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SciFinder Web使用介绍

刘衍兰

SciFinder培训专员

2014.4

提纲

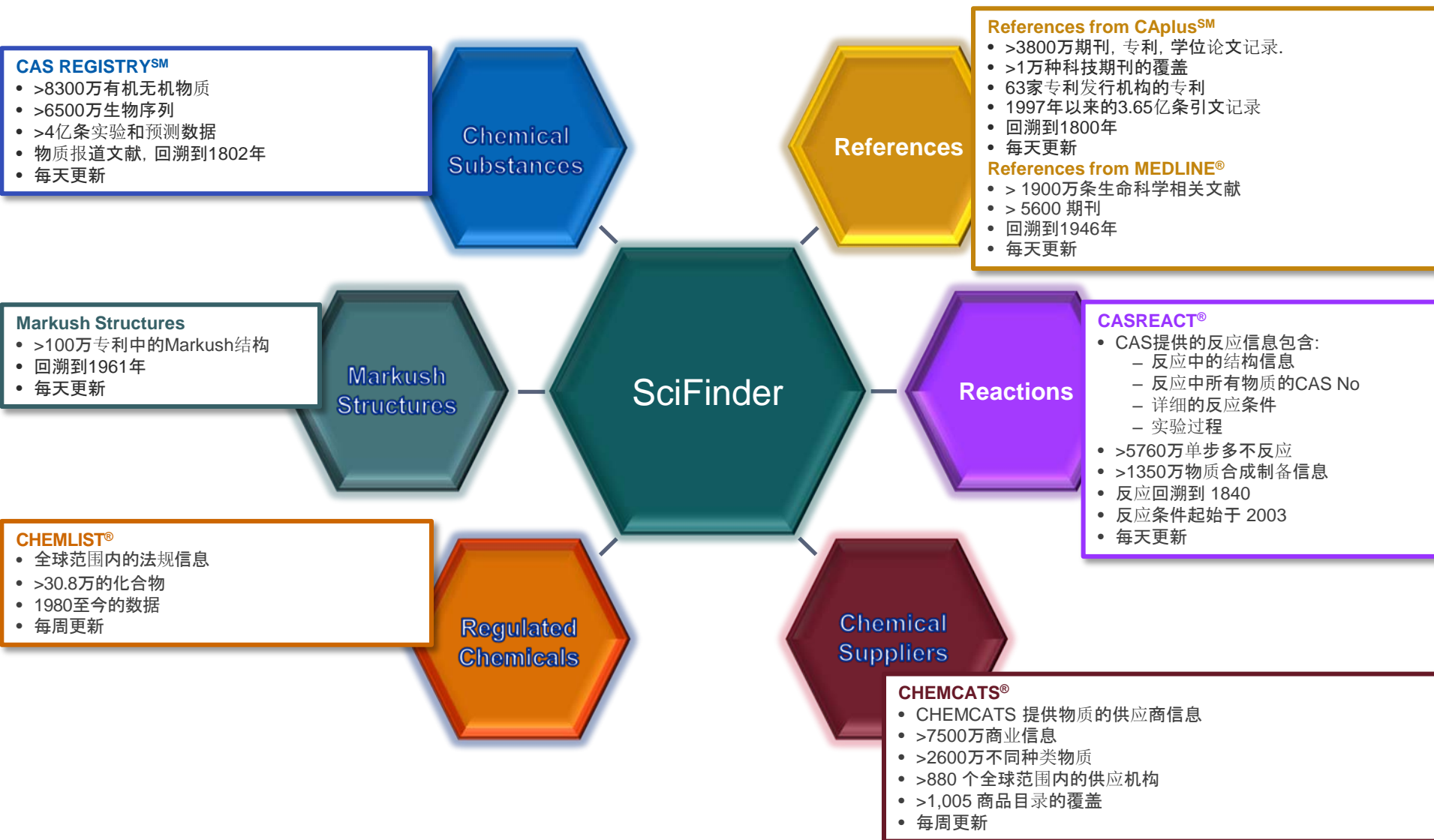
- 介绍
 - SciFinder Web中的内容
- **SciFinder Web中的检索和后处理**
 - SciFinder Web中的文献记录及主题检索
 - SciFinder Web中的物质结果及物质检索方法
 - SciFinder Web中的反应记录及反应检索
- **SciFinder Web的注册和常见问题**

美国化学文摘社—Chemical Abstract Service

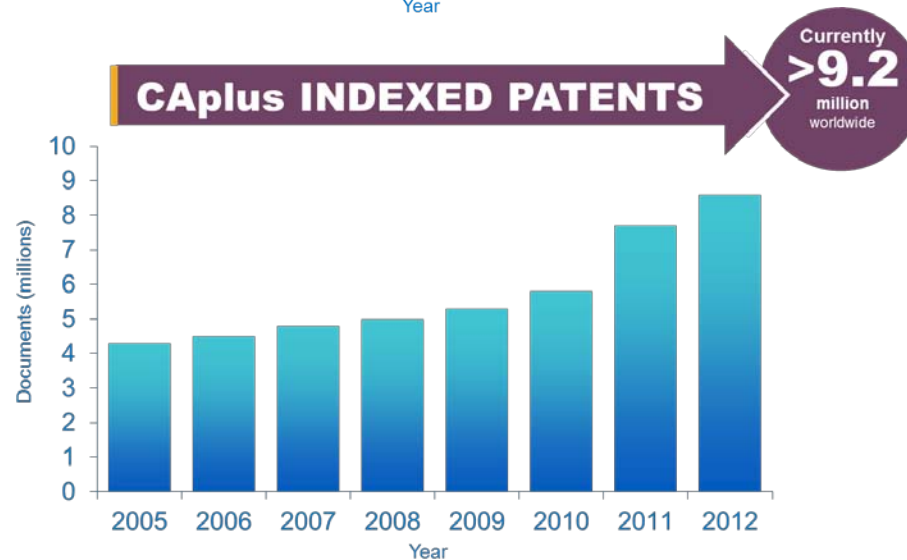
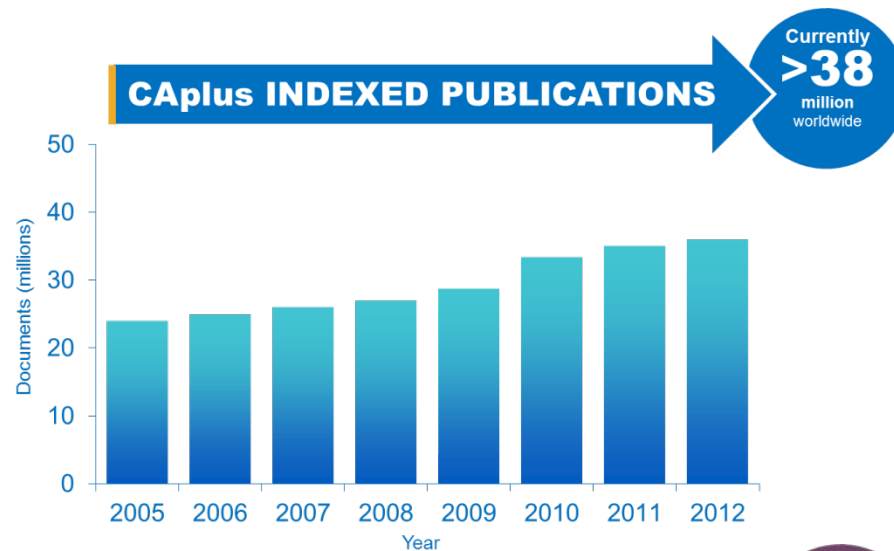
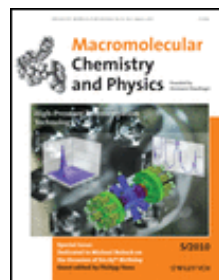
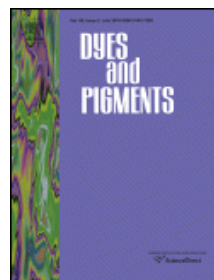
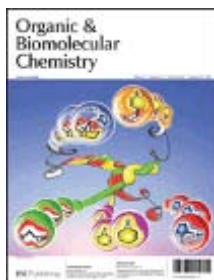
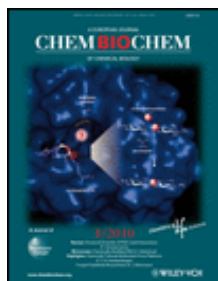
- 创建于1907年
- ACS的分支机构
- 密切关注，索引和提炼着全球化学相关的文献和专利
- 最早创立了《化学文摘》
- 总部坐落于俄亥俄州的哥伦布市



SciFinder的覆盖内容

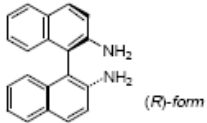


CAplusSM 涵盖上万种期刊及63个专利发行机构专利



CAS REGISTRYSM 是化学物质信息的“黄金标准”

Entry name → **2,2'-Diamino-1,1'-binaphthyl**

Structural formula and stereochemical description →  (R)-form

Alternative names → [1,1'-Binaphthalene]-2,2'-diamine, 9CI, 2,2'-Diamino-1,1'-dinaphthyl, 1,1'-Bi[2-naphthylamine]

CAS Registry Number → **FNCT6-Y [4488-22-6]**

Molecular Formula → **C₂₀H₁₆N₂** Molecular weight → **M 284.360** RTECS® Number → **DU3090000**

Use → Intermediate for chiral auxiliaries. **Exp. tumorigen by skin contact. Dec. with emission of toxic fumes. DU3090000**

Hazard alert symbol and description of hazards → **(R)-form: FNCT6-Z [18741-85-0] Mp 242.5-243°, [α]_D²⁵ + 155.5° (c, 1 in Py), [α]_D²⁵ + 46.8° (2M HCl). Supplier: Aldrich 38242-6; Fluka 32787. N,N'-Di-Me: MNX33-Z [93713-30-5] Cryst. (EtOH). Mp 143-144° [α]_D²⁵ + 182° (c, 1.09 in C₆H₆). N,N,N',N'-Tetra-Me: MNX33-A [135029-77-5] Cryst. (EtOH/C₆H₆). Mp 216-218°. (S)-form: FNCT6-A [18531-95-8] Cryst. Mp 243° (235-239°), [α]_D²⁵ - 149° (Py), [α]_D²⁵ - 46° (2M HCl). Supplier: Aldrich 38243-4; Fluka 32788. N,N'-Di-Ac: FNCT6-V C₂₂H₂₀N₂O₂ M 368.434. Prisms (C₆H₆). Mp 226-227°. [α]_D²⁵ + 10.8° (c, 1 in THF). (Z)-form: FNCT6-W [79082-81-8] Silvery plates (EtOH), Mp 193.2-194.5° (191°). Picrate: FNCT6-X Brownish-yellow plates (C₆H₆). Mp 185° (dec.). N,N'-Di-Ac: FNCT6-X Cubes (EtOH), Mp 235-236°. N,N'-Di-benzoyl: FNCT6-Y C₂₄H₂₀N₂O₂ M 492.576. Prisms (PhNO₂). Mp 235°.**

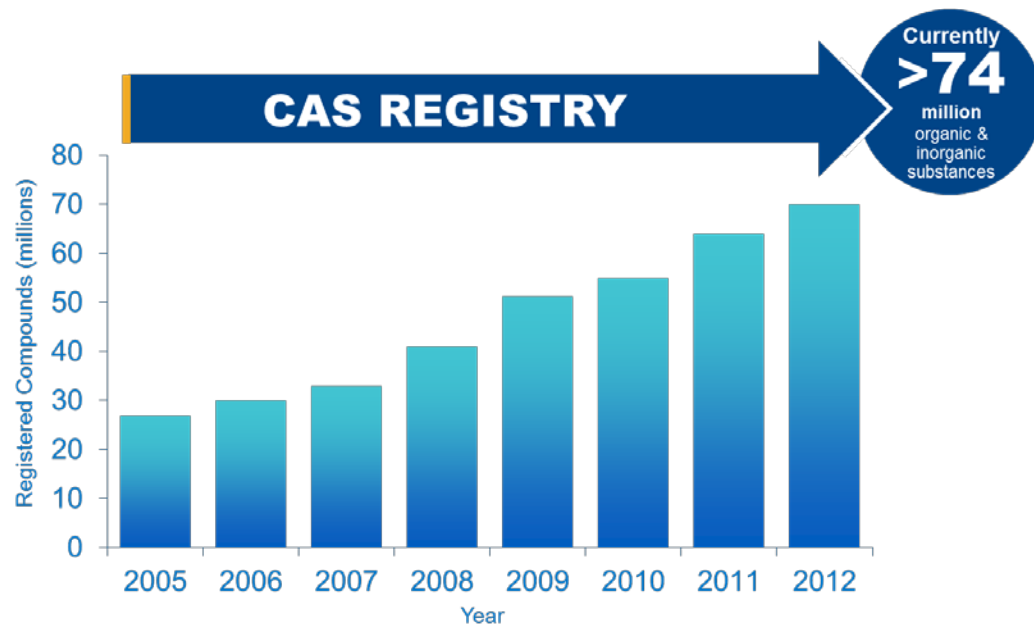
Supplier Information → **(R)-form: FNCT6-Z [18741-85-0] Mp 242.5-243°, [α]_D²⁵ + 155.5° (c, 1 in Py), [α]_D²⁵ + 46.8° (2M HCl). Supplier: Aldrich 38242-6; Fluka 32787. N,N'-Di-Me: MNX33-Z [93713-30-5] Cryst. (EtOH). Mp 143-144° [α]_D²⁵ + 182° (c, 1.09 in C₆H₆). N,N,N',N'-Tetra-Me: MNX33-A [135029-77-5] Cryst. (EtOH/C₆H₆). Mp 216-218°. (S)-form: FNCT6-A [18531-95-8] Cryst. Mp 243° (235-239°), [α]_D²⁵ - 149° (Py), [α]_D²⁵ - 46° (2M HCl). Supplier: Aldrich 38243-4; Fluka 32788. N,N'-Di-Ac: FNCT6-V C₂₂H₂₀N₂O₂ M 368.434. Prisms (C₆H₆). Mp 226-227°. [α]_D²⁵ + 10.8° (c, 1 in THF). (Z)-form: FNCT6-W [79082-81-8] Silvery plates (EtOH), Mp 193.2-194.5° (191°). Picrate: FNCT6-X Brownish-yellow plates (C₆H₆). Mp 185° (dec.). N,N'-Di-Ac: FNCT6-X Cubes (EtOH), Mp 235-236°. N,N'-Di-benzoyl: FNCT6-Y C₂₄H₂₀N₂O₂ M 492.576. Prisms (PhNO₂). Mp 235°.**

