

SciFinder Web使用介绍

刘盈盈

SciFinder客户顾问

2014.9

提纲



- 介绍
 - SciFinder Web中的内容
- SciFinder Web中的检索和后处理
 - SciFinder Web中的文献记录及主题检索
 - SciFinder Web中的物质结果及物质检索方法
 - SciFinder Web中的反应记录及反应检索
- SciFinder Web使用常见问题

美国化学文摘社—Chemical Abstracts Service

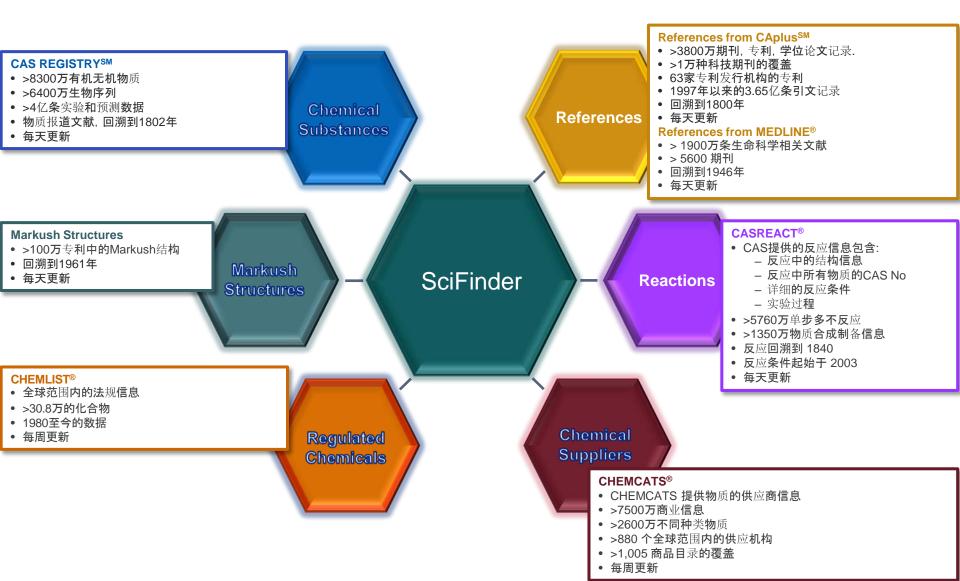
SciFinder®
The choice for chemistry research.™

- •创建于1907年
- •ACS的分支机构
- •密切关注,索引和提炼着全球化学相关的文献和专利
- •最早创立了《化学文摘》
- •总部坐落于俄亥俄州的哥伦布市



