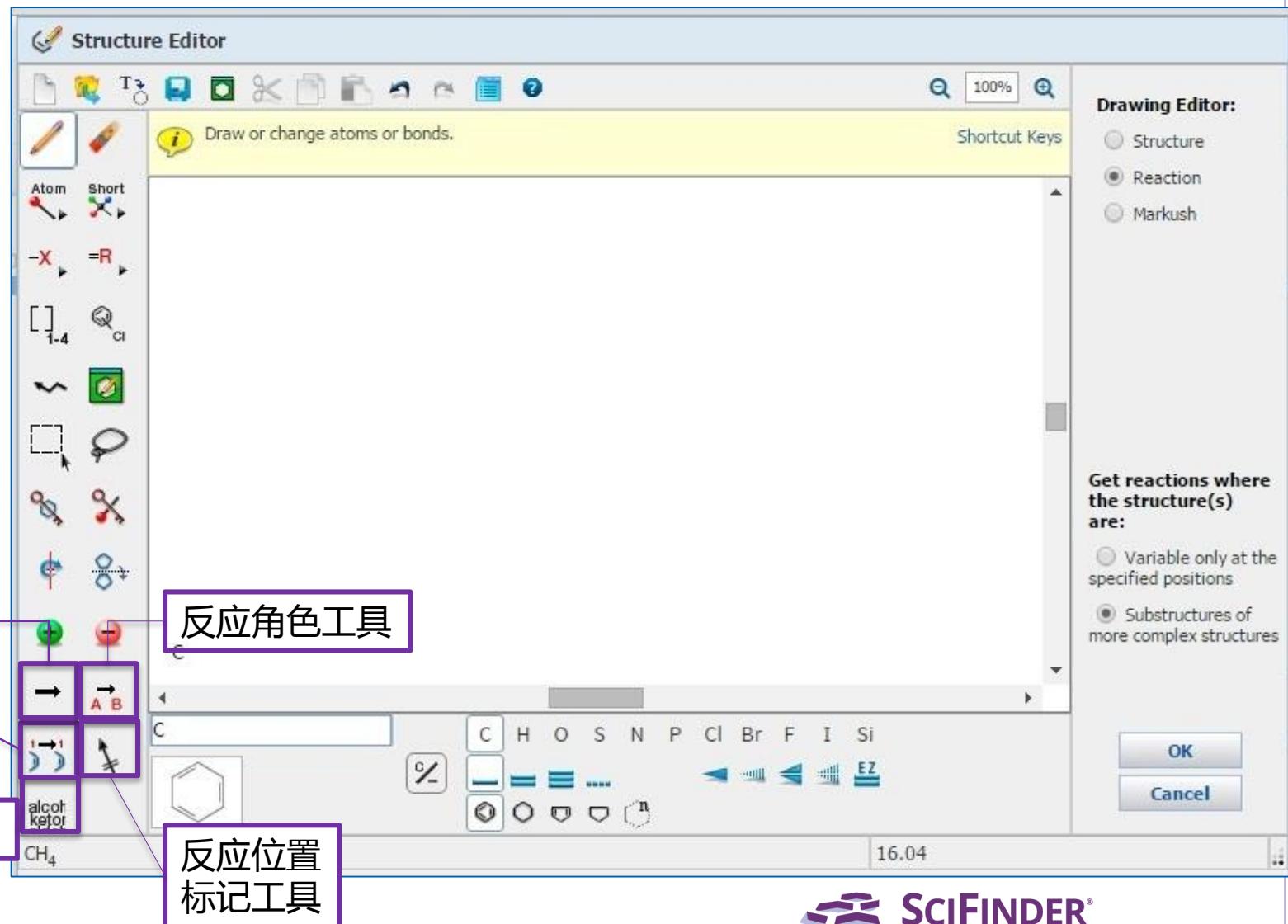
- 精确结构反应检索

- 亚结构反应检索

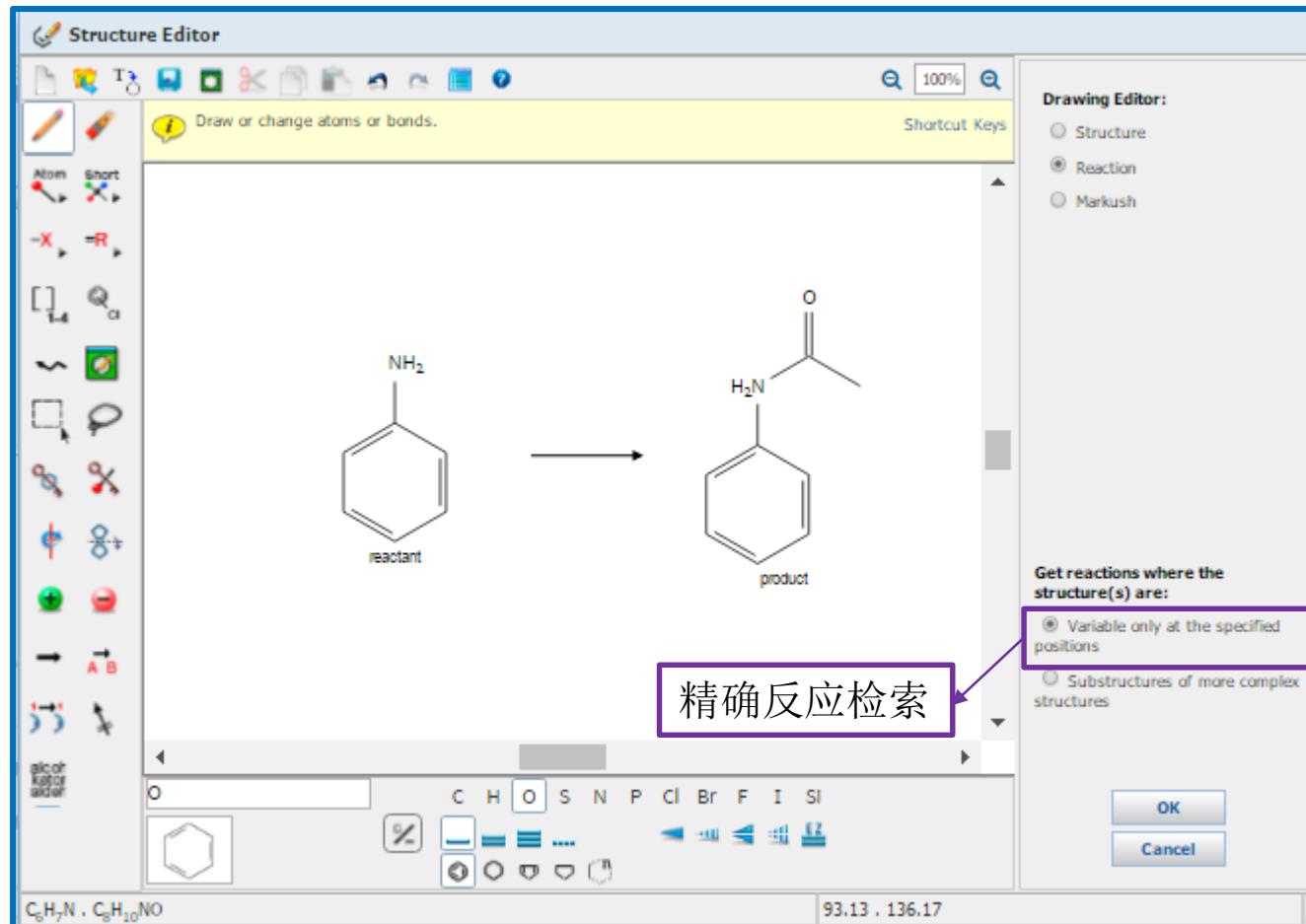
Get reactions where
the structure(s)
are:

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

反应绘制工具



SciFinder反应检索——精确反应检索



反应检索结果

浏览记录，发现很多反应来自同一篇文献，
通过Group by Document合并。

Group by: No Grouping ▾ Sort by: Relevance ▾

No Grouping
Document Selected
Transformation

1. View Reaction Detail Similar Reactions

Single Step Hover over any structure for more options.

Reaction scheme:

+
→
98%
~128

▼ Overview

Steps/Stages

1.1 R:H₂O, R:O₂, C:SiO₂ (sulfuric acid), C:H₂SO₄ (silica), 2 h, 120°C, 1 atm

Notes

green chemistry-reagent, silica supported and used, no solvent, aerobic, optimization optimized on temperature, Reactants: 2, Most stages in any one step: 1

References

获取相似反应

选择相似反应的相似限制：

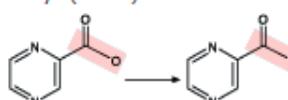
- Broad : 仅反应中心相似
- Miedum : 反应中心及附属原子和键
- Narrow : 反应中心及扩展的原子和键

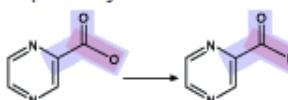
Get Similar Reactions ?

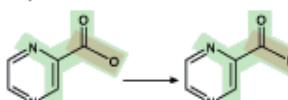
Retrieve similar reactions from:

All reactions
 Current answer set

Include this level of similarity:

Broad - Reaction centers only (2934)


Medium - Reaction centers plus adjacent atoms and bonds (109)


Narrow - Reaction centers plus extended atoms and bonds (95)


Get Reactions **Cancel**

按照反应类型排序

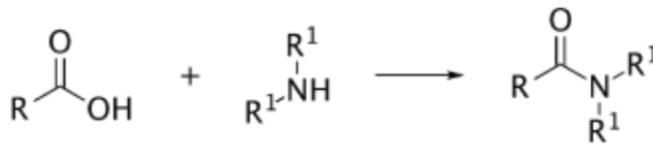
Group by: Transformation ▼ Sort by: Frequency ▼

0 of 605 Reactions Selected

1. Acylation of Nitrogen Nucleophiles by Anhydrides or Dicarbonates
188 Reactions

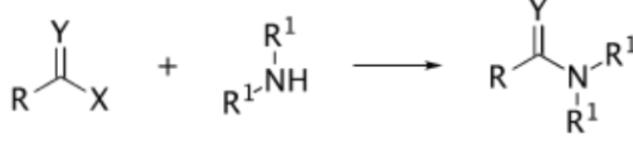


2. Acylation of Nitrogen Nucleophiles by Carboxylic Acids
81 Reactions



更精确的查找需要的反应

3. Acylation of Nitrogen Nucleophiles by Acyl/ Thioacyl/ Carbamoyl Halides and Analogs
55 Reactions



$Y = O, S, NR'$

反应检索结果的筛选

Analyze Refine

Group by: No Grouping Sort by: Relevance ↴

Analyze by: Solvent

H ₂ O	99
CH ₂ Cl ₂	65
MeCN	55
THF	27
PhMe	26
AcOH	25
CHCl ₃	22
DMF	15
DMSO	15
Me ₂ CO	15

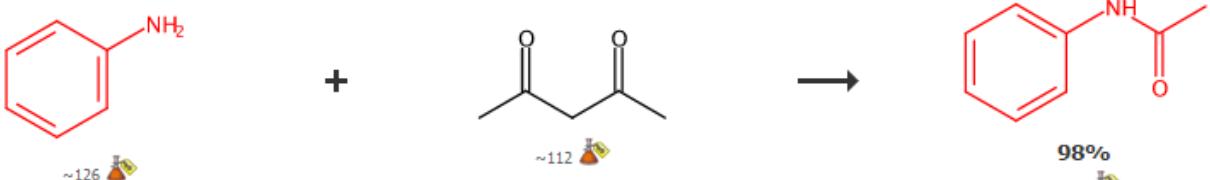
Show More

0 of 606 Reactions Selected

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

Single Step Hover over any structure for more options.