Stereoisomer heading → **(R)-form: FNCT6-Z [18741-85-0] Mp 242.5-243°, [α]_D²⁵ + 155.5° (c, 1 in Py), [α]_D²⁵ + 46.8° (2M HCl). Supplier: Aldrich 38242-6; Fluka 32787. N,N'-Di-Me: MNX33-Z [93713-30-5] Cryst. (EtOH). Mp 143-144° [α]_D²⁵ + 182° (c, 1.09 in C₆H₆). N,N,N',N'-Tetra-Me: MNX33-A [135029-77-5] Cryst. (EtOH/C₆H₆). Mp 216-218°. (S)-form: FNCT6-A [18531-95-8] Cryst. Mp 243° (235-239°), [α]_D²⁵ - 149° (Py), [α]_D²⁵ - 46° (2M HCl). Supplier: Aldrich 38243-4; Fluka 32788. N,N'-Di-Ac: FNCT6-V C₂₂H₂₀N₂O₂ M 368.434. Prisms (C₆H₆). Mp 226-227°. [α]_D²⁵ + 10.8° (c, 1 in THF). (Z)-form: FNCT6-W [79082-81-8] Silvery plates (EtOH), Mp 193.2-194.5° (191°). Picrate: FNCT6-X Brownish-yellow plates (C₆H₆). Mp 185° (dec.). N,N'-Di-Ac: FNCT6-X Cubes (EtOH), Mp 235-236°. N,N'-Di-benzoyl: FNCT6-Y C₂₄H₂₀N₂O₂ M 492.576. Prisms (PhNO₂). Mp 235°.**

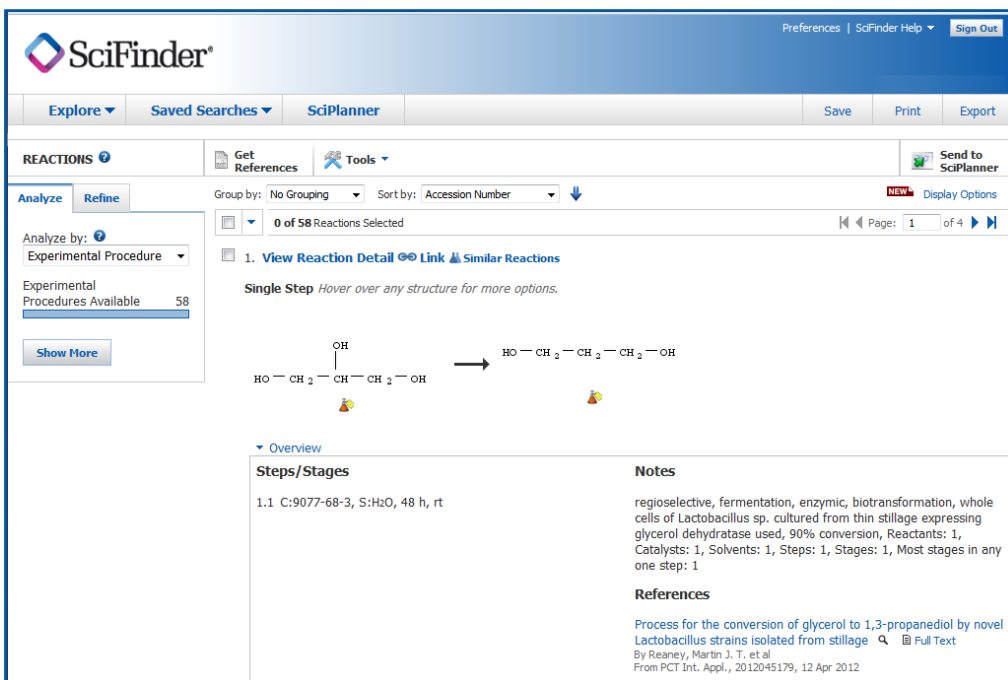
Derivative Subheading → **(R)-form: FNCT6-Z [18741-85-0] Mp 242.5-243°, [α]_D²⁵ + 155.5° (c, 1 in Py), [α]_D²⁵ + 46.8° (2M HCl). Supplier: Aldrich 38242-6; Fluka 32787. N,N'-Di-Me: MNX33-Z [93713-30-5] Cryst. (EtOH). Mp 143-144° [α]_D²⁵ + 182° (c, 1.09 in C₆H₆). N,N,N',N'-Tetra-Me: MNX33-A [135029-77-5] Cryst. (EtOH/C₆H₆). Mp 216-218°. (S)-form: FNCT6-A [18531-95-8] Cryst. Mp 243° (235-239°), [α]_D²⁵ - 149° (Py), [α]_D²⁵ - 46° (2M HCl). Supplier: Aldrich 38243-4; Fluka 32788. N,N'-Di-Ac: FNCT6-V C₂₂H₂₀N₂O₂ M 368.434. Prisms (C₆H₆). Mp 226-227°. [α]_D²⁵ + 10.8° (c, 1 in THF). (Z)-form: FNCT6-W [79082-81-8] Silvery plates (EtOH), Mp 193.2-194.5° (191°). Picrate: FNCT6-X Brownish-yellow plates (C₆H₆). Mp 185° (dec.). N,N'-Di-Ac: FNCT6-X Cubes (EtOH), Mp 235-236°. N,N'-Di-benzoyl: FNCT6-Y C₂₄H₂₀N₂O₂ M 492.576. Prisms (PhNO₂). Mp 235°.**

Additional CAS Registry Numbers → **[93621-61-1] [97644-73-0]**

Bibliographic references → **Kuhn, R et al., *Annalen*, 1929, 470, 183 (*synth, resoln*)
Cumming, WM et al., *J.C.S.*, 1932, 528 (*synth*)
Clemo, GR et al., *J.C.S.*, 1939, 1114 (*synth*)
Mislow, K et al., *J.A.C.S.*, 1962, 84, 1455 (*rev, ord*)
Akimoto, H et al., *Tetrahedron*, 1971, 27, 5999 (*resoln, abs config*)
Miyano, S et al., *Bull. Chem. Soc. Jpn.*, 1984, 57, 2171 (*pmr, ir, deriv*)
Brown, KJ et al., *J.O.C.*, 1985, 50, 4345 (*synth, resoln*)
Benson, SC et al., *J.O.C.*, 1988, 53, 5335 (*synth, N-tetramethyl*)
Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1989, 14, 32 (*use*)
Franzini, L et al., *Acta Cryst. C*, 1991, 47, 1259 (*cryst struct, N-tetra-Me*)
Smrcina, M et al., *J.O.C.*, 1992, 57, 1917 (*synth, resoln, bibl*)
Lewis, RJ et al., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1991, B6B750**



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REACTIONS Get References Tools Send to SciPlanner

Analyze Refine Group by: No Grouping Sort by: Accession Number Display Options

0 of 58 Reactions Selected Page: 1 of 4

1. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.

$$\text{HO}-\text{CH}_2-\overset{\text{OH}}{\text{CH}}-\text{CH}_2-\text{OH} \longrightarrow \text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$$

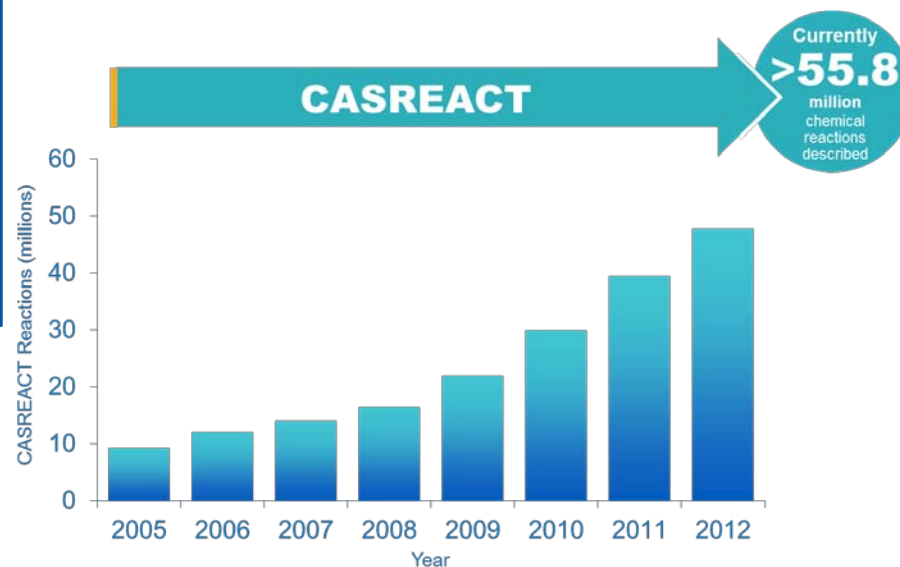
Overview

Steps/Stages	Notes
1.1 C:9077-68-3, S:H ₂ O, 48 h, rt	regioselective, fermentation, enzymic, biotransformation, whole cells of <i>Lactobacillus</i> sp. cultured from thin stillage expressing glycerol dehydratase used, 90% conversion, Reactants: 1, Catalysts: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Process for the conversion of glycerol to 1,3-propanediol by novel *Lactobacillus* strains isolated from stillage Full Text
 By Reaney, Martin J. T. et al
 From PCT Int. Appl., 2012045179, 12 Apr 2012

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提纲

- 介绍
 - SciFinder Web中的内容
- **SciFinder Web中的检索和后处理**
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 - 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
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SciFinder中的文献记录

REFERENCE DETAIL	Get Substances	Get Related Citations	Get Full Text	Send to SciPlanner
Return				◀ Previous Next ▶
<h2>1. Selective oxidation of light alkanes: interaction between the catalyst and the gas phase on different classes of catalytic materials</h2> <p>By: Cavani, F.; Trifiro, F.</p> <p>A review, with 202 refs., on the selective oxidn. of light (C₂₋₆) 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.</p>				QUICK LINKS 0 Tags, 0 Comments
Indexing Fossil Fuels, Derivatives, and Related Products (Section51-0) Section cross-reference(s): 35, 45				SOURCE <i>Catalysis Today</i> Volume51 Issue3-4 Pages561-580 Journal; General Review 1999 CODEN:CATTEA ISSN:0920-5861 DOI:10.1016/S0920-5861(99)00041-3
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				
				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
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 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

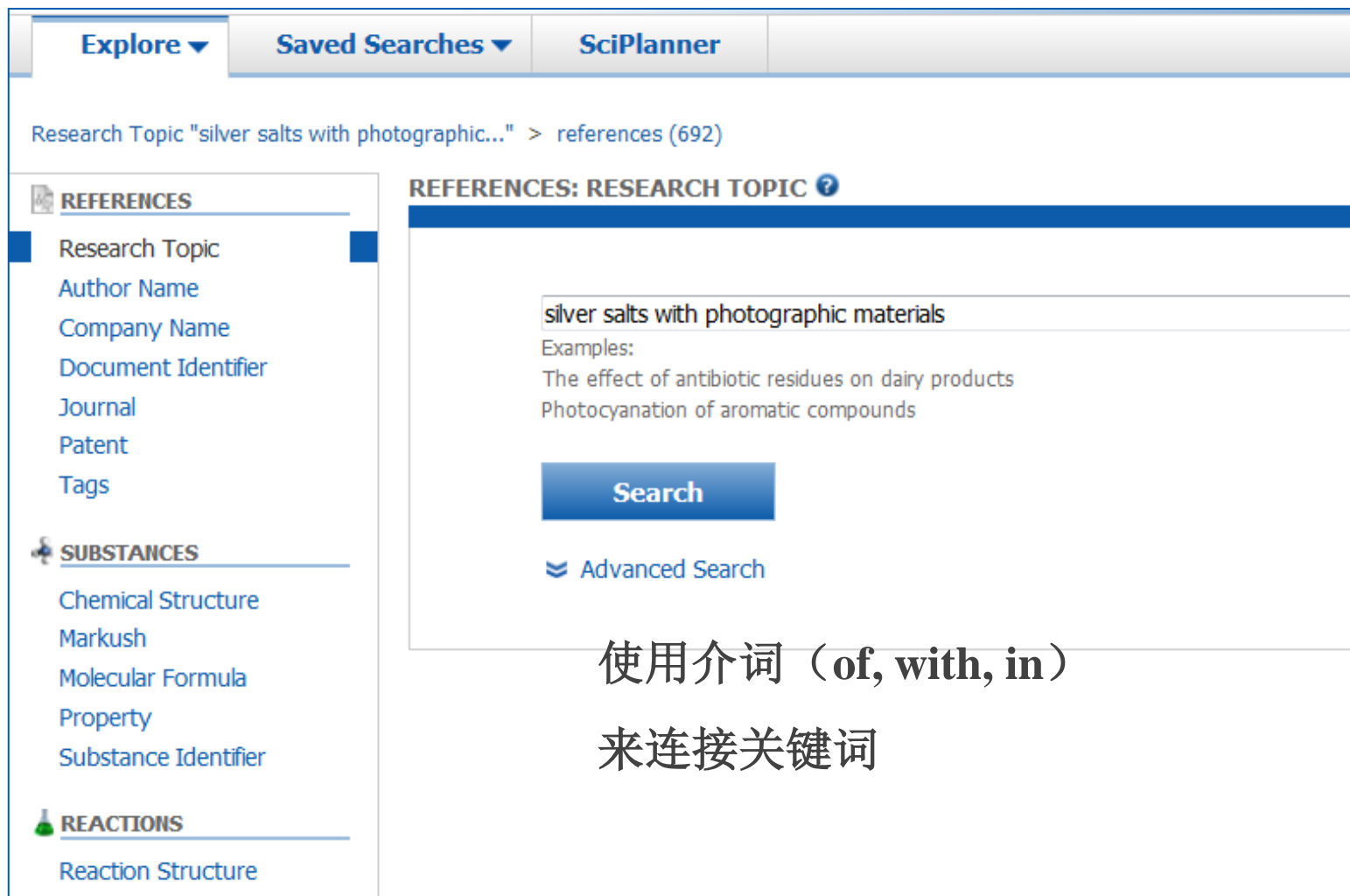
- 主题检索
- 作者名检索
- 机构名检索
- 文献标示符检索
- 从物质，反应获得文献

- 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 Web中的主题检索

主题： silver salts with photographic materials(银盐感光材料)



The screenshot shows the SciFinder web interface. At the top, there are navigation tabs: "Explore", "Saved Searches", and "SciPlanner". Below the tabs, the breadcrumb path reads "Research Topic 'silver salts with photographic...' > references (692)".

On the left side, there is a sidebar menu with three main sections: "REFERENCES", "SUBSTANCES", and "REACTIONS". Under "REFERENCES", the following options are listed: Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, and Tags. Under "SUBSTANCES", the options are: Chemical Structure, Markush, Molecular Formula, Property, and Substance Identifier. Under "REACTIONS", the option is: Reaction Structure.

The main content area is titled "REFERENCES: RESEARCH TOPIC" and contains a search input field with the text "silver salts with photographic materials". Below the input field, there are two example search results: "The effect of antibiotic residues on dairy products" and "Photocyanation of aromatic compounds". A blue "Search" button is positioned below the examples, and an "Advanced Search" link is located at the bottom of the search area.

Overlaid on the bottom right of the screenshot is the text: "使用介词 (of, with, in) 来连接关键词".

主题检索的候选项

Research Topic "silver salts with photographic..."

REFERENCES ?