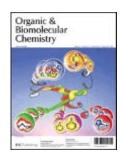
SciFinder的覆盖内容





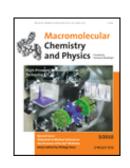


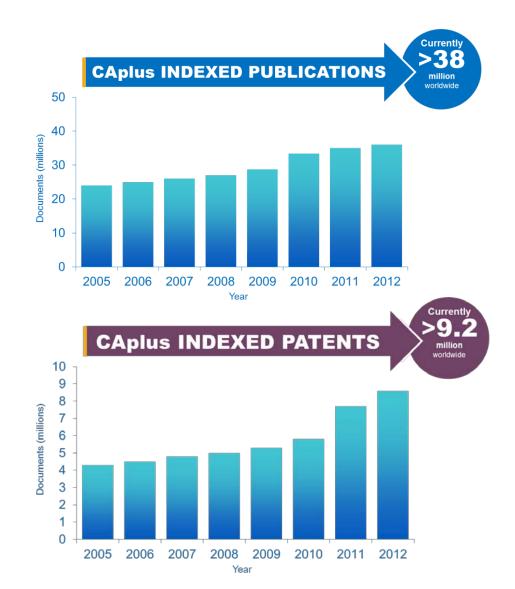




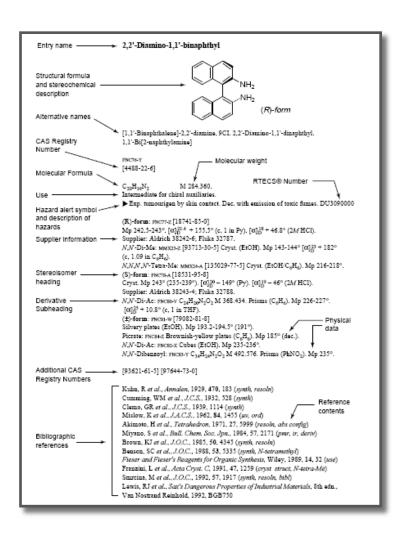


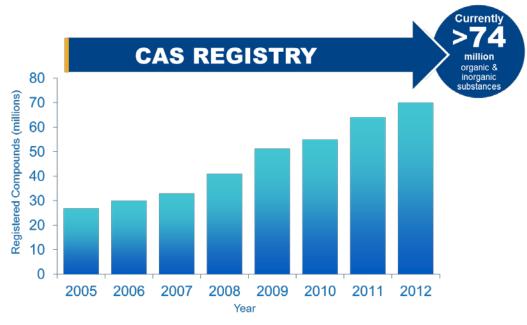






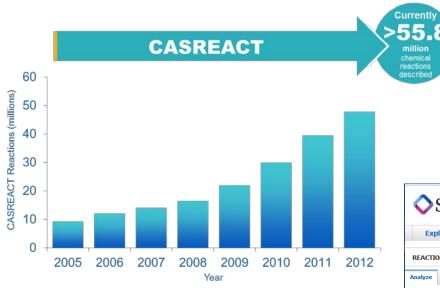
CAS REGISTRYSM 是化学物质信息的"黄金标准" for chemistry research."



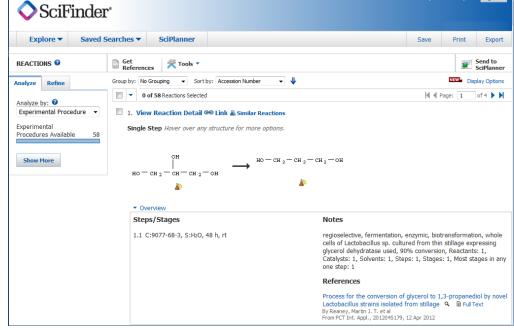




CASREACT® 是检索化学反应最权威的来源



CASREACT是世界上最大的, 更新速度最快的反应数据库



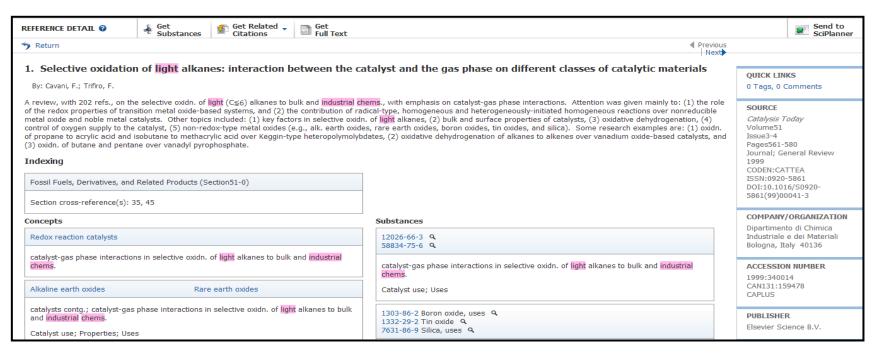
提纲



- 介绍
 - SciFinder Web中的内容
- SciFinder Web中的检索和后处理
 - SciFinder Web中的文献记录及主题检索
 - SciFinder Web中的物质结果及物质检索方法
 - SciFinder Web中的反应记录及反应检索
- SciFinder Web使用常见问题