筛选用水作溶剂的反应



Overview

Steps/Stages

1.1 R:H₂O, R:O₂, C:SiO₂ (sulfuric acid), C:H₂SO₄ (silica), 2 h, 120°C, 1 atm

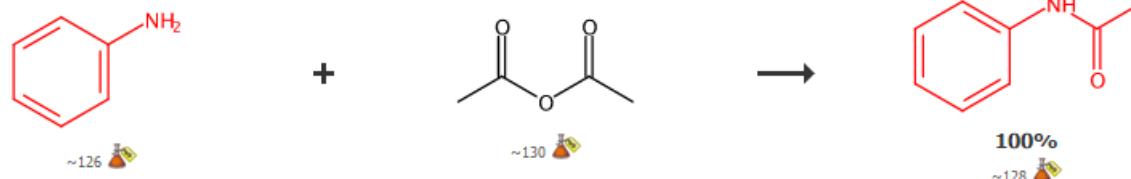
Notes

green chemistry-reagent, silica supported and used, no solvent, aerobic, optimization optimized on temperature, Reactants: 2, Most stages in any one step: 1

References

Silica sulfuric acid mediated acylation of a

SciFinder囊括最大的反应实验过程合集



▼ Overview

Steps/Stages

1.1 S:CH₂Cl₂, 20-120 min, rt

Notes

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

References

Indole Synthesis via Rhodium Catalyzed Oxidative Coupling of Acetanilides and Internal Alkynes

Quick View Other Sources

By Stuart, David R. et al

From Journal of the American Chemical Society, 130(49), 16474-16475; 2008

不用阅读全文，直接获得包含
实验过程的反应记录

▼ Experimental Procedure

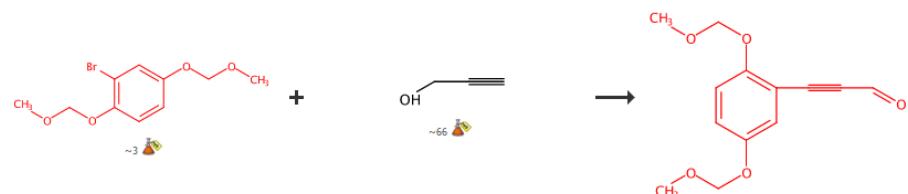


Representative procedure for the preparation of acetanilides: Aniline (10.1 mL, 109.7 mmol, 1 eq) was added to a round-bottom flask via syringe and fitted with a rubber septum. The flask was purged with argon and dry DCM (300 mL, 0.4 M) was added. Acetic anhydride (12.5 mL, 132.2 mmol, 1.2 eq) was added and the reaction was stirred at room temperature and monitored by TLC. Upon completion (generally a couple of hours, but as short as 20 minutes) the reaction mixture was washed with a saturated solution of sodium carbonate, the organic layers dried with MgSO₄ and the solvent removed under reduced pressure. The product was obtained in quantitative yield (14.8 g). In most cases analytically pure acetanilides can be obtained after extraction however if necessary purification by flash chromatography with ethyl acetate/pet. ether was used (see below for specific conditions). **Acetanilide (1a):** The above procedure was followed to afford the product in quantitative yield. This compound can also be purchased from commercial sources (CAS: 103-84-4). **¹H NMR (400 MHz, CDCl₃, 293 K):** δ 7.50 (d, *J* = 7.8 Hz, 2H), 7.32 (*t*, *J* = 7.9 Hz, 2H), 7.10 (*t*, *J* = 7.4 Hz, 1H), 2.17 (s, 3H). The signal for the exchangeable NH does not appear in the spectrum.



SciFinder囊括最大的反应实验过程合集

2 Steps Hover over any structure for more options.



Overview

Steps/Stages

- 1.1 C:Pd(PPh_3)₄, S:BuNH₂, 21 h, 100°C
- 2.1 R:DMSO, R:Cl(O=)CC(=O)Cl, S:CH₂Cl₂, 15 min, -78°C
- 2.2 S:CH₂Cl₂, -78°C; 2 h, -78°C
- 2.3 R:Et₃N, 30 min, -78°C; -78°C → rt
- 2.4 R:LiCl, 20 min, rt

Notes

- 1) key step, alternate catalyst concentration, catalyst (CuI) and temperature yield, Sonogashira coupling, 2) key intermediate, Swern oxidation, scale method shown, Reactants: 2, Reagents: 5, Catalysts: 1, Solvents: 2, Stages: 5, Most stages in any one step: 4

Experimental Procedure: 我们可以做得更好

- 更好的阅读体验?
- 这些数字代表什么?
- 去免费的Supporting Information查? 可能只有图谱。

Experimental Procedure

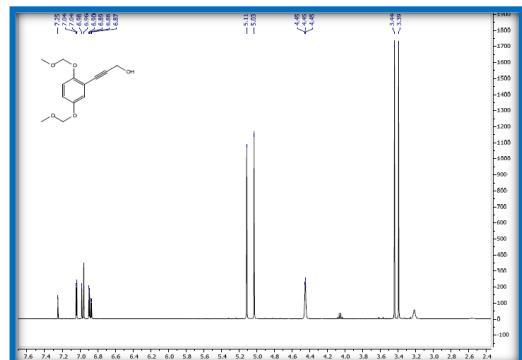
NATURAL PRODUCTS

Step 1

General Procedure for the Sonogashira Coupling.^{8,10,11} Compounds **6a**³¹ and **16**⁸ were synthesized according to literature procedures. Aryl halide **6a** or **16** (9.21 mmol) in n-butylamine (6.4 mL) was placed in a flame-dried round-bottomed flask under an argon atmosphere. A mixture of terminal alkynes **7**, **25**, **26**, or **27** (9.21 mmol) in n-butylamine (10 mL) and Pd(Ph_3)₄ (5% or 3%) was added, with the optional addition of CuI (3%) where appropriate. The mixture was heated for 21 h at 98 °C and poured into H₂O (80 mL). The product was extracted with EtOAc (3 × 80 mL). The combined organic layers were washed with brine, dried over anhydrous Na₂SO₄, and evaporated under reduced pressure. The crude product was purified by silica gel column chromatography (EtOAc/hexanes, 10–50%). β -[2,5-Bis(methoxymethoxy)phenyl]prop-2-yn-1-ol⁴² (**8**). Yield 96%; colorless oil. IR (KBr) ν_{max} 3310, 2230 cm⁻¹; ¹H NMR (CDCl₃, 400 MHz) δ 3.46 (3H, s, H-4b), 3.51 (3H, s, H-1b), 4.51 (2H, s, H-1a), 5.09 (2H, s, H-4a), 5.17 (2H, s, H-1a), 6.95 (1H, dd, J = 9 and 3.0 Hz, H-5), 7.03 (1H, d, J = 9.0 Hz, H-6), 7.10 (1H, d, J = 3.0 Hz, H-3); ¹³C NMR (CDCl₃, 100 MHz) δ 51.81 (C-9), 56.05 (C-4b), 56.38 (C-1b), 81.74 (C-7), 91.56 (C-8), 95.14 (C-4a), 95.88 (C-4b), 114.19 (C-2), 117.13 (C-5), 118.50 (C-3), 121.20 (C-6), 151.95 (C-4), 153.06 (C-1); HRESIMS m/z 275.0900 [M + Na]⁺ (calcd for C₁₃H₁₆O₅ 275.0896).