Select All Deselect All

1 of 4 Research Topic Candidates Selected

	References
<input checked="" type="checkbox"/> 692 references were found containing the two concepts <u>"silver salts"</u> and <u>"photographic materials"</u> <u>closely associated with one another</u> .	692
<input type="checkbox"/> 1348 references were found where the two concepts <u>"silver salts"</u> and <u>"photographic materials"</u> were present anywhere in the reference.	1348
<input type="checkbox"/> 24409 references were found containing the concept <u>"silver salts"</u> .	24409
<input type="checkbox"/> 39948 references were found containing the concept <u>"photographic materials"</u> .	39948

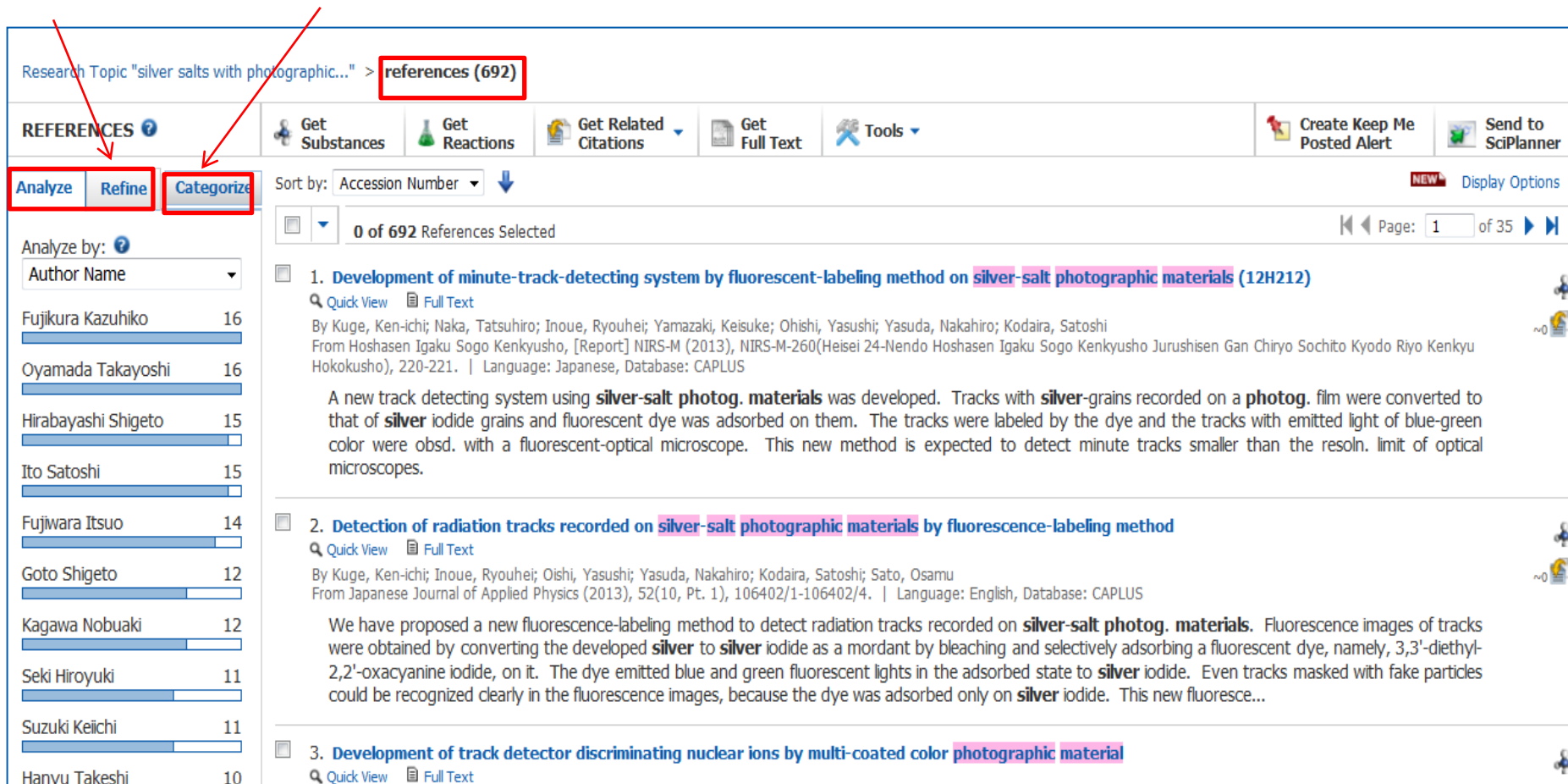
Get References

- ◆ “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 中的文献检索结果及后处理

文献分析、
限定工具

系统分类工具



Research Topic "silver salts with photographic..." > **references (692)**

REFERENCES ?

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Analyze | Refine | Categorize

Sort by: Accession Number

0 of 692 References Selected

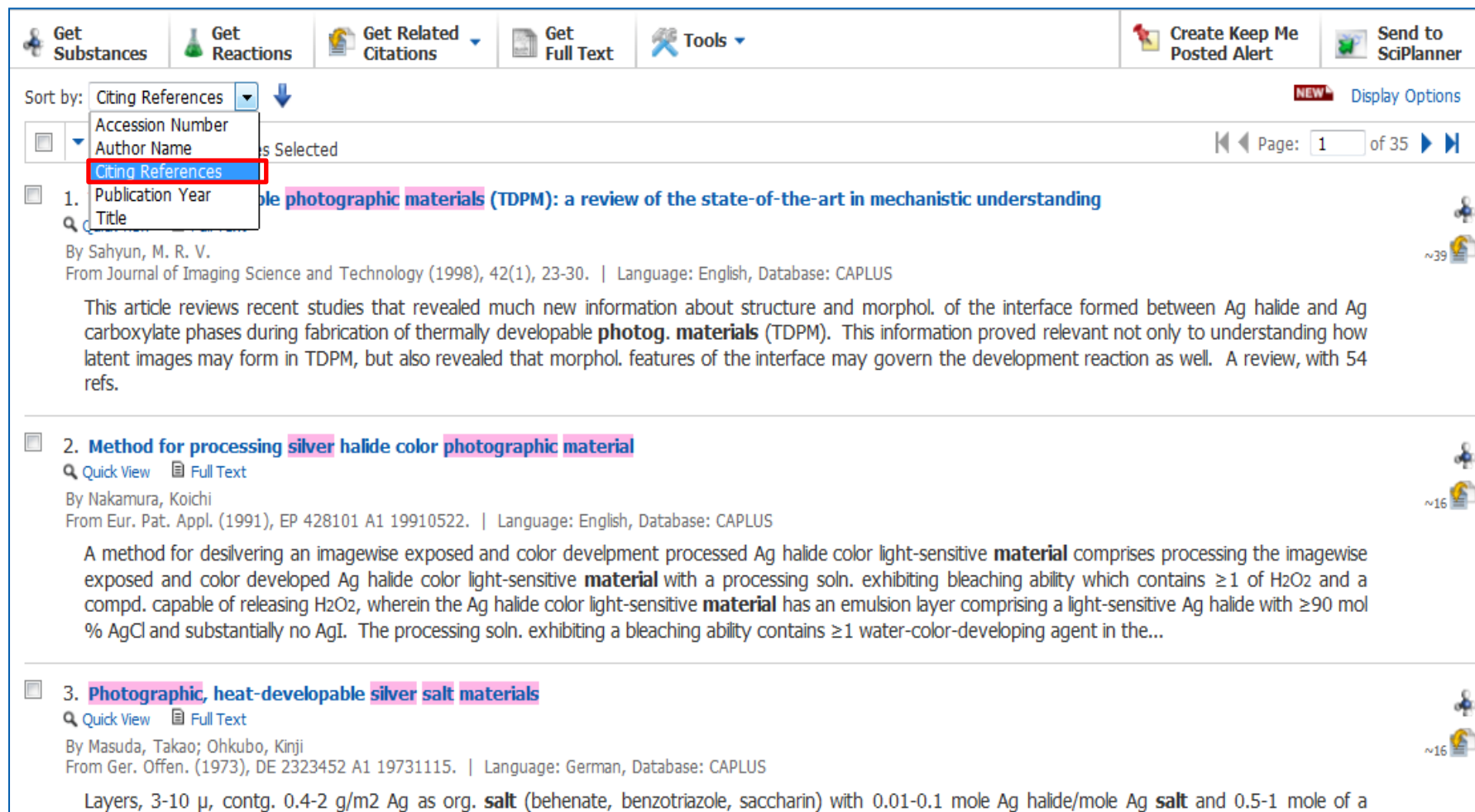
Page: 1 of 35

- Development of minute-track-detecting system by fluorescent-labeling method on silver-salt photographic materials (12H212)**
 Quick View | Full Text
 By Kuge, Ken-ichi; Naka, Tatsuhiro; Inoue, Ryouhei; Yamazaki, Keisuke; Ohishi, Yasushi; Yasuda, Nakahiro; Kodaira, Satoshi
 From Hoshasen Igaku Sogo Kenkyusho, [Report] NIRS-M (2013), NIRS-M-260(Heisei 24-Nendo Hoshasen Igaku Sogo Kenkyusho Jurushisen Gan Chiryu Sochito Kyodo Riyo Kenkyu Hokokusho), 220-221. | Language: Japanese, Database: CAPLUS
 A new track detecting system using **silver-salt photog. materials** was developed. Tracks with **silver**-grains recorded on a **photog.** film were converted to that of **silver** iodide grains and fluorescent dye was adsorbed on them. The tracks were labeled by the dye and the tracks with emitted light of blue-green color were obsd. with a fluorescent-optical microscope. This new method is expected to detect minute tracks smaller than the resolu. limit of optical microscopes.
- Detection of radiation tracks recorded on silver-salt photographic materials by fluorescence-labeling method**
 Quick View | Full Text
 By Kuge, Ken-ichi; Inoue, Ryouhei; Oishi, Yasushi; Yasuda, Nakahiro; Kodaira, Satoshi; Sato, Osamu
 From Japanese Journal of Applied Physics (2013), 52(10, Pt. 1), 106402/1-106402/4. | Language: English, Database: CAPLUS
 We have proposed a new fluorescence-labeling method to detect radiation tracks recorded on **silver-salt photog. materials**. Fluorescence images of tracks were obtained by converting the developed **silver** to **silver** iodide as a mordant by bleaching and selectively adsorbing a fluorescent dye, namely, 3,3'-diethyl-2,2'-oxacyanine iodide, on it. The dye emitted blue and green fluorescent lights in the adsorbed state to **silver** iodide. Even tracks masked with fake particles could be recognized clearly in the fluorescence images, because the dye was adsorbed only on **silver** iodide. This new fluoresce...
- Development of track detector discriminating nuclear ions by multi-coated color photographic material**
 Quick View | Full Text

Author Name	Count
Fujikura Kazuhiko	16
Oyamada Takayoshi	16
Hirabayashi Shigeto	15
Ito Satoshi	15
Fujiwara Itsuo	14
Goto Shigeto	12
Kagawa Nobuaki	12
Seki Hiroyuki	11
Suzuki Keichi	11
Hanyu Takeshi	10

SciFinder提供强大的文献处理工具，帮助处理文献

SciFinder提供的引文排序— Citing Reference



The screenshot shows the SciFinder search results page. At the top, there are navigation buttons: Get Substances, Get Reactions, Get Related Citations, Get Full Text, and Tools. On the right, there are buttons for 'Create Keep Me Posted Alert' and 'Send to SciPlanner'. Below the navigation bar, the 'Sort by:' dropdown menu is set to 'Citing References', and a 'Display Options' button is visible. A 'Page: 1 of 35' indicator is also present. The search results are listed in a table-like format with three entries:

- 1. Multiple photographic materials (TDPM): a review of the state-of-the-art in mechanistic understanding**

By Sahyun, M. R. V.
 From Journal of Imaging Science and Technology (1998), 42(1), 23-30. | Language: English, Database: CAPLUS

This article reviews recent studies that revealed much new information about structure and morphol. of the interface formed between Ag halide and Ag carboxylate phases during fabrication of thermally developable **photog. materials** (TDPM). This information proved relevant not only to understanding how latent images may form in TDPM, but also revealed that morphol. features of the interface may govern the development reaction as well. A review, with 54 refs.
- 2. Method for processing silver halide color photographic material**

By Nakamura, Koichi
 From Eur. Pat. Appl. (1991), EP 428101 A1 19910522. | Language: English, Database: CAPLUS

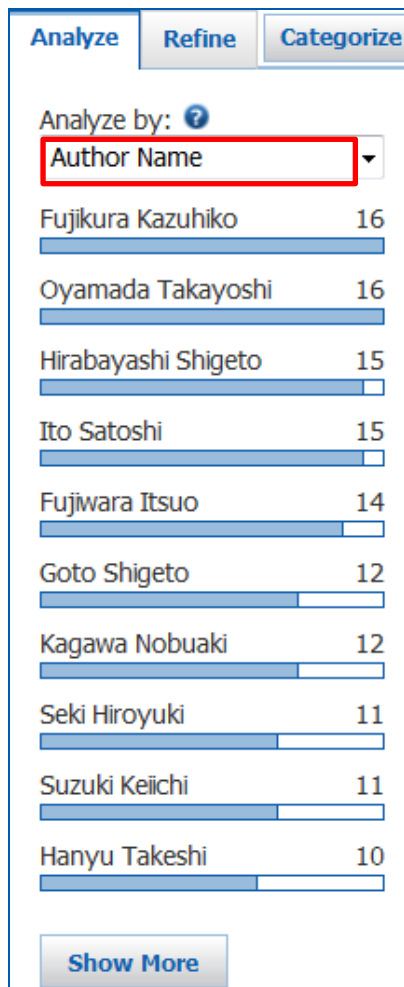
A method for desilvering an imagewise exposed and color development processed Ag halide color light-sensitive **material** comprises processing the imagewise exposed and color developed Ag halide color light-sensitive **material** with a processing soln. exhibiting bleaching ability which contains ≥ 1 of H₂O₂ and a compd. capable of releasing H₂O₂, wherein the Ag halide color light-sensitive **material** has an emulsion layer comprising a light-sensitive Ag halide with ≥ 90 mol % AgCl and substantially no AgI. The processing soln. exhibiting a bleaching ability contains ≥ 1 water-color-developing agent in the...
- 3. Photographic, heat-developable silver salt materials**

By Masuda, Takao; Ohkubo, Kinji
 From Ger. Offen. (1973), DE 2323452 A1 19731115. | Language: German, Database: CAPLUS

Layers, 3-10 μ , contg. 0.4-2 g/m² Ag as org. **salt** (behenate, benzotriazole, saccharin) with 0.01-0.1 mole Ag halide/mole Ag **salt** and 0.5-1 mole of a

SciFinder中的Analyze

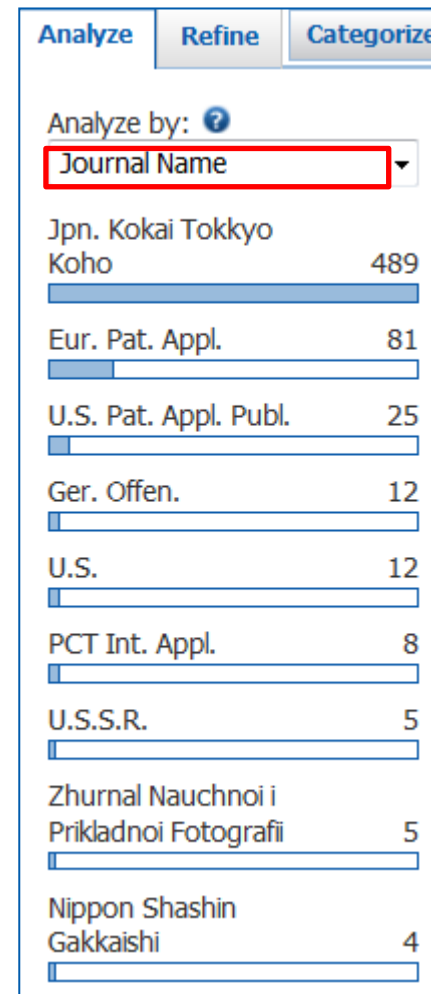
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Analyze Refine Categorize