Citations Bielanski, A; Oxygen in Catalysis 1991 Haber, J; ACS Symp Series 1996, 638, 20 Q Oyama, S; ACS Symp Series 1996, 638, 2 Q Lee, J; Catal Rev-Sci Eng 1988, 30, 249 Q Kung, H; Adv Catal 1994, 40, 1 Q Vedrine, J; Catal Today 1997, 33, 3 Q Vedrine, J; Catal Today 1996, 32, 115 Q Busca, G; Catal Today 1996, 32, 133 Q Cavani, F; Catalysis 1994, 11, 246 Q Albonetti, S; Catal Rev-Sci Eng 1996, 38, 413 Q Sokolovskii, V; Catal Rev-Sci Eng 1990, 32, 1 Q Delmon, B; Catalysts in Petroleum Refining and Petrochemical Industries 1995 1996 Burch, R; J Mol Catal A 1995, 100, 13 Q Schmidt, L; Chem Eng Sci 1994, 49, 3981 Q 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 Q

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

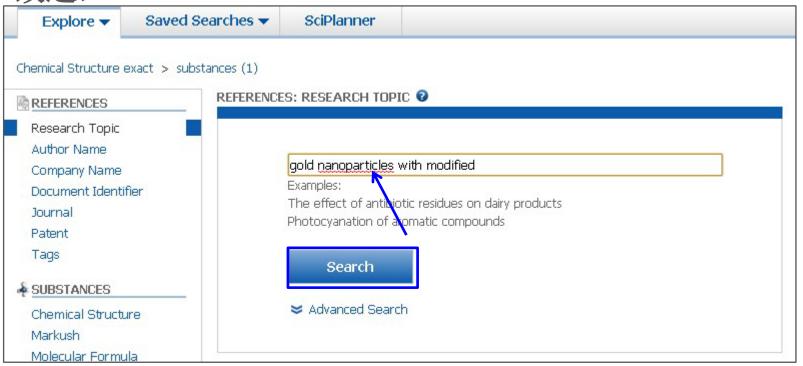
- 关注某特定领域的文献——-主题检索
- 关注某科研人员的文献——-作者名检索



SciFinder Web中的主题检索

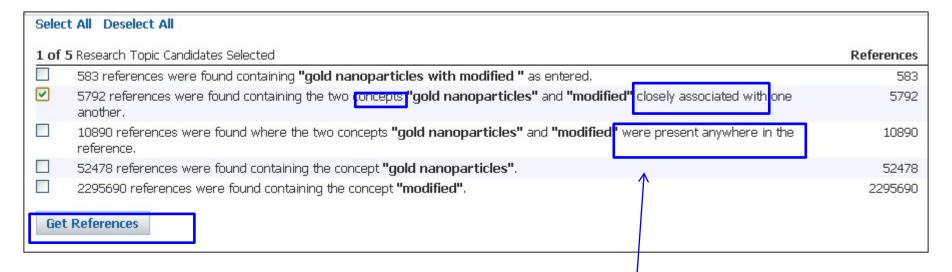
主题: gold nanoparticles with modified (金纳米颗粒的

改进)