Step 2

Generation of the Key Aldehyde.¹⁷ Oxalyl chloride (272.3 μ L, 3.12 mmol) in dry CH₂Cl₂ (9 mL) was added to a stirred solution of DMSO (332 μ L, 4.68 mmol) in dry CH₂Cl₂ (1.5 mL) under an argon atmosphere at -78 °C. The mixture was stirred for 15 min, and the alcohol **8** (393.5 mg, 1.56 mmol) or alcohol **17** (300 mg, 1.56 mmol) in dry CH₂Cl₂ (12 mL) was added dropwise (Note: Swern oxidation could be scaled-up to 1.56 mmol of starting material). After the starting material had been consumed (nearly 2 h), Et₃N (1.88 mL, 7.8 mmol) was added. The reaction mixture was stirred at -78 °C for a further 30 min and was allowed to warm to rt and quenched with saturated NH₄Cl and H₂O, and the mixture was stirred for 30 min. The organic phase was decanted off, and the aqueous layer was extracted with CH₂Cl₂ (3 × 30 mL). The combined organic layers were washed with brine, dried over anhydrous Na₂SO₄, and evaporated under reduced pressure. β -[2,5-Bis(methoxymethoxy)phenyl]prop-2-ynal⁴³ (**9**). Yield 91%; colorless oil. IR (KBr) ν_{max} 1660, 2194 cm⁻¹; ¹H NMR (CDCl₃, 400 MHz) δ 3.46 (3H, s, H-4b), 3.51 (3H, s, H-1b), 5.10 (2H, s, H-4a), 5.21 (2H, s, H-1a), 7.09 (1H, dd, J = 9.2 and 1.2 Hz, H-6), 7.12 (1H, dd, J = 9.1 and 2.2 Hz, H-5), 7.22 (1H, dd, J = 2.2 and 1.3 Hz, H-3), 9.44 (1H, s, H-9); ¹³C NMR (CDCl₃, 100 MHz) δ 56.18 (C-4b), 56.54 (C-1b), 92.05 (C-8), 92.27 (C-7), 95.22 (C-4a), 95.58 (C-1a), 110.70 (C-2), 116.72 (C-6), 122.0 (C-5), 122.09 (C-3), 151.85 (C-4), 154.88 (C-1), 176.92 (C-9); HRESIMS m/z 273.0741 [M + Na]⁺ (calcd for C₁₃H₁₄O₅ 273.0739).



MethodsNow Synthesis

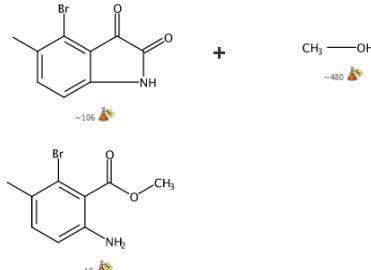
MethodsNow

A New Method for Synthesis of Nolatrexed Dihydrochloride

By Zhao, Xueqing; Li, Fei; Zhang, Weiping; Xue, Xiaowen; Lian, Yuanyang; Fan, Jianhui; Fang, Dongsheng
From Organic Process Research & Development, 14(2), 346-350; 2010
Published by American Chemical Society

Reaction Steps

1 2 3



1 →

Products	Benzolic acid, 6-amino-2-bromo-3-methyl-, methyl ester, 84%, CAS RN: 147149-88-0
Reactants	1H-Indole-2,3-dione, 4-bromo-5-methyl-, CAS RN: 147149-84-6 Methanol, CAS RN: 67-56-1
Reagents	Potassium persulfate, CAS RN: 7727-21-1 Sodium methoxide, CAS RN: 124-41-4 Hydrochloric acid, CAS RN: 7647-01-0 Sodium dithionite, CAS RN: 7775-14-6
Solvents	Methanol, CAS RN: 67-56-1 Water, CAS RN: 7732-18-5
Procedure	<ol style="list-style-type: none">Add sodium methoxide (22.6%, 4.80 kg, 20.1 mol) to a mixture of 4-bromo-5-methylisatin (6.67 mol) and anhydrous methanol (6.70 L).Add K₂S₂O₈ (1.90 kg, 7.03 mol) to the mixture in parts 10°C with an ice-water bath.After addition the reactant mixture turns yellow, continue the stirring for 1 hour at room temperature.Adjust the reaction mixture to pH 8-9 with aqueous 36% HCl (1.24 L) 15 °C.Destroy the excessive K₂S₂O₈ by aqueous 5% Na₂S₂O₃ solution (450 mL).After rotary evaporation under a reduced pressure at 55 °C, Leave a brown liquid.Mix the mixture with CH₂Cl₂ (6 L) and H₂O (4 L).Separate the organic phase.Extract the aqueous phase with CH₂Cl₂ (4 L).Dry the combined organic phases over Na₂SO₄.Concentrate the combined organic phases with a rotavapor.Distill the resulted brown liquid under high vacuum.
Scale	milligram
¹ H NMR	CDCl ₃ : δ 2.28 (s, 3 H, Ar-CH ₃), 3.91 (s, 3 H, -OCH ₃), 4.26 (br s, 2 H, NH ₂), 6.54 (d, J= 8.2 Hz, 1 H, Ar-H), 7.00 (d, J= 8.2 Hz, 1 H, Ar-H).
IR	KBr cm ⁻¹ : ν 3472, 3382, 2953, 2924, 1716, 1622, 1480, 1277, 816.