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Index Term

Photographic films	311
Photographic emulsions	205
Photothermographic copying	98
Photographic processing	63
Photographic sensitizers	52
Photographic development	41
Lithographic plates	37
Photographic developers	37
Polyvinyl butyrals	30
Photography	29

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

<input checked="" type="checkbox"/>	Photographic films	感光胶片	311
<input type="checkbox"/>	Photographic emulsions		205
<input type="checkbox"/>	Photothermographic copying		98
<input type="checkbox"/>	Photographic processing		63
<input checked="" type="checkbox"/>	Photographic sensitizers	显影剂	52
<input type="checkbox"/>	Photographic development		41
<input type="checkbox"/>	Lithographic plates		37
<input type="checkbox"/>	Photographic developers		37
<input type="checkbox"/>	Polyvinyl butyrals		30
<input type="checkbox"/>	Photography		29

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- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
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- Preprint
- Report
- Review

Refine

0 of 654 References Selected
Page: 1 of 33

1. **Photosensitive, structural high-resolution composite material based on polymer films or sheets and a method for its production**
Quick View Full Text
 By Otto, Volker; Schulze-Joergensen, Axel; Redmann, Rainer
 From Ger. Offen. (2012), DE 102011006889 A1 20120614. | Language: German, Database: CAPLUS

The invention relates to a photosensitive, structural high-resoln. based on polymer films or sheets and a method for its prodn. The composite **material** is provided here for use as an optical position sensor (encoder disk) in optically scanning counting and measuring elements for quantifying and digitizing mech.-geometric and kinematic-states. The composite **material** is characterized in that it consists of an optically transparent, polymeric, **photog.** inactive substrate which causes no birefringence and has at least a temp. stability of over 100° and at one or two of its main faces (surfaces) ge...
2. **Image recording material substrates with no blistering and uneven recording and fixing**
Quick View Full Text
 By Fujimoto, Shinji; Miyake, Kazuhito; Murai, Ashita; Katsumoto, Ryuichi; Tamagawa, Shigehisa
 From Jpn. Tokkyo Koho (2011), JP 4758092 B2 20110824. | Language: Japanese, Database: CAPLUS

Title substrates comprise a base paper and ≥1 each polyolefin resin layer formed on the opposite sides of the base paper, wherein ≥2 front-surface polyolefin resin layers are disposed on the side of the polyolefin resin layer where an image recording layer is provided, and an av. d. of the outer-most front-surface polyolefin resin layer remotest from the base paper is smaller than an av. d. of at least any one of front-surface polyolefin resin layers except for the outer-most front-surface polyolefin resin layer. Thus, carboxy-modified polyvinyl alc. was applied on a paper prepd. from cationi...
3. **Silver salt photographic materials and method for formation of electric conductor films**
Quick View Full Text
 By Sudo, Atsushi; Ichiki, Akira
 From Jpn. Kokai Tokkyo Koho (2011), JP 2011131500 A 20110707. | Language: Japanese, Database: CAPLUS

The title **material** comprises a support equipped with an Ag **salt**-contg. emulsion layer and ≥1 layer(s) formed on the support contains alum, e.g. chrome alum. Method for **photog.** formation of elec. conducting Ag layers includes a step for immersion of the **photog.** layer in an alum soln. before its development. Ag layers having low surface resistivity can be mass manufd.

SciFinder 中的Categorize

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0 of 692 References Selected
Page: 1 of 35

1. **Development of minute-track-detecting system by fluorescent-labeling method on silver-salt photographic materials (12H212)**

[Quick View](#) [Full Text](#)

By Kuge, Ken-ichi; Naka, Tatsuhiro; Inoue, Ryouhei; Yamazaki, Keisuke; Ohishi, Yasushi; Yasuda, Nakahiro; Kodaira, Satoshi
 From Hoshasen Igaku Sogo Kenkyusho, [Report] NIRS-M (2013), NIRS-M-260(Heisei 24-Nendo Hoshasen Igaku Sogo Kenkyusho Jurushisen Gan Chiryo Sochito Kyodo Riyo Kenkyu Hokokusho), 220-221.
 | Language: Japanese, Database: CAPLUS

A new track detecting system using **silver-salt photog. materials** was developed. Tracks with **silver**-grains recorded on a **photog.** film were converted to that of **silver** iodide grains and fluorescent dye was adsorbed on them. The tracks were labeled by the dye and the tracks with emitted light of blue-green color were obsd. with a fluorescent-optical microscope. This new method is expected to detect minute tracks smaller than the resoln. limit of optical microscopes.

2. **Detection of radiation tracks recorded on silver-salt photographic materials by fluorescence-labeling method**

[Quick View](#) [Full Text](#)

By Kuge, Ken-ichi; Inoue, Ryouhei; Oishi, Yasushi; Yasuda, Nakahiro; Kodaira, Satoshi; Sato, Osamu
 From Japanese Journal of Applied Physics (2013), 52(10, Pt. 1), 106402/1-106402/4. | Language: English, Database: CAPLUS

We have proposed a new fluorescence-labeling method to detect radiation tracks recorded on **silver-salt photog. materials**. Fluorescence images of tracks were obtained by converting the developed **silver** to **silver** iodide as a mordant by bleaching and selectively adsorbing a fluorescent dye, namely, 3,3'-diethyl-2,2'-oxocyanine iodide, on it. The dye emitted blue and green fluorescent lights in the adsorbed state to **silver** iodide. Even tracks masked with fake particles could be recognized clearly in the fluorescence images, because the dye was adsorbed only on **silver** iodide. This new fluoresce...

3. **Development of track detector discriminating nuclear ions by multi-coated color photographic material**

[Quick View](#) [Full Text](#)

By Kuge, Ken'ichi; Miyasato, Naohiro; Naka, Tatsuhiro; Fujita, Shingo; Yasuda, Nakahiro; Kodaira, Satoshi
 From Hoshasen Igaku Sogo Kenkyusho, [Report] NIRS-M (2012), NIRS-M-251, 215-216. | Language: Japanese, Database: CAPLUS

Track detecting systems using **silver-salt photog. materials** were improved. Sensitivity increase to radiation exposure was increased by post-exposure latensification with red light at low temp. and the details were investigated. This treatment is effective to the condition of low deposited energy and low developability, where only undevelopable

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

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和二级目录相关的
Index Term

选中的Index Term

Categorize ?

1. Select a heading and category. 2. Select index terms of interest.

Category Heading	Category	Index Terms	Selected Terms
All	Polymers (627)	Page: 1 of 7 Select All Deselect All <input checked="" type="checkbox"/> Polyvinyl butyrals 33 <input type="checkbox"/> Polyesters 23 <input checked="" type="checkbox"/> Polyvinyl alcohol 21 <input type="checkbox"/> Poly(ethylene terephthalate) 19 <input type="checkbox"/> Acrylic acid-1,3-butadiene-styrene copolymer 15 <input type="checkbox"/> Stearic acid 14 <input type="checkbox"/> Polyethylene 12 <input type="checkbox"/> Polyoxyalkylenes 12 <input type="checkbox"/> Polymethyl methacrylate 11 <input type="checkbox"/> Polyvinyl acetals 11 <input type="checkbox"/> Butadiene-styrene copolymer 10 <input type="checkbox"/> Butyl acrylate-glycidyl 9	Click 'x' to remove the category from 'Selected Terms' + Polymer chemistry > Polymers (2 Terms)

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Page: 1 of 35

1. **Development of minute-track-detecting system by fluorescent-labeling method on silver-salt photographic materials (12H212)**
 Quick View | Full Text
 By Kuge, Ken-ichi; Naka, Tatsuhiro; Inoue, Ryouhei; Yamazaki, Keisuke; Ohishi, Yasushi; Yasuda, Nakahiro; Kodaira, Satoshi
 From Hoshasen Igaku Sogo Kenkyusho, [Report] NIRS-M (2013), NIRS-M-260(Heisei 24-Nendo Hoshasen Igaku Sogo Kenkyusho Jurushisen Gan Chiryu Sochito Kyodo Riyo Kenkyu Hokokusho), 220-221.
 | Language: Japanese, Database: CAPLUS
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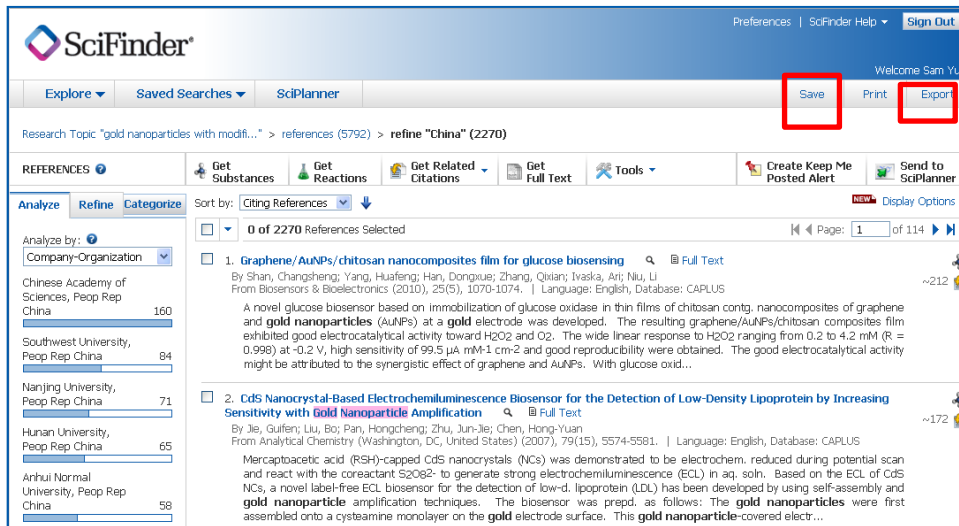
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0 of 2270 References Selected | Page: 1 of 114

1. **Graphene/AuNPs/chitosan nanocomposites film for glucose biosensing** | Full Text | ~212
 By Shan, Changsheng; Yang, Huaifeng; Han, Dongxue; Zhang, Qitian; Ivaska, Art; Niu, Li
 From Biosensors & Bioelectronics (2010), 25(5), 1070-1074. | Language: English, Database: CAPLUS
 A novel glucose biosensor based on immobilization of glucose oxidase in thin films of chitosan contg. nanocomposites of graphene and gold nanoparticles (AuNPs) at a gold electrode was developed. The resulting graphene/AuNPs/chitosan composites film exhibited good electrocatalytic activity toward H₂O₂ and O₂. The wide linear response to H₂O₂ ranging from 0.2 to 4.2 mM (R = 0.998) at -0.2 V, high sensitivity of 99.5 μA mM⁻¹ cm⁻² and good reproducibility were obtained. The good electrocatalytic activity might be attributed to the synergistic effect of graphene and AuNPs. With glucose oxid...

2. **CdS Nanocrystal-Based Electrochemiluminescence Biosensor for the Detection of Low-Density Lipoprotein by Increasing Sensitivity with Gold Nanoparticle Amplification** | Full Text | ~172
 By Jie, Gufen; Liu, Bo; Pan, Hongcheng; Zhu, Jun-Jie; Chen, Hong-Yuan
 From Analytical Chemistry (Washington, DC, United States) (2007), 79(15), 5574-5581. | Language: English, Database: CAPLUS
 Mercaptoacetic acid (RSH)-capped CdS nanocrystals (NCs) was demonstrated to be electrochem. reduced during potential scan and react with the coreactant S₂O₈²⁻ to generate strong electrochemiluminescence (ECL) in aq. soln. Based on the ECL of CdS NCs, a novel label-free ECL biosensor for the detection of low-d. lipoprotein (LDL) has been developed by using self-assembly and gold nanoparticle amplification techniques. The biosensor was prepd. as follows: The gold nanoparticles were first assembled onto a cysteamine monolayer on the gold electrode surface. This gold nanoparticle-covered electr...

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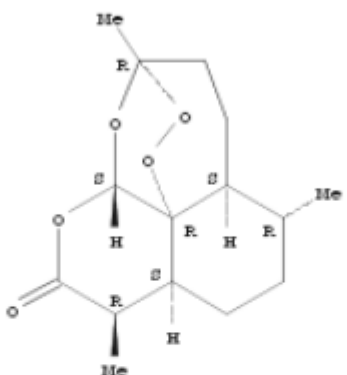
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 - SciFinder Web中的反应记录及反应检索
- **SciFinder Web的注册和常见问题**

SciFinder中的物质结果界面

1. 63968-64-9

~3511 
~105 



Absolute stereochemistry.

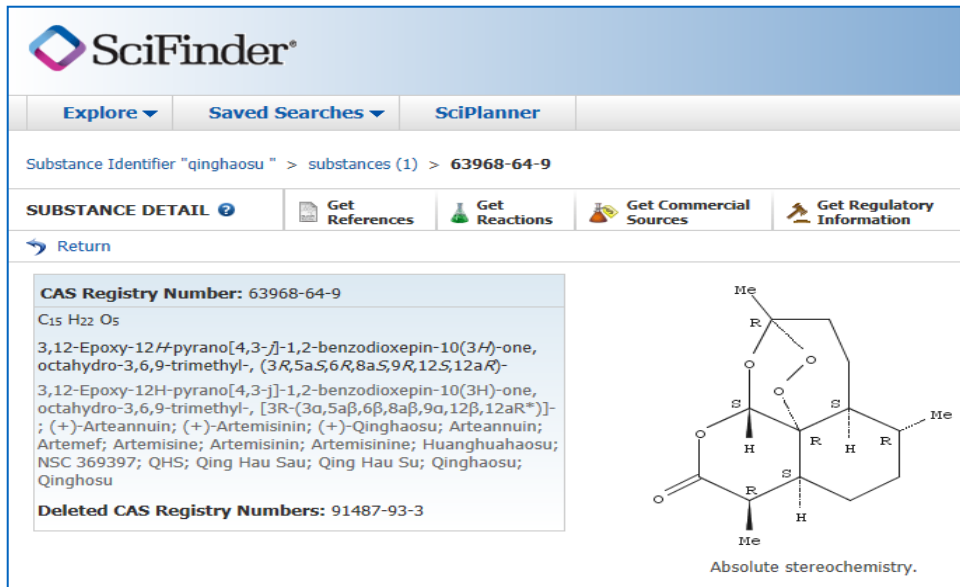
C₁₅ H₂₂ O₅
 3,12-Epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one, octahydro-3,6,9-trimethyl-, (3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-

[Regulatory Information](#)
[Spectra](#)
[Experimental Properties](#)

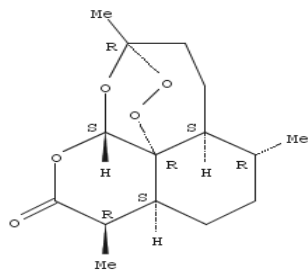
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 Return
CAS Registry Number: 63968-64-9
 C₁₅ H₂₂ O₅
 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one, octahydro-3,6,9-trimethyl-, (3*R*,5*a*,*S*,6*R*,8*a*,*S*,9*R*,12*S*,12*a**R*)-
 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one, octahydro-3,6,9-trimethyl-, [3*R*-(3*α*,5*α*β,6β,8*α*β,9*α*,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



Absolute stereochemistry.