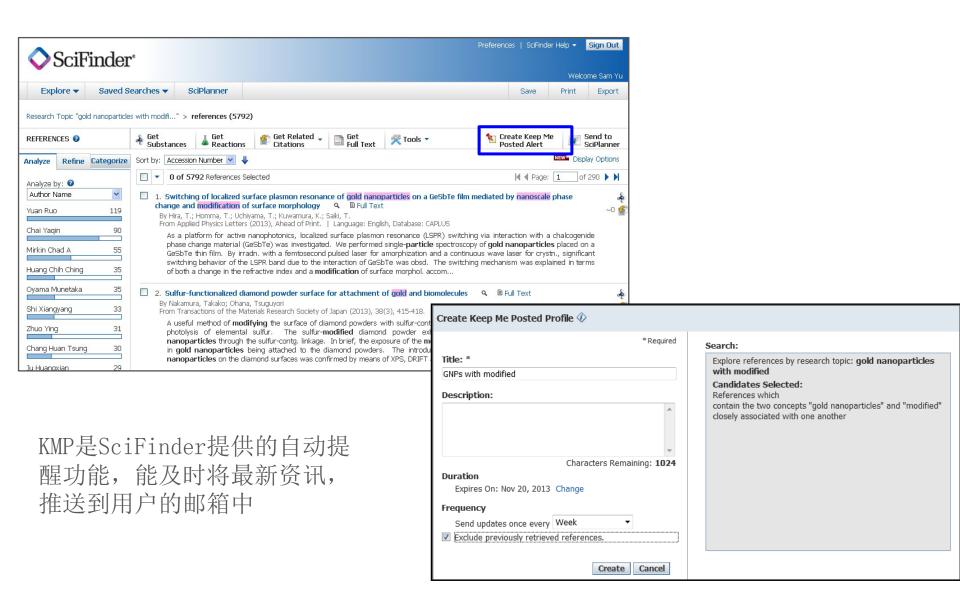
"Concept"表示做了同意词的扩展

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

"present anywhere in the reference" 表示同时出现在一段话中

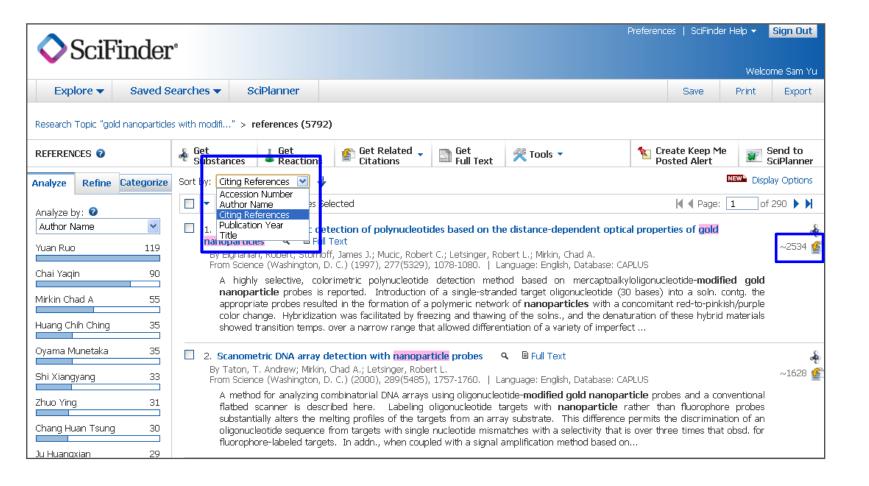
SciFinder中的KMP







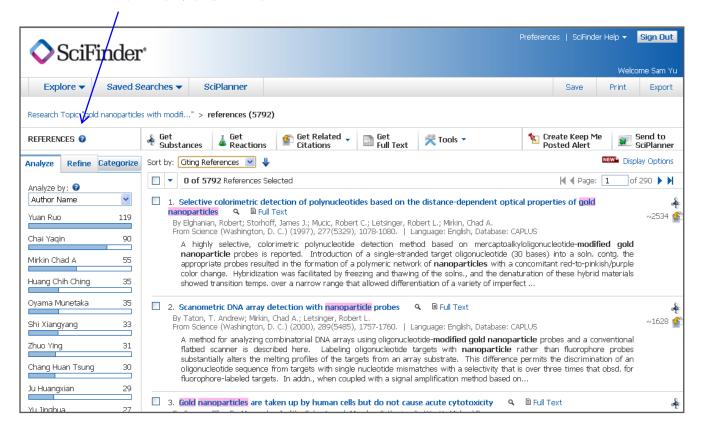
SciFinder提供的引文排序— Citing Reference







文献分析工具

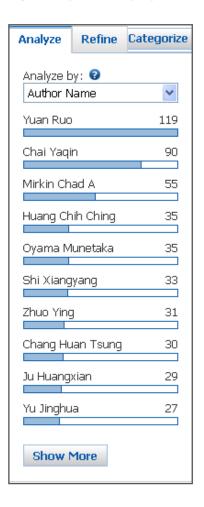


SciFinder提供强大的文献处理工具,帮助 处理文献

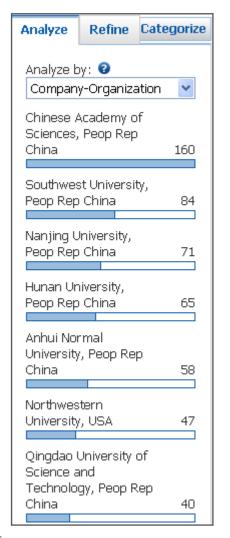




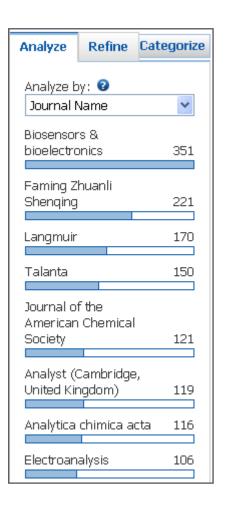
领域内主要研 究人员,专家



主要研究机构,合作伙伴,竞争对手

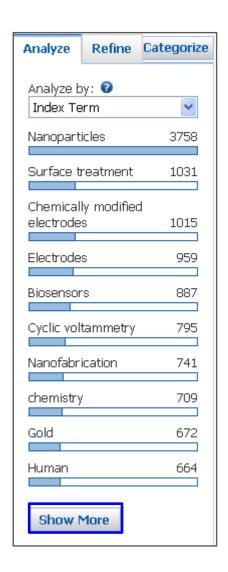


主要出版杂志,机构,潜在投稿期刊





SciFinder中的Analysis By Index Term



索引词(Index Term):可以帮助我们对文献的内容进行大致的了解