物质信息

实验过程

图谱信息



亚结构反应检索

通过C-H活化对苯并噻唑或者恶唑进行烷基化

Structure Editor

Draw or change atoms or bonds.

Atom Short
-X =R

R1

Atoms

R1 = O, S

Variables

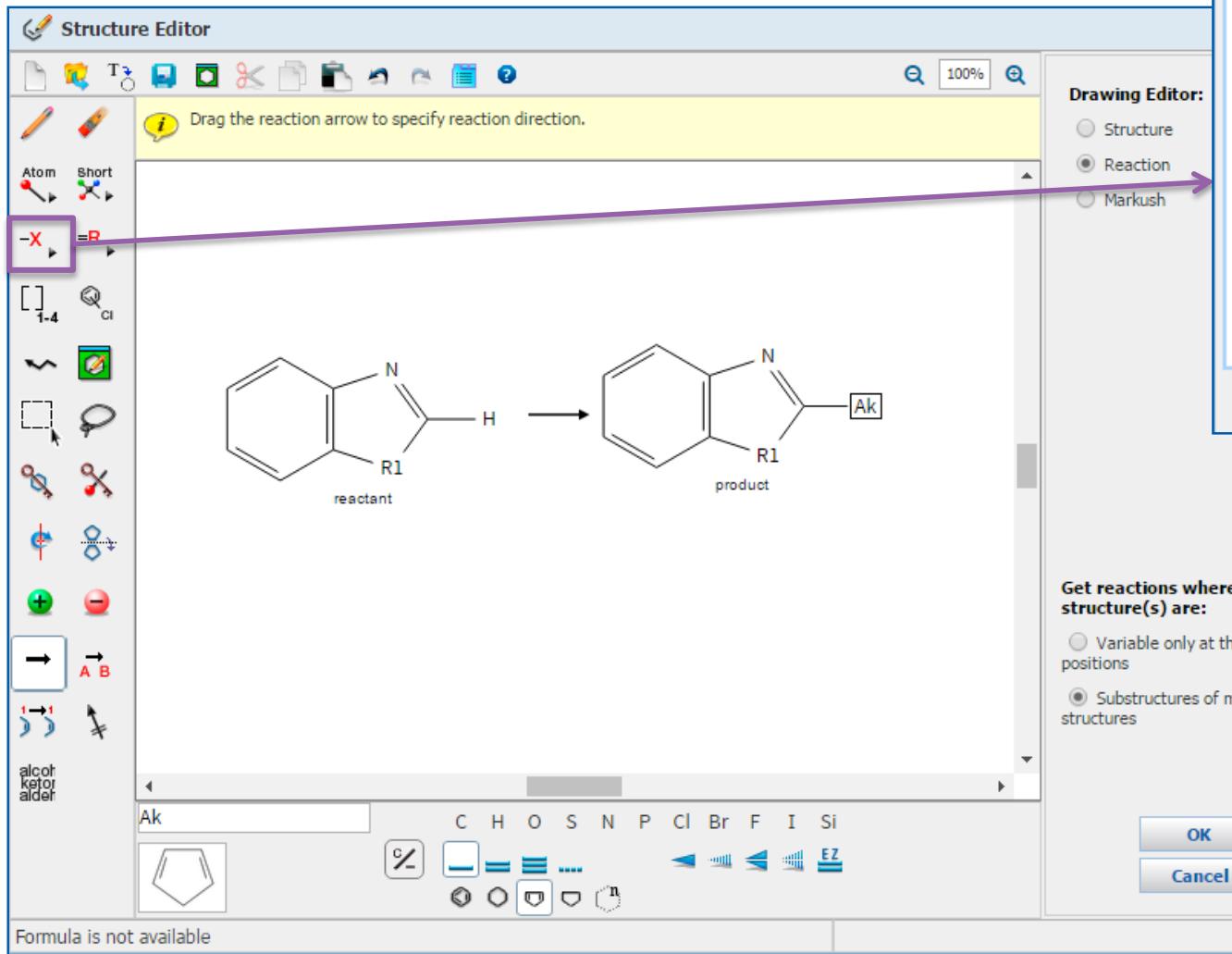
Shortcuts

Close Cancel

Formula is not available

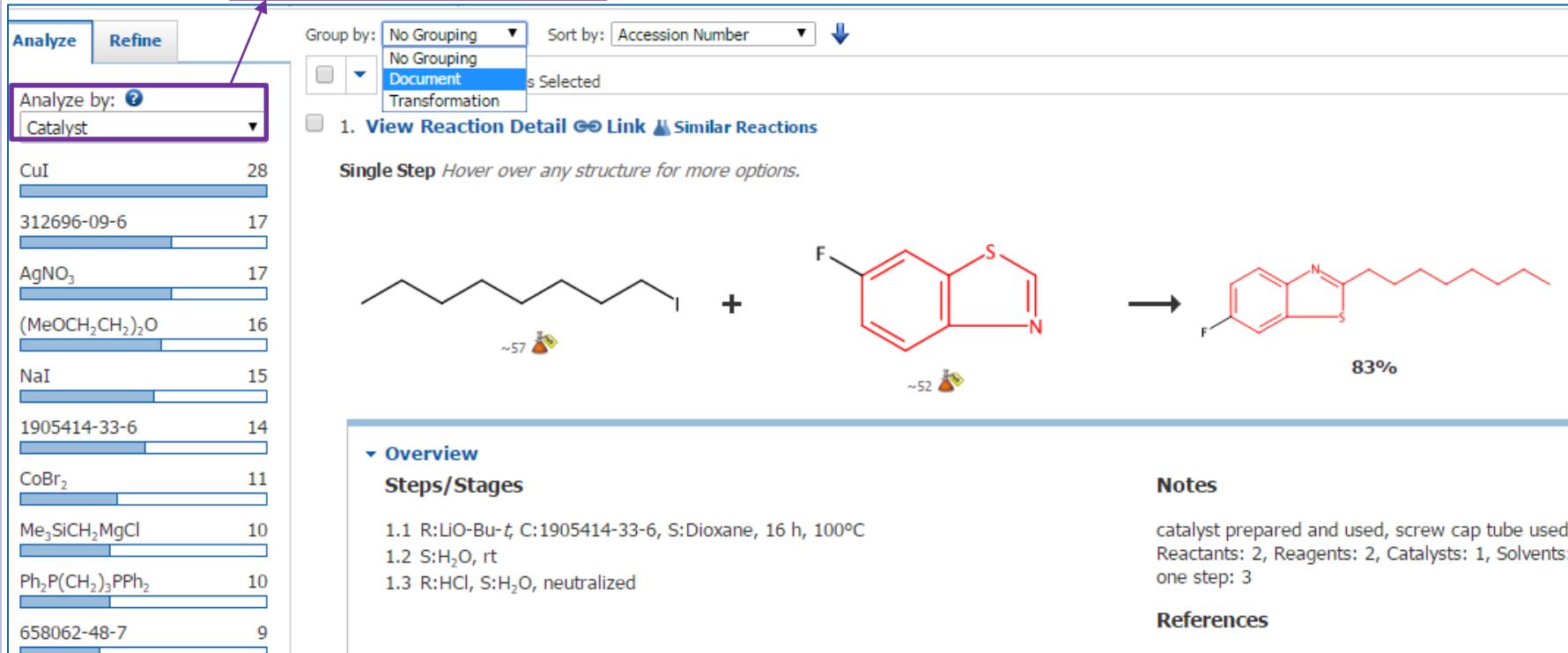
The screenshot shows the SciFinder Structure Editor interface. On the left is the main workspace with a toolbar and a 'Structure Editor' tab. In the center, there's a chemical structure of a benzothiazole derivative with an 'R1' group at the 2-position. Below it is a 'R-group Definitions' dialog box. The 'Atoms' section of this dialog shows a periodic table where Oxygen (O) and Sulfur (S) are highlighted in purple. A purple arrow points from the 'R1' input field in the main editor to the 'Atoms' grid in the dialog. The 'R1' input field in the main editor also contains 'O, S'.