物质的CAS号、分子式、结构式、化学名、别名

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CAS Role	Nonspecific Derivatives from Patents		Nonspecific Derivatives from Nonpatents	
	Patents	Nonpatents	Patents	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		Target Indicators	
	References		References
Anti-infective agents (all) >>> Antimalarials	939	Cytokines (all) >> Interleukin 6	10
Anti-infective agents (all) >> Parasiticides	56	Cytokines (all) >> Interleukin 6	10
Antitumor agents (all) > Antitumor agents	200	Cytokines (all) >> Interleukin 6	10
Natural products MD pharmaceutical	132	Cytokines (all) >> Tumor necrosis factor α	16
		Cytokines (all) >> Tumor necrosis factor α	16
		Enzymes (all) >>> Adenosine triphosphatase	18
		Enzymes (all) >>>>> Caspase-3	12
		Enzymes (all) >>> Dihydrofolate reductase	10
		Enzymes (all) >>> Proteasome	17
		Enzymes (all) >>>>>> Src kinase	13
		Glycoproteins (all) >> P-glycoproteins	20
		Hemoproteins (all) >>>> Cytochrome P450 CYP3A4	13
		Interferons (all) > Interleukin 6	10
		Interleukins (all) > Interleukin 6	10
		Phosphoproteins (all) >> P-glycoproteins	20
		Proteins	21
		Receptors (all) > Toll-like receptors	13
		RNA formation factors (all) >>> Transcription factor NF- κ B	24
		Transport proteins (all) >>>>> Cytochrome P450 CYP3A4	13
		Transport proteins (all) >> P-glycoproteins	20
		Transport proteins (all) >>> Sarcoplasmic-endoplasmic reticulum calcium pumps	12

物质的生物活性和靶点信息，直接点击，获得相关文献

0 of 20 References Selected

- MDR1-associated resistance to artesunate + mefloquine does not impair blood-stage parasite fitness in a rodent malaria model**

By Rodrigues, Louise; Henriques, Gisela; Cravo, Pedro
 From Infection, Genetics and Evolution (2013), 14, 340-346. | Language: English, Database: CAPLUS

If drug-resistant malaria mutants are less fit than sensitive forms, they will wane over time when active drug pressure is removed and the overall sensitivity to the drug may be restored. However, most studies addressing this issue have been largely retrospective. Here, we undertook a predictive study, using mutant rodent malaria parasites resistant to the Artemisinin combination treatment (ACT) version of artesunate + mefloquine (ATN + MF) to gain insights about their ability to compete with ATN + MF-sensitive forms in untreated hosts. Previously, Plasmodium chabaudi parasites resistant to...
- Artemether resistance in vitro is linked to mutations in PfATP6 that also interact with mutations in PfMDR1 in travellers returning with Plasmodium falciparum infections**

By Pillai, Dylan R.; Lau, Rachel; Khairnar, Krishna; Lepore, Rosalba; Via, Allegra; Staines, Henry M.; Krishna, Sanjeev
 From Malaria Journal (2012), 11, 131. | Language: English, Database: CAPLUS

Background: Monitoring resistance phenotypes for Plasmodium falciparum, using in vitro growth assays, and relating findings to parasite genotype has proved particularly challenging for the study of resistance to artemisinins. Methods: Plasmodium falciparum isolates cultured from 28 returning travellers diagnosed with malaria were assessed for sensitivity to artemisinin, artemether, dihydroartemisinin and artesunate and findings related to mutations in pfatp6 and pfmdr1. Results: Resistance to artemether in vitro was significantly assocd. with a pfatp6 haplotype encoding two amino acid substi...

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	

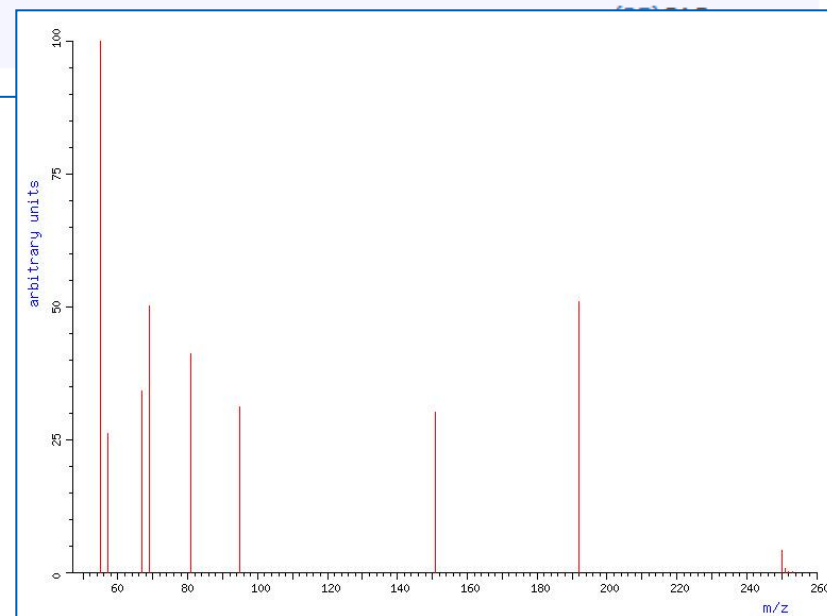
Lipinski and Related Properties	Value	Condition	Note	Top
logP	See full text	1 of 2	(12)CAS	

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			

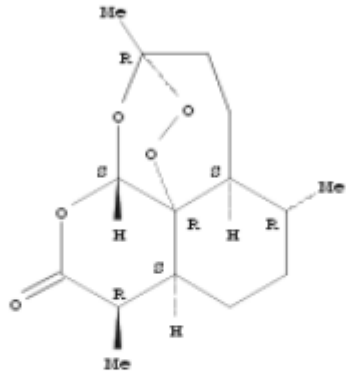
物质的实验谱图



物质有关的文献信息

1. 63968-64-9

~3511   ~105 




Absolute stereochemistry.

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

[Regulatory Information](#)
[Spectra](#)
[Experimental Properties](#)

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.

物质有关的反应

1. **63968-64-9** 🔍

~3511 ~105

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)-

[Regulatory Information](#)
[Spectra](#)
[Experimental Properties](#)

1. [View Reaction Detail](#) [Link](#) [Similar Reactions](#)
Single Step *Hover over any structure for more options.*

50%

[Overview](#)

Get Reactions ⓘ

Limit results by reaction role:

Product

Reactant

Reagent

Reactant or reagent

Catalyst

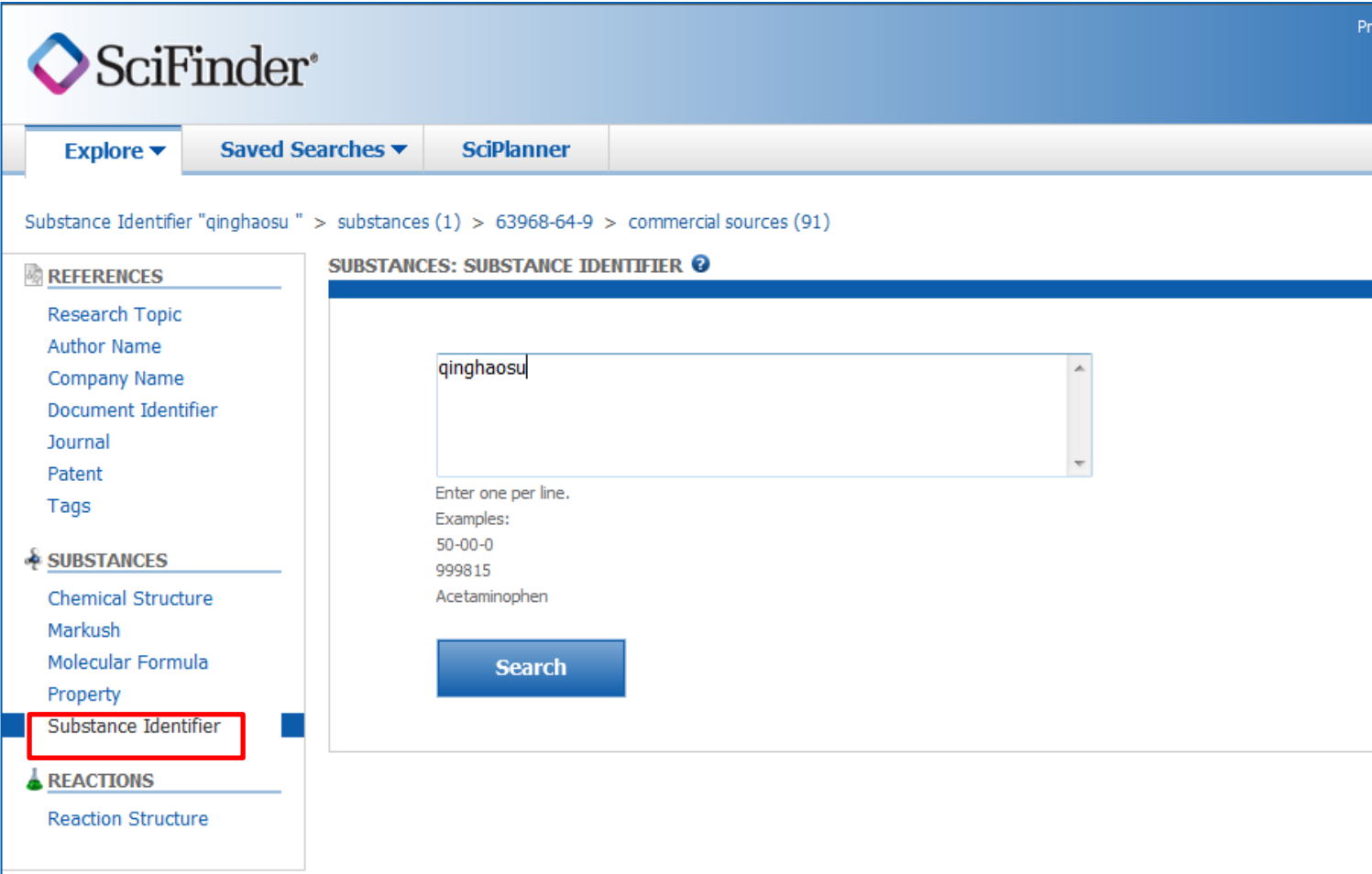
Solvent

Any role

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 ——结构比较方便
 - 无机物 ——分子式比较方便
 - 高分子化合物 ——首先分子式, 其次结构

物质名称检索



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: SUBSTANCE IDENTIFIER

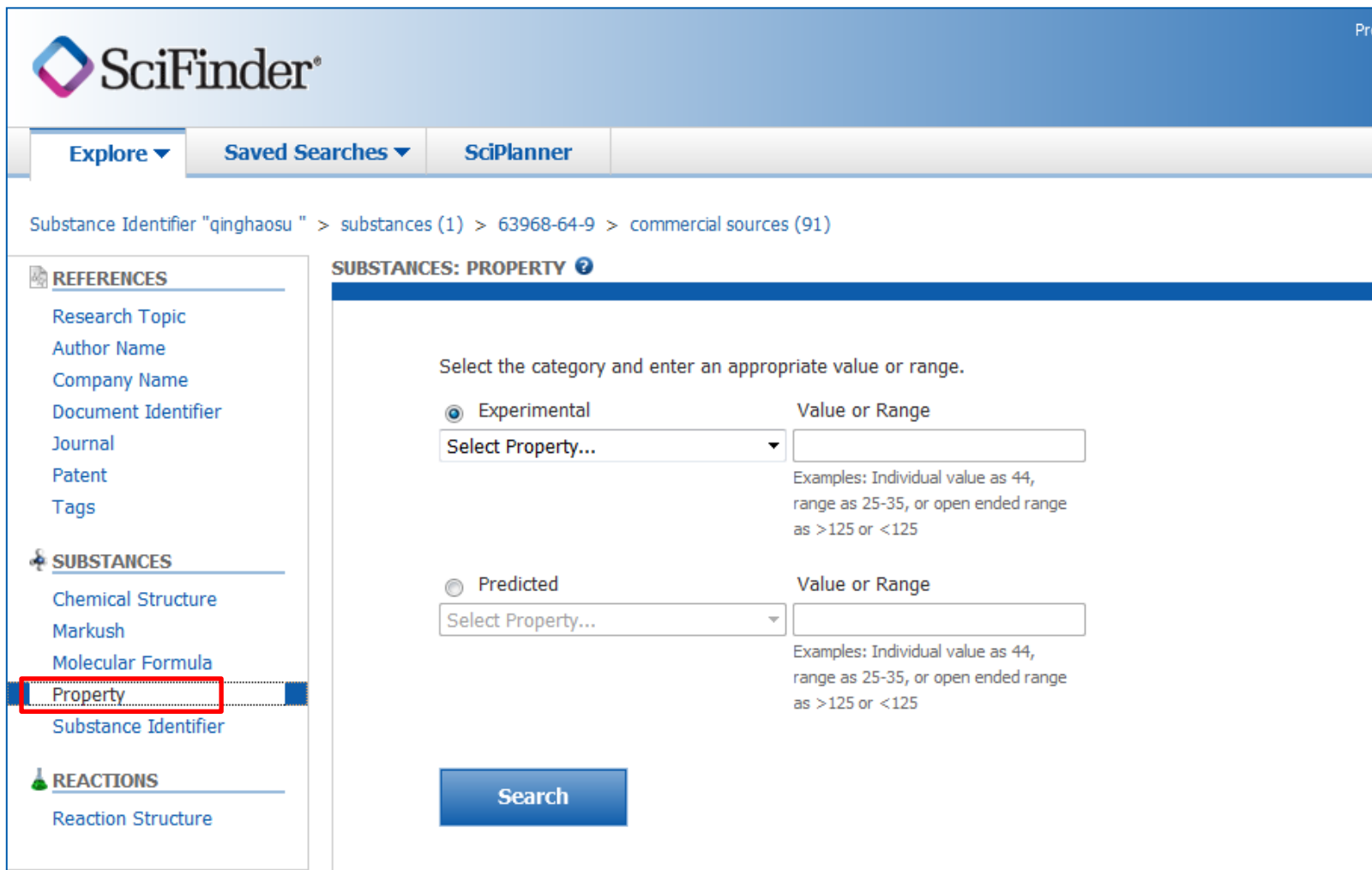
qinghaosu

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

Search

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



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: PROPERTY

Select the category and enter an appropriate value or range.

Experimental

Select Property...