🛕 Only 1,000 Terms are displa	•
8425 Items 1 Selects	ed Expo
Sort by: Frequency 💌	✓ Page: 1 of 20
Select bars to view only those ref	erences within the current answer set.
■ Nanoparticles	3758 4
Surface treatment	1031
Chemically modified electrod	es 1015
☐ Electrodes	959
Biosensors	887
Cyclic voltammetry	795
Nanofabrication	741
☐ chemistry	709
Gold	672
References not containing inf	formation for this analysis 665
	Apply Cancel

选择感兴趣的内容,点击Apply

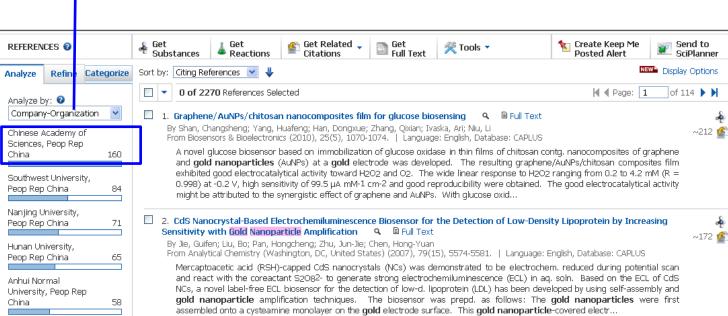






Refine: 帮助用户迅速获得需要的文献

中科院



结果集的保存





Export:

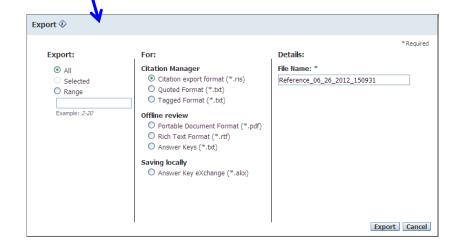
Citation manager: 保存成RIS格式, 用于导入EndNote等文献管理工具