亚结构反应检索



通过后处理工具筛选反应--Analyze

通过催化剂筛选反应



ACS / Proprietary and Confidential / Do Not Distribute

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

SciPlanner使用简介

勾选想要的反应

3 Steps Hover over any structure for more options.

Send to SciPlanner

Display Options

进入SciPlanner 新建文件

将刚推送过来的反应拖至编辑面板

The screenshot shows the SciPlanner software interface. At the top, there is a reaction scheme with two reactants and one product. The first reactant is 4-nitro-2-chloropyridine (~192). The second reactant is 4-methoxybenzenethiol (~72) labeled as [Step 2.1]. The product is 4-(4-methoxybenzylthio)-2-nitro-6-chloropyridine. Below the reaction scheme, there is an 'Overview' section with 'Steps/Stages' and 'Notes'. The 'Steps/Stages' section lists three steps: 1.1 R:NH₃, R:^tBuOK, R:^tBuOOH, S:THF; 2.1 R:Nah, S:THF; 3.1 R:^tCl₃, reflux. The 'Notes' section states: Reactants: 2, Reagents: 5, Solvents: 1, Steps: 3, Stages: 3, Most stages in any one step: 1. In the bottom left, there is a 'Workspace' menu with options: New, Open, Save, Duplicate, Import, Export, Print, Close. The workspace itself is empty, displaying the message 'Your Workspace is empty.' and instructions to drag items from the reference, substance, and reaction libraries. On the right side, there is a reference library panel showing the reaction scheme.



SciPlanner使用简介

The screenshot shows the SciPlanner software interface. At the top, there is a menu bar with options like Workspace, Edit, View, GoTo, and a CAS Registry Number field (13091-23-1) with a dropdown menu. The dropdown menu includes options such as View Substance Detail, Explore by Structure, Synthesize this..., Get Reactions where Substance is a, Get Commercial Sources, Get Regulatory Information, Get References, Export as Image, and Export as molfile. A pink callout box points to the 'Synthesize this...' option with the text: '打开中间产物的标准菜单 选择Synthesis this'.

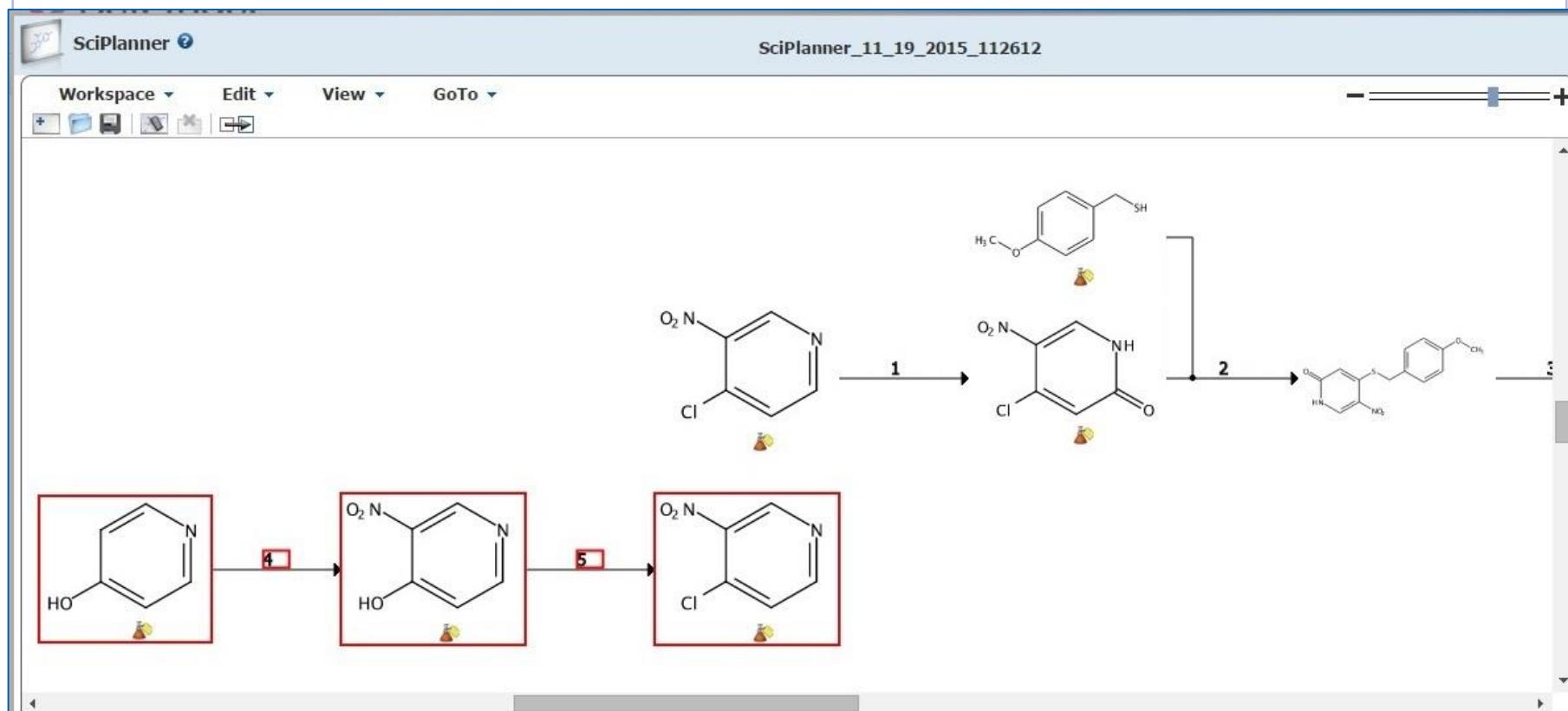
In the center, there is a reaction scheme showing a multi-step synthesis. Step 1: 4-chloro-2-nitrobenzene reacts with a reagent to form 4-chloro-2-nitrobut-3-en-2-one. Step 2: This intermediate reacts with 4-(4-methoxyphenyl)thioether to form 4-(4-methoxyphenyl)-2-nitro-5-thiobut-2-en-3-one. Step 3: Further reaction leads to 4-(4-methoxyphenyl)-2-nitro-5-thiobut-2-en-3-one. Below the reaction scheme, there is a list of reactions with a checkbox next to each. One reaction is selected, indicated by a pink callout box with the text: '在检索到的反应中选择感兴趣的反应'.