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

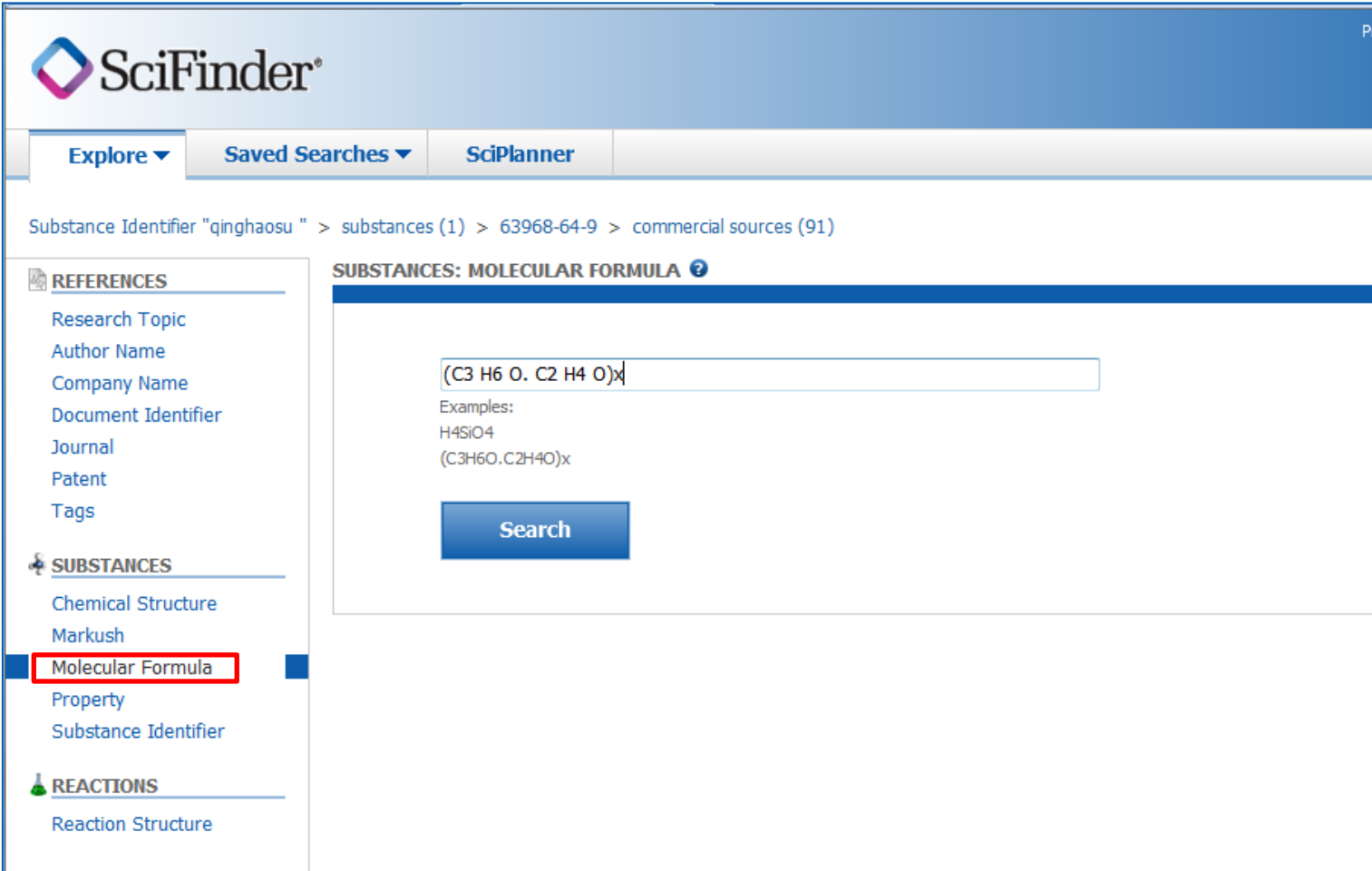
Predicted

Select Property...

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

Search

分子式检索

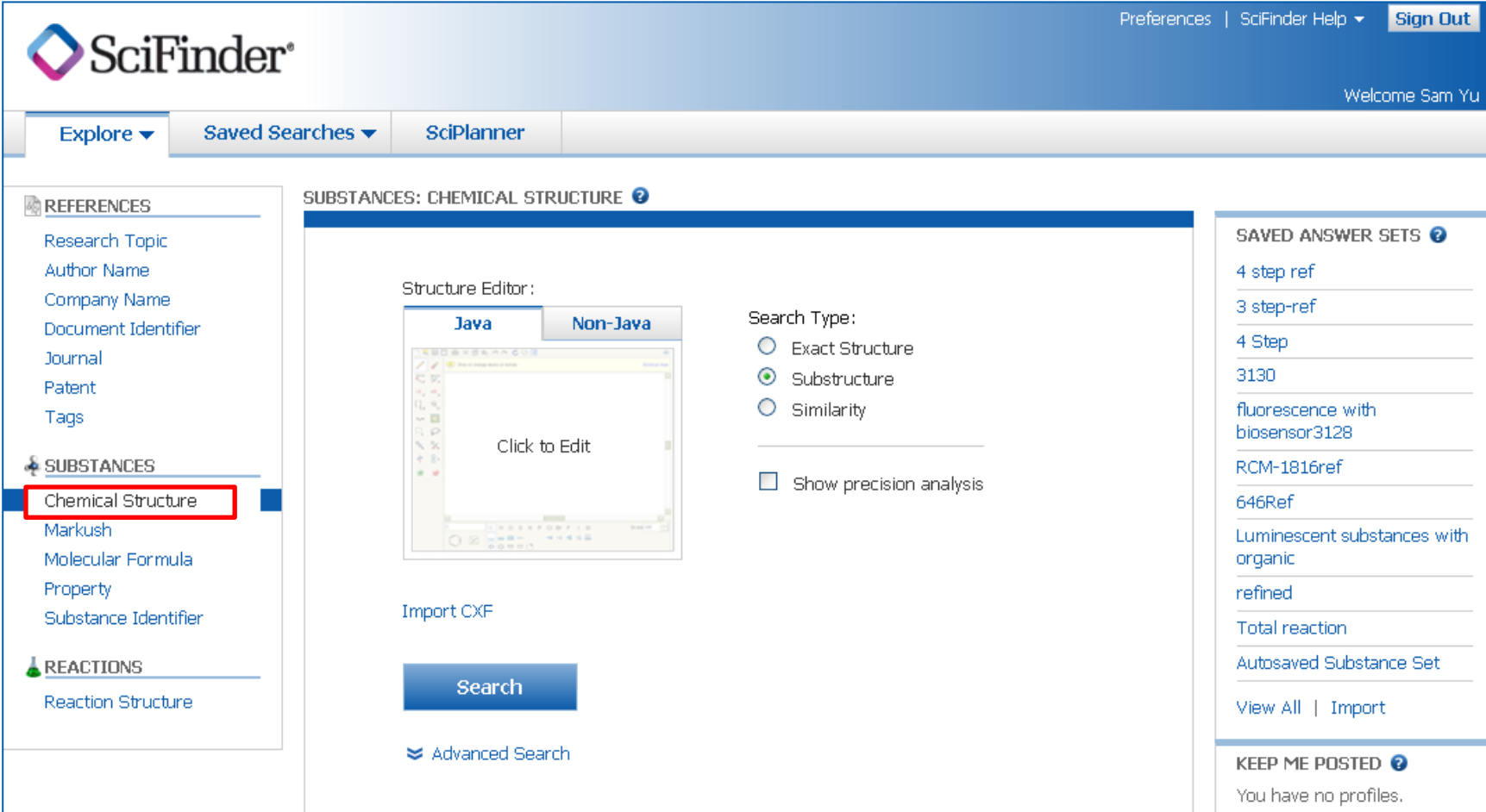


The screenshot shows the SciFinder interface with the following elements:

- Navigation:** Explore, Saved Searches, SciPlanner.
- Breadcrumbs:** Substance Identifier "qinghaosu" > substances (1) > 63968-64-9 > commercial sources (91).
- Left Sidebar:**
 - REFERENCES:** Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags.
 - SUBSTANCES:** Chemical Structure, Markush, **Molecular Formula** (highlighted with a red box), Property, Substance Identifier.
 - REACTIONS:** Reaction Structure.
- Main Content Area:**
 - Section:** SUBSTANCES: MOLECULAR FORMULA ?
 - Input Field:** (C3 H6 O. C2 H4 O)x
 - Examples:** H4SiO4, (C3H6O.C2H4O)x
 - Action:** Search button.

SciFinder中的分子式的检索，需要按照HILL排序方式输入，简单来说，CH写前面，其他的按照字母顺序写

结构式检索



The screenshot displays the SciFinder web interface. At the top right, there are links for "Preferences", "SciFinder Help", and a "Sign Out" button. Below the header, a navigation bar includes "Explore", "Saved Searches", and "SciPlanner".

The main content area is titled "SUBSTANCES: CHEMICAL STRUCTURE". On the left, a sidebar menu lists various search categories: "REFERENCES" (Research Topic, Author Name, Company Name, Document Identifier, Journal, Patent, Tags), "SUBSTANCES" (Chemical Structure, Markush, Molecular Formula, Property, Substance Identifier), and "REACTIONS" (Reaction Structure). The "Chemical Structure" option is highlighted with a red box.

The central workspace contains a "Structure Editor" window with "Java" and "Non-Java" tabs. The editor area is empty and displays "Click to Edit". To the right of the editor, the "Search Type" options are:

- Exact Structure
- Substructure
- Similarity

 There is also a checkbox for "Show precision analysis".

Below the editor, there is an "Import CXF" link and a prominent blue "Search" button. At the bottom of this section is a link for "Advanced Search".

On the right side, the "SAVED ANSWER SETS" section lists several saved search results:

- 4 step ref
- 3 step-ref
- 4 Step
- 3130
- fluorescence with biosensor3128
- RCM-1816ref
- 646Ref
- Luminescent substances with organic refined
- Total reaction
- Autosaved Substance Set

 At the bottom of this list are links for "View All" and "Import".

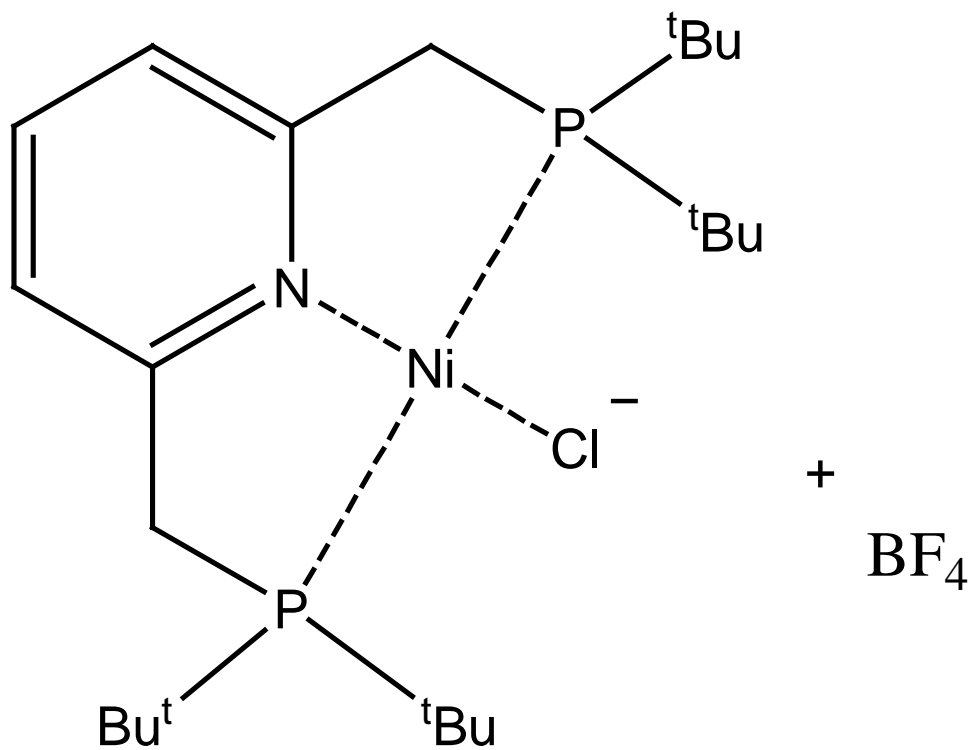
At the very bottom right, the "KEEP ME POSTED" section indicates "You have no profiles."

SciFinder结构绘制工具

The image shows the SciFinder Structure Editor interface with various tools highlighted by red boxes and Chinese labels. The interface includes a toolbar on the left, a central drawing area, and a right-hand panel with search options. The labels are as follows:

- 铅笔 (Pencil)
- 橡皮 (Eraser)
- 结构和反应切换功能 (Structure and reaction switching 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)
- 可变位置连接工具 (Variable position connection tool)
- 重复基团工具 (Repeat group tool)
- 模版工具 (Template tool)
- 碳链工具 (Carbon chain tool)
- 索套选择工具 (Lasso selection tool)
- 选择工具 (Selection tool)
- 原子锁定工具 (Atom locking tool)
- 环锁定工具 (Ring locking tool)
- 镜面旋转工具 (Mirror rotation tool)
- 旋转工具 (Rotation tool)
- 正电子 (Positive charge)
- C原子和单键恢复工具 (C-atom and single bond recovery tool)
- 负电子 (Negative charge)
- 结构检索选择 (Structure search selection)
- 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, multi-ring tool)