Offline Review:保存过成PDF,RTF格式,用于脱机浏览



Save:

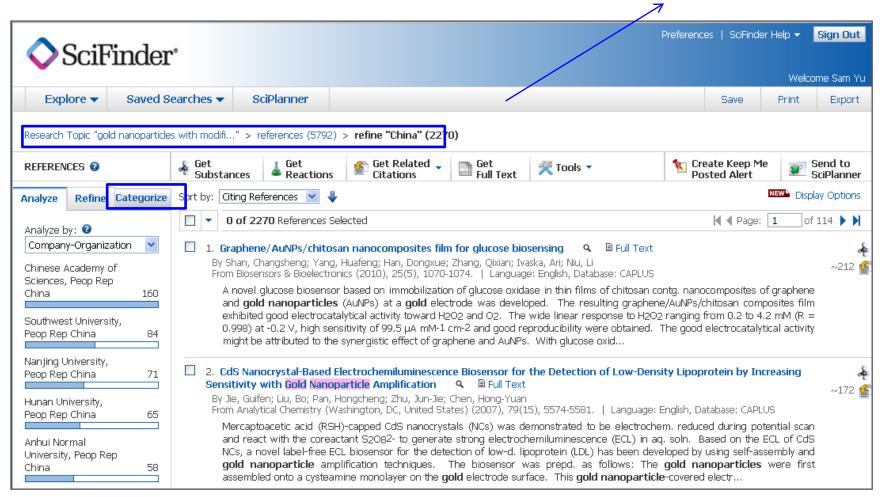
保存在服务器上,可登陆后查看







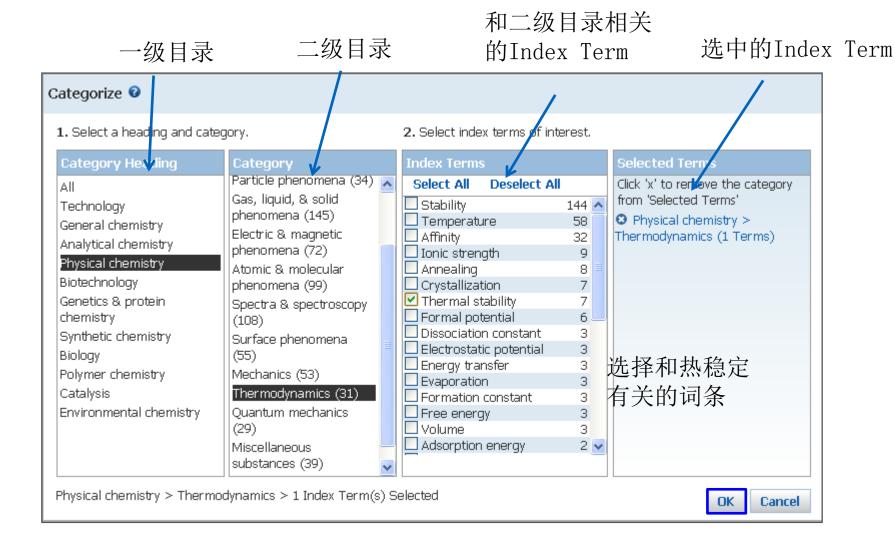
通过历史导航条回到任一检索界面



Categorize系统分类功能,基于Index Term,对文献依学科方向进行分类



SciFinder中的Categorize



练习



• 检索和转基因食品安全评估的文献,获得近5年的综述文献

- 检索策略:
 - Topic Search: Genetically Modified Food with safety
 - Refine publish year: 2008-
 - Refine document type: Review