At the bottom, there is a search bar with 'Group by: No Grouping' and 'Sort by: Accession Number'. There are also 'Send to SciPlanner' and 'Display Options' buttons. A pink callout box points to the 'Send to SciPlanner' button with the text: '继续推送到SciPlanner'.

Below the search bar, there is a reaction scheme showing the conversion of 4-hydroxypyridine to 4-chloro-2-nitropyridine. The starting material is 4-hydroxypyridine (~161). The product is 4-chloro-2-nitropyridine (~192).



SciPlanner使用简介



步骤同前，将推送过来的反应拖到编辑面板中，可以看到两条反应中存在同样的结构



SciPlanner使用简介

SciPlanner ? SciPlanner_11_19_2015_112612

Workspace Edit View GoTo

New Open Save Duplicate Import Export Print Close

点击 Workspace , 选择 Export 导出结果

用鼠标将两个同样的结构拖至重叠 , 两条反应合并

选择适当的输出格式 , 输出结果

The screenshot shows the SciPlanner software interface. On the left, there's a vertical toolbar with options like New, Open, Save, Duplicate, Import, Export (which is highlighted), Print, and Close. The main workspace displays a reaction scheme: 4-nitro-2-pyridinecarboxaldehyde reacts with 2-chloropyridine to form 4-nitro-2-(2-chloropyridin-4-yl)pyridine, which then reacts with 4-chlorobut-1-ene to produce 4-nitro-2-(2-chloro-4-propenyl)pyridine. A pink callout box points to the 'Export' button in the toolbar with the text '点击 Workspace , 选择 Export 导出结果'. Another pink callout box points to the second reaction step with the text '用鼠标将两个同样的结构拖至重叠 , 两条反应合并'. A third pink callout box points to the bottom right of the workspace with the text '选择适当的输出格式 , 输出结果'. To the right of the workspace, a 'Export' dialog box is open. It has sections for 'For:' (Offline Review, Portable Document Format (*.pdf) is selected), 'Details:' (File Name: SciPlanner_11_19_2015_112612, Title is empty), and 'Include:' (checkboxes for SciPlanner Image, Reaction Details, Substance Details, and Reference Details, all are checked). At the bottom right of the dialog box are 'Export' and 'Cancel' buttons.

Export ?

For:

Offline Review

Portable Document Format (*.pdf)
 Citations (*.ris)
 Image (*.png)

Saving Locally

SciPlanner eXchange (*.pkx)

Details:

File Name: *
SciPlanner_11_19_2015_112612

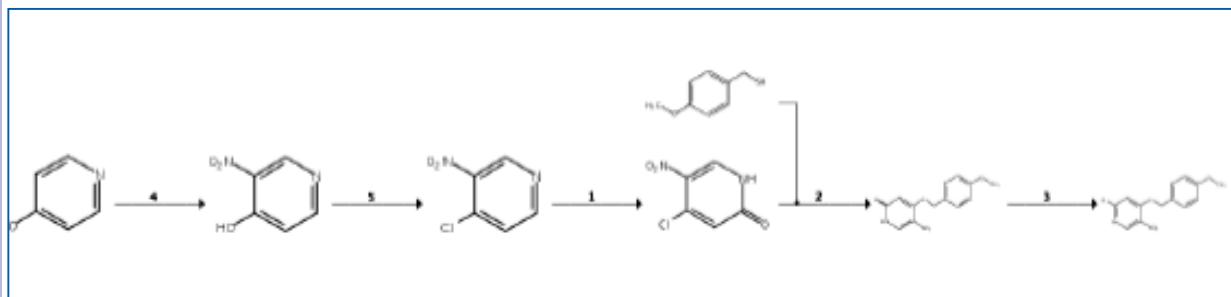
Title

Include:

SciPlanner Image
 Reaction Details
 Substance Details
 Reference Details

Export Cancel

SciPlanner导出结果



Reaction	Stages	Notes	Yield
5	1.1 R:POCl ₃ , S:PhMe, 0°C → rt; 16 h, rt → 110°C 1.2 R:K ₂ CO ₃ , S:H ₂ O, cooled, pH 10	Reactants: 1, Reagents: 2, Solvents: 2, Steps: 1, Stages: 2 Transformation: 1. Formation of Alkyl Halides from Alcohols	90%
References			
High color rendering index and color stable hybrid white efficient OLEDs with a double emitting layer structure using a single phosphorescence dopant of heteroleptic platinum complexes By Poloeck, Anurach et al From Journal of Materials Chemistry C: Materials for Optical and Electronic Devices, 2(48), 10343-10356; 2014			

Substance Information		
1228150-22-8 C ₁₃ H ₁₂ N ₂ O ₄ S 2(1H)-Pyridone, 4-[(4-methoxyphenyl)methyl]thio]-5-nitro-	1228150-23-9 C ₁₃ H ₁₁ ClN ₂ O ₃ S Pyridine, 2-chloro-4-[(4-methoxyphenyl)methyl]thio]-5-nitro-	13091-23-1 C ₆ H ₃ ClN ₂ O ₂ Pyridine, 4-chloro-3-nitro-
Related Info: ~ 2 References Reactions	Related Info: ~ 2 References Reactions	Related Info: ~ 301 References Reactions ~ 180 Commercial Sources Regulatory Information
5435-54-1 C ₆ H ₄ N ₂ O ₃ 4-Pyridinol, 3-nitro-	6258-60-2 C ₈ H ₁₀ OS Benzenemethanethiol, 4-methoxy-	626-64-2 C ₆ H ₅ N O 4-Pyridinol
Related Info: ~ 113 References Reactions ~ 197 Commercial Sources Regulatory Information	Related Info: ~ 749 References Reactions ~ 71 Commercial Sources Regulatory Information	Related Info: ~ 1351 References Reactions ~ 160 Commercial Sources Regulatory Information
850663-54-6 C ₉ H ₇ ClN ₂ O ₃ 2(1H)-Pyridone, 4-chloro-5-nitro-		
Related Info: ~ 22 References Reactions ~ 138 Commercial Sources		

提纲

- 美国化学文摘社简介
- SciFinder简介及检索方式
 - 文献检索
 - 物质检索
 - Markush检索
 - 反应检索
 - SciPlanner
- SciFinder常见问题及解决

SciFinder浏览器选择建议

- Windows 7以上用户建议升级IE到10以上
- Chrome和FireFox浏览器在所有系统上的表现都优于IE浏览器
- 不建议使用360浏览器检索SciFinder，会被自动拦截相关功能或插件



如何获取SciFinder账号

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Tianjin Normal University

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公报》(1902—1949)全文...
Pulse of Research 在线有...

图书馆

回顶部

【所属栏目：外文数据库】

SciFinder Web 数据库
2012-10-06 10:36 图书馆

各位老师同学：

美国化学文摘社现将使用的SciFinder Client升级为SciFinder Web，SciFinder Web将提供更为方便的访问方式、强大的功能和个性化的服务。

SciFinder Web的主要访问方式是每个用户在校园网IP范围内注册个人用户名和密码：

注册地址：
<https://scifinder.cas.org/registration/index.html?corpKey=929CB882X86F35055X20E7407C14AD544E21>

访问地址：<https://scifinder.cas.org> <https://origin-scifinder.cas.org> (教育网)

访问方式：读者必须使用学校的email邮箱地址注册，无并发用户限制。

使用指南：附件



如何获取SciFinder账号

The screenshot shows the registration process for SciFinder. It consists of three main sections:

- Contact Information:** Fields for First Name, Last Name, Email, Confirm Email, Phone Number, Fax Number, Area of Research (dropdown), and Job Title (dropdown).
- Username and Password:** Fields for Username, Password, and Re-enter Password. There are "Tips" links next to the Password and Re-enter Password fields.
- Security Information:** Fields for Security Question (dropdown) and Answer. There is a "Why?" link next to the Answer field.

At the bottom left are two buttons: "Register>>" and "Clear All".

请注意：

1. 必须输入真实姓名和学校域名邮箱。
2. 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)
3. 密码必须包含 7-15 个字符，并且至少包含三种以下字符：
 - 字母
 - 混合的大小写字母
 - 数字
 - 非字母数字的字符（例如 @、#、%、&、*）
4. 从下拉列表中选择一个密码提示问题并给出答案。
单击 Register (注册)。



如何获取SciFinder账号

From: CAS

Dear user,

To complete your SciFinder registration, you must click the link provided below. By clicking the link, you agree to all of the following terms and conditions:

- I will not share my username and password with any other person.
- I will search only for myself and not for others or other organizations.
- I will not use any automated program or script for extracting or downloading CAS data, or any other systematic retrieval of data.
- I may retain a maximum of 5,000 Records at any given time for personal use or to share within a Project team for the duration of the Project.
- My organization's SciFinder License and the CAS Information Use Policies (<http://www.cas.org/legal/infopolicy.html>) apply to my use of SciFinder.
- I will contact my SciFinder Key Contact if I have questions.

If you do not accept these terms and conditions, do not click the link and delete this e-mail message.

<https://scifinder.cas.org/registration/completeRegistration.html?respKey=B8CB6727-86F3-F014-11E6-D312D80AC094>

This link is valid for only one use and will expire within 48 hours.

If you need assistance at any time, consult the key contact at your organization.

打开并阅读 CAS 的电子邮件（必须在48小时内点击，否则需要重新注册）

注意垃圾邮件、未知邮件、订阅邮件等来自@cas.org的邮件



如何获取SciFinder账号



The screenshot shows a registration confirmation page for SciFinder. At the top left is the SciFinder logo with the tagline "...Part of the process™". The main message in the center reads "Registration for SciFinder® is Complete". Below this, there is a success message: "You have successfully completed the registration process." followed by instructions: "To sign in to SciFinder®, click the link below." A blue hyperlink at the bottom provides the URL: <https://scifinder.cas.org/scifinder>.

账号注册成功，登录scifinder.cas.org开始使用SciFinder

SciFinder使用注意事项

- 一人注册一个帐号
- 请提供真实姓名信息
- 严禁过量下载
- 严禁账号分享
- 严禁将账号用于非学术研究



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