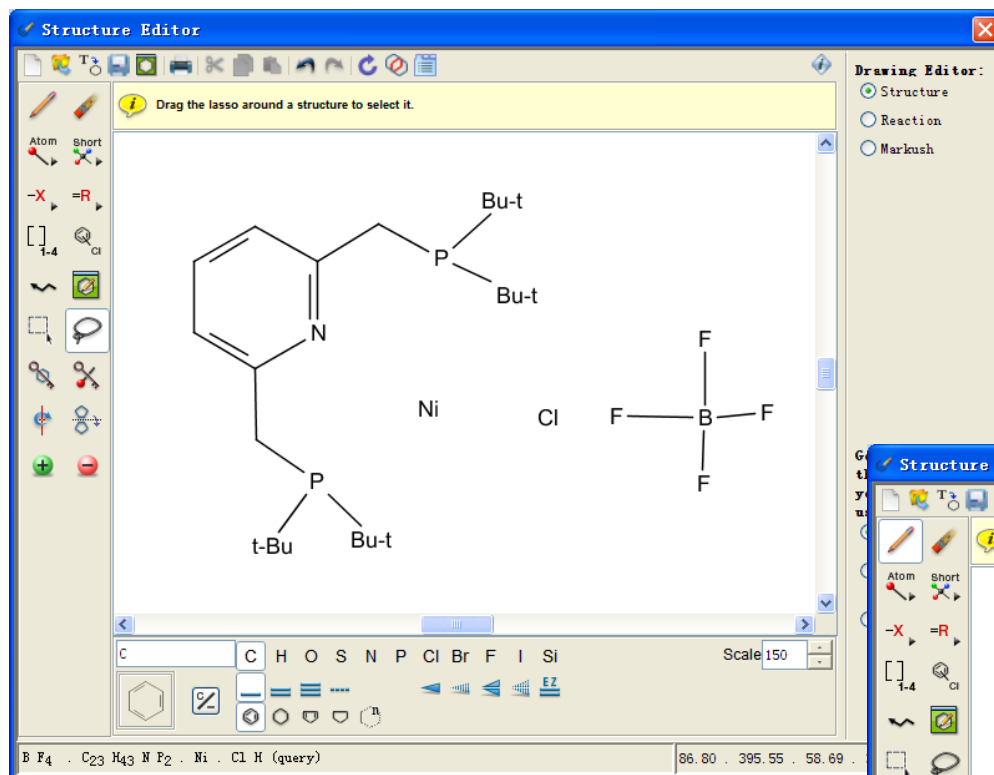
精确结构检索—检索金属配合物



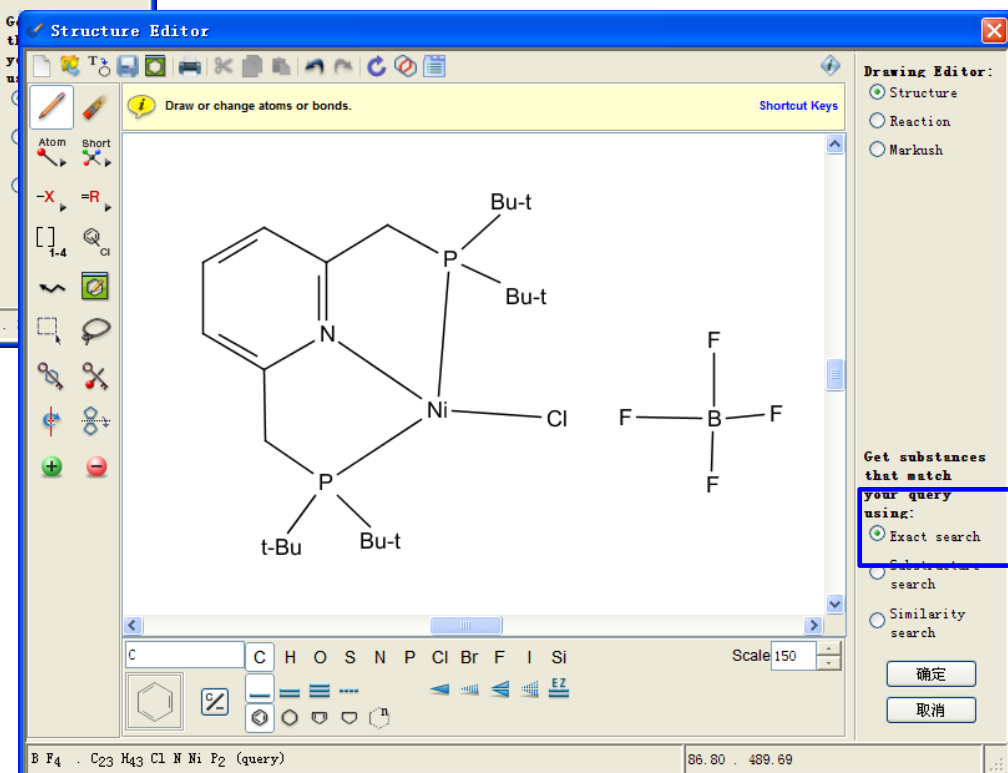
该结构中包含：

配体
金属
阳离子
阴离子

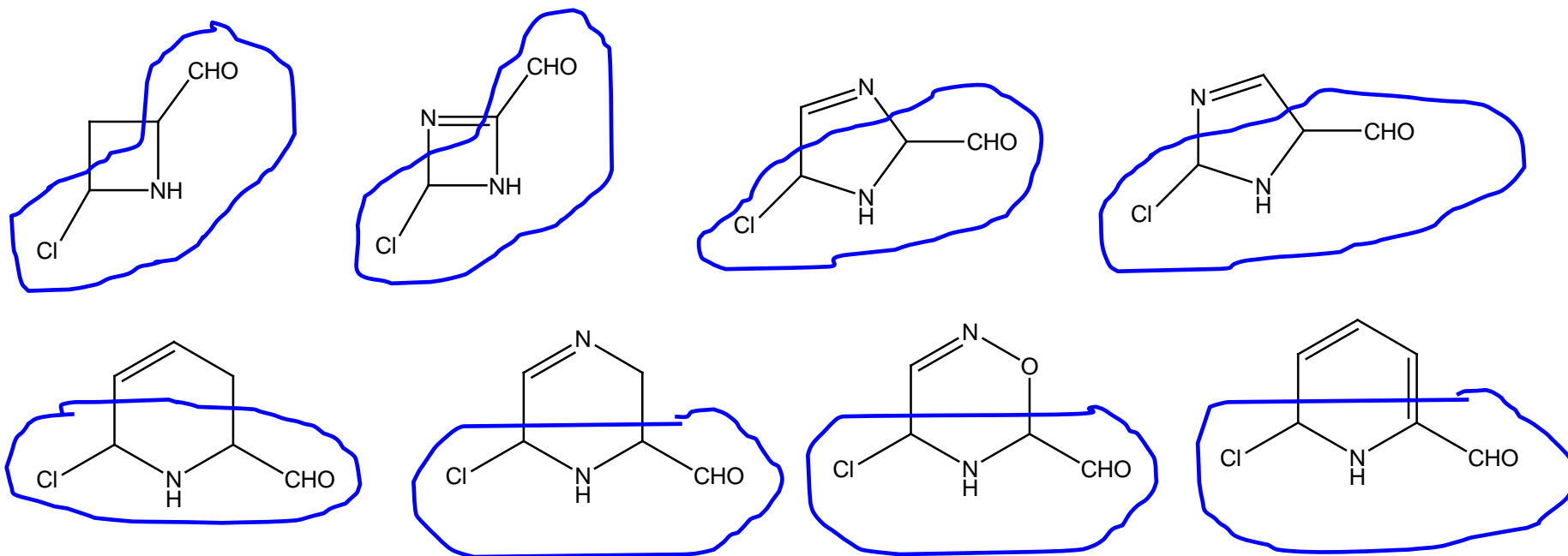
检索界面



任何一种结构, 使用精确结构都可以检索到

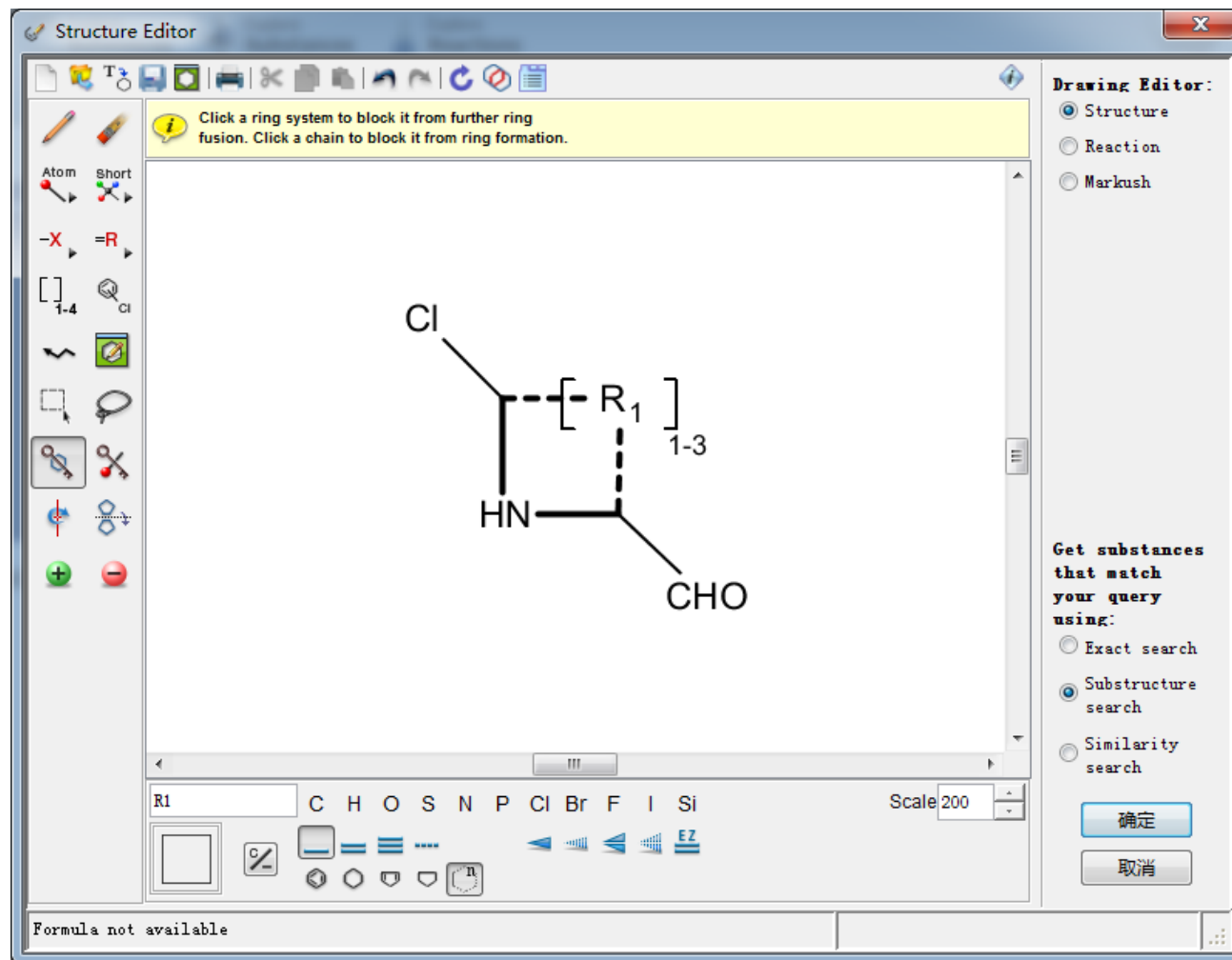


我想获得以下的一系列物质




○ ○ ○ ○ ○ ○

结构定义



用亚结构检索获得所有的物质

亚结构检索结果

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

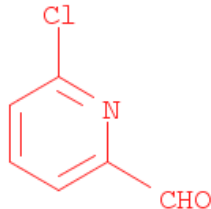
Prophetic in Patents 8

Properties 6

Formation, Nonpreparative 2

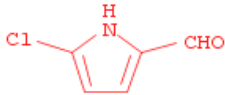
Analytical Study 1

1. Substance Detail
54087-03-5



C₆ H₄ Cl N O

2. Substance Detail
1757-28-4

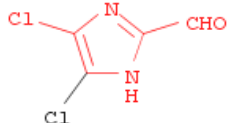


C₅ H₄ Cl N O

1H-Pyrrole-2-carboxaldehyde, 5-chloro-

Experimental Properties

3. Substance Detail
81293-97-2



C₄ H₂ Cl₂ N₂ O

1H-Imidazole-2-carboxaldehyde, 4,5-dichloro-

CAS is a division of the American Chemical Society.

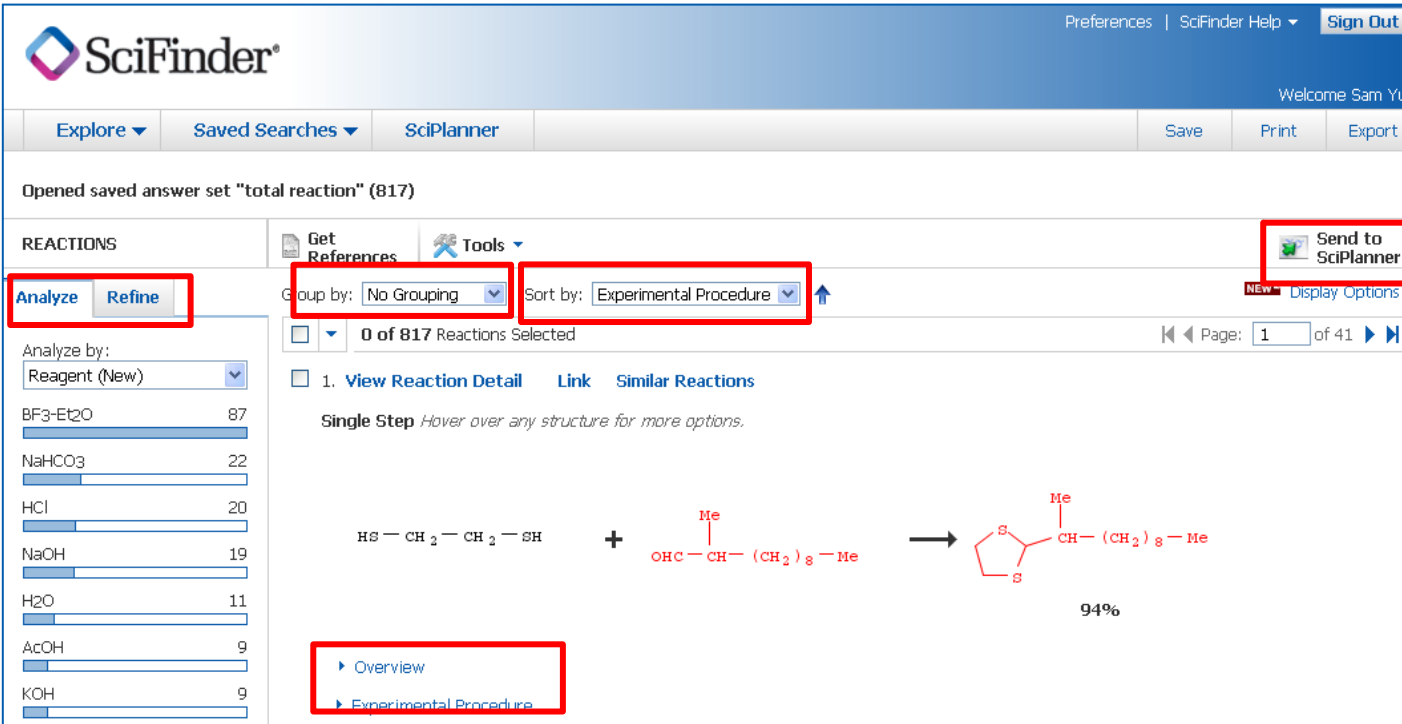
Copyright 2013 American Chemical Society. All rights reserved.

42

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的注册和常见问题**

SciFinder Web中的反应记录



SciFinder[®] Preferences | SciFinder Help | Sign Out

Welcome Sam Yu

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

Opened saved answer set "total reaction" (817)

REACTIIONS

Get References Tools

Analyze Refine

Group by: No Grouping Sort by: Experimental Procedure

Send to SciPlanner

Analyze by:

Reagent (New)	
BF ₃ -Et ₂ O	87
NaHCO ₃	22
HCl	20
NaOH	19
H ₂ O	11
AcOH	9
KOH	9

0 of 817 Reactions Selected

1. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.