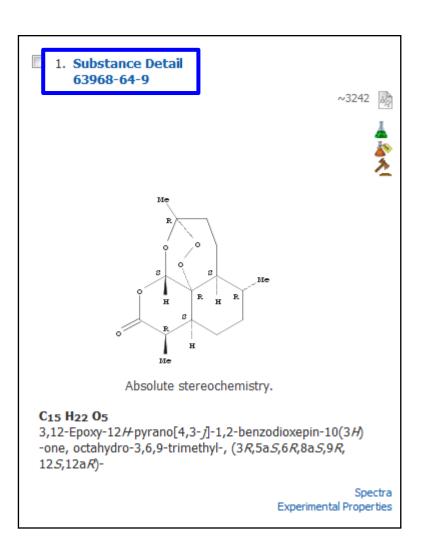
提纲



- 介绍
 - SciFinder Web中的内容
- SciFinder Web中的检索和后处理
 - SciFinder Web中的文献记录及主题检索
 - SciFinder Web中的物质结果及物质检索方法
 - SciFinder Web中的反应记录及反应检索
- SciFinder Web使用常见问题

SciFinder中的物质结果界面

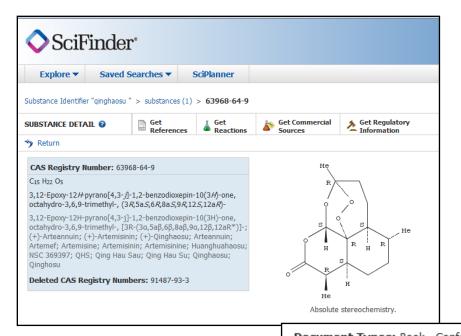




一个完整的物质结果界面包含:

- •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





物质的的CAS号、分子式、结构式、化学名、别名

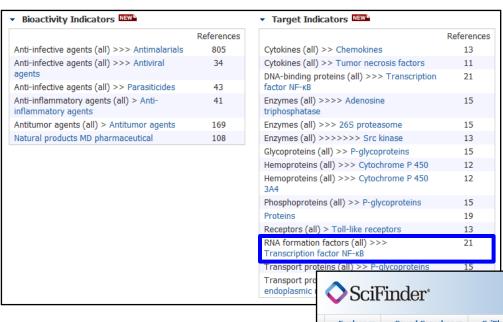
按照CAS Role分类的 专利、非专利文献列 表。对某类文献感兴 趣,仅需点击交叉处 的 即可方便快捷 地获取。

CAS Role	Patents	Nonpatents	Nonspecific Derivatives from Patents	Nonspecific Derivatives from Nonpatents
Analytical Study	✓	€	✓	✓
Biological Study	1	1	✓	✓
Formation, Nonpreparative		1	✓	✓
Miscellaneous	1	€		
Occurrence	1	1		✓
Preparation	1	€	✓	✓
Process	1	1	✓	✓
Properties	V	✓	✓	✓
Prophetic in Patents	1			
Reactant or Reagent	1	✓	✓	✓
Uses	1	1	✓	✓

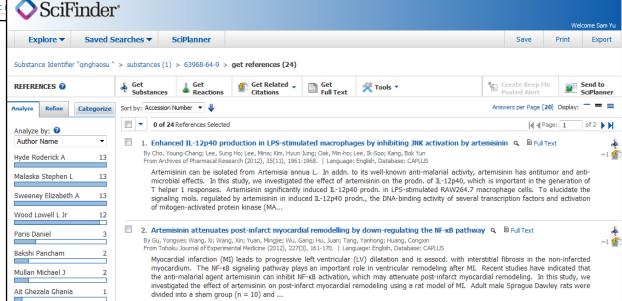


Preferences | SciFinder Help -

Substance Detail—查看物质详细信息



物质的生物活性和靶点信息,直接点击,获得相关文献





Biological Properties	Value	Condition	Note To
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	Тор
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	Тор
Carbon-13 NMR Spectrum	See spectrum		(27)	
Proton NMR Spectrum	See spectrum		(27)	



Biological Properties	Value	Condition	Note	Тор
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	Тор
logP	See full text	1 of 2	(12)CAS	
Optical and Scattering Properties	Value	Condition	Note	Тор
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	



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