HS-CH2-CH2-SH + CC(O)CCCCCCCCC → CC1SC(C)SC1CCCCCCCC 94%

Overview
Experimental Procedure

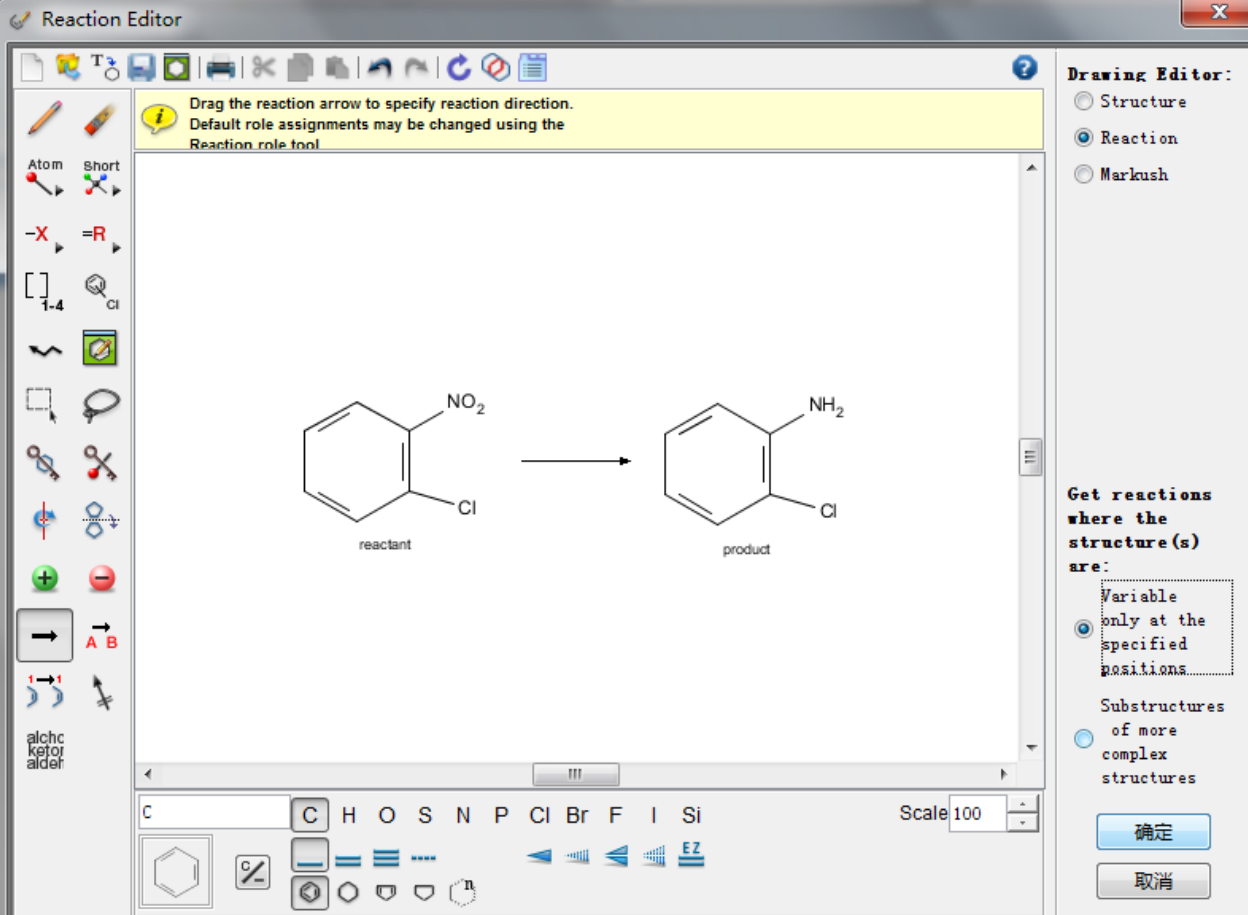
1. 反应分组功能
2. 反应排序功能
3. 反应后处理功能
4. 反应全景及实验过程
5. SciPlanner

SciFinder中的反应定义工具

The image shows the 'Reaction Editor' window in SciFinder. The interface is divided into several sections:

- Left Toolbar:** Contains various drawing tools for atoms, bonds, and reaction symbols. Red boxes highlight:
 - 反应箭头:** Points to the reaction arrow icon.
 - 反应原子标记工具:** Points to the atom labeling tool (A, B).
 - 反应官能团列表:** Points to the functional group list (alchc, ketol, aldet).
- Central Drawing Area:** A large white space for drawing chemical structures. A red box labeled **反应角色工具** points to the reaction role tool (A, B).
- Right Panel:** Contains the 'Drawing Editor' section with radio buttons for 'Structure', 'Reaction', and 'Markush'. Below it is the 'Get reactions where the structure(s) are:' section with options for 'Variable' and 'Substructures'.
- Bottom Panel:** Includes a chemical formula input field (C, H, O, S, N, P, Cl, Br, F, I, Si), a scale control (Scale 100), and various drawing options.

SciFinder 反应检索



Reaction Editor

Drag the reaction arrow to specify reaction direction.
 Default role assignments may be changed using the Reaction role tool.

reactant → product

Structure
 Reaction
 Markush

Get reactions where the structure(s) are:

Variable only at the specified positions

Substructures of more complex structures

确定
 取消

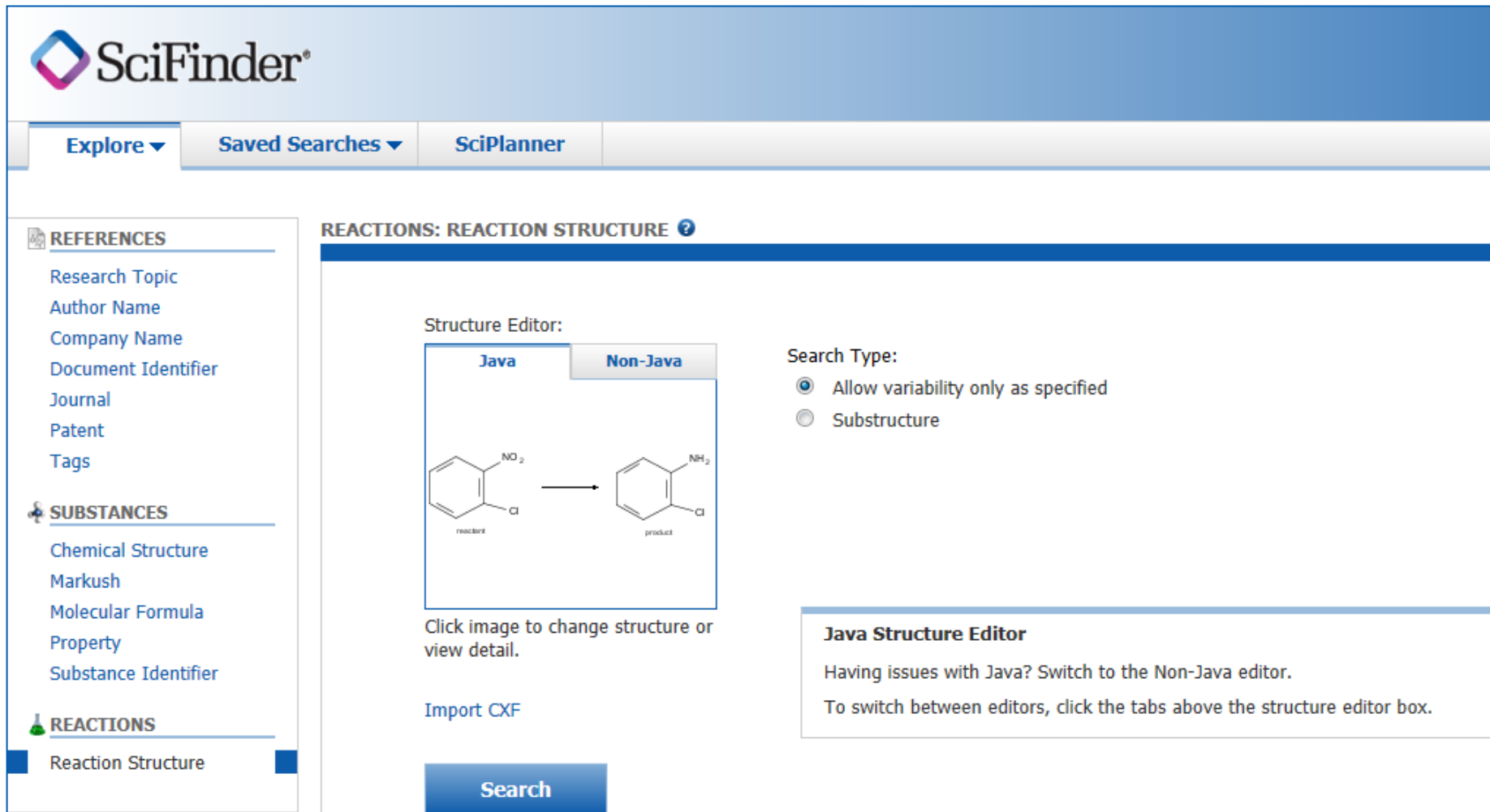
C H O S N P Cl Br F I Si

Scale 100

Allow variability only as specified: 仅在特定位点发生变化

Substructure: 亚结构检索，允许有更多取代情况

反应检索界面



SciFinder[®]

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

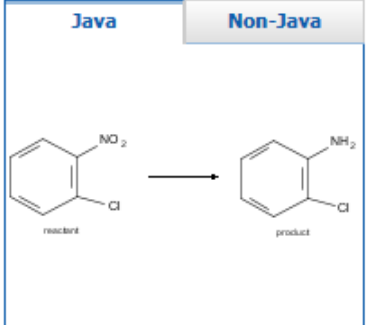
REACTIONS

- Reaction Structure

REACTIONS: REACTION STRUCTURE ?

Structure Editor:

Java Non-Java



Click image to change structure or view detail.

Import CXF

Search

Search Type:


- Allow variability only as specified
- Substructure

Java Structure Editor

Having issues with Java? Switch to the Non-Java editor.

To switch between editors, click the tabs above the structure editor box.

精确反应检索结果



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

Explore ▾
Saved Searches ▾
SciPlanner
Save
Print
Export

Reaction Structure structure variable only at spe... > **reactions (335)**

REACTIONS ⓘ

[Get References](#)

[Tools](#) ▾

[Send to SciPlanner](#)

[Analyze](#) | [Refine](#)

Group by: No Grouping ▾ | Sort by: Relevance ▾ | ⏴

NEW [Display Options](#)

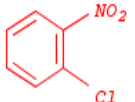
Analyze by: ⓘ
 Reagent (New) ▾

H ₂	196
N ₂ H ₄ -H ₂ O	23
H ₂ O	17
NaOH	17
CO	15
KOH	15
Me ₂ CHOH	8

0 of 335 Reactions Selected
⏪ Page: 1 of 14 ⏩

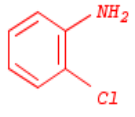
1. [View Reaction Detail](#) ⓘ [Link](#) ⓘ [Similar Reactions](#)

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



~90

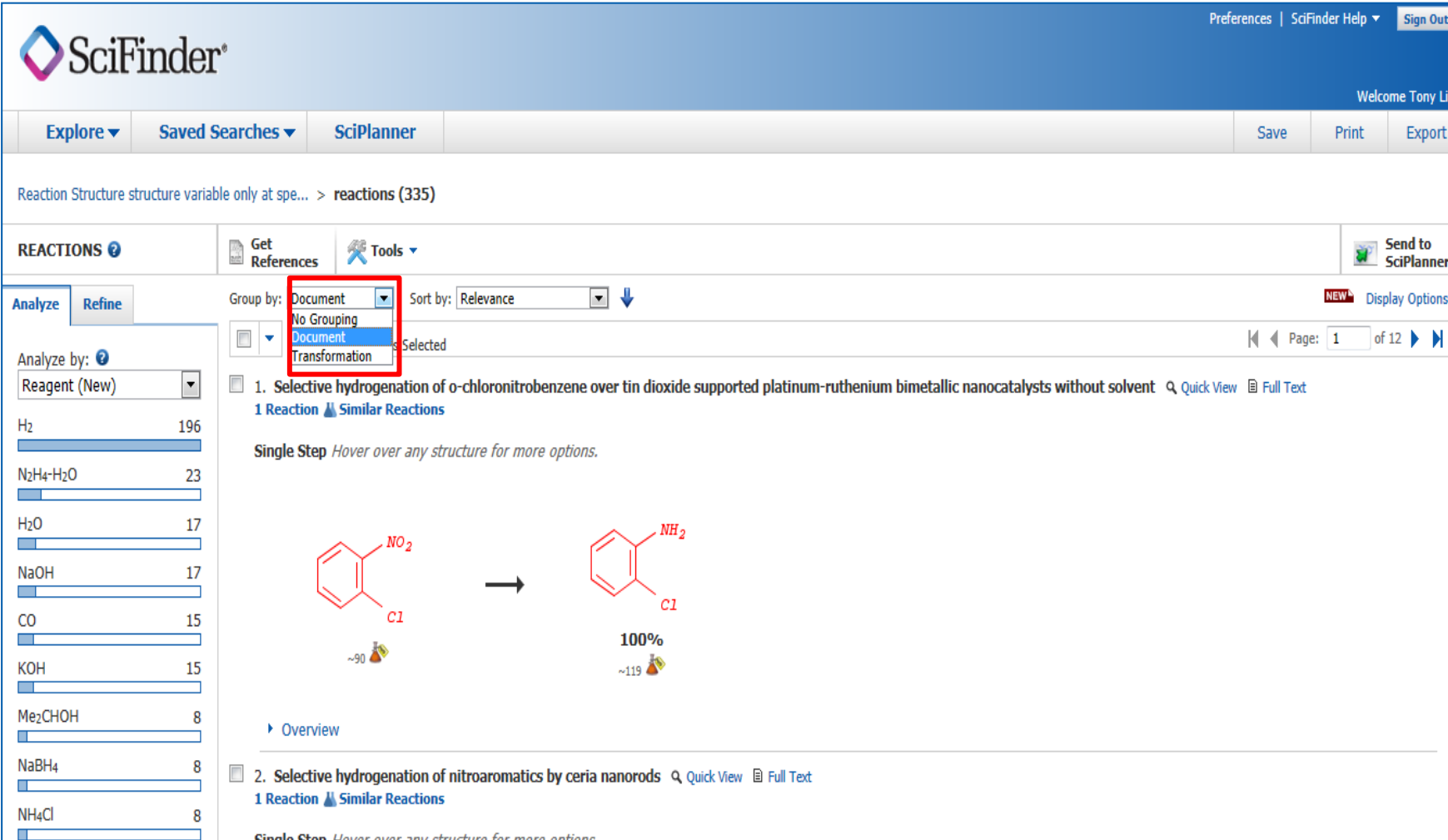
→



100%
~119

▸ [Overview](#)

Group by Document 按照出处文献分类显示



Reaction Structure structure variable only at spe... > reactions (335)

REACTIONS Get References Tools Send to SciPlanner

Analyze Refine Group by: Document Sort by: Relevance NEW Display Options

Analyze by: Reagent (New)

H ₂	196
N ₂ H ₄ +H ₂ O	23
H ₂ O	17
NaOH	17
CO	15
KOH	15
Me ₂ CHOH	8
NaBH ₄	8
NH ₄ Cl	8

1. Selective hydrogenation of o-chloronitrobenzene over tin dioxide supported platinum-ruthenium bimetallic nanocatalysts without solvent Quick View Full Text

1 Reaction Similar Reactions

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

O=[N+]([O-])c1ccccc1Cl → Nc1ccccc1Cl

~90 100%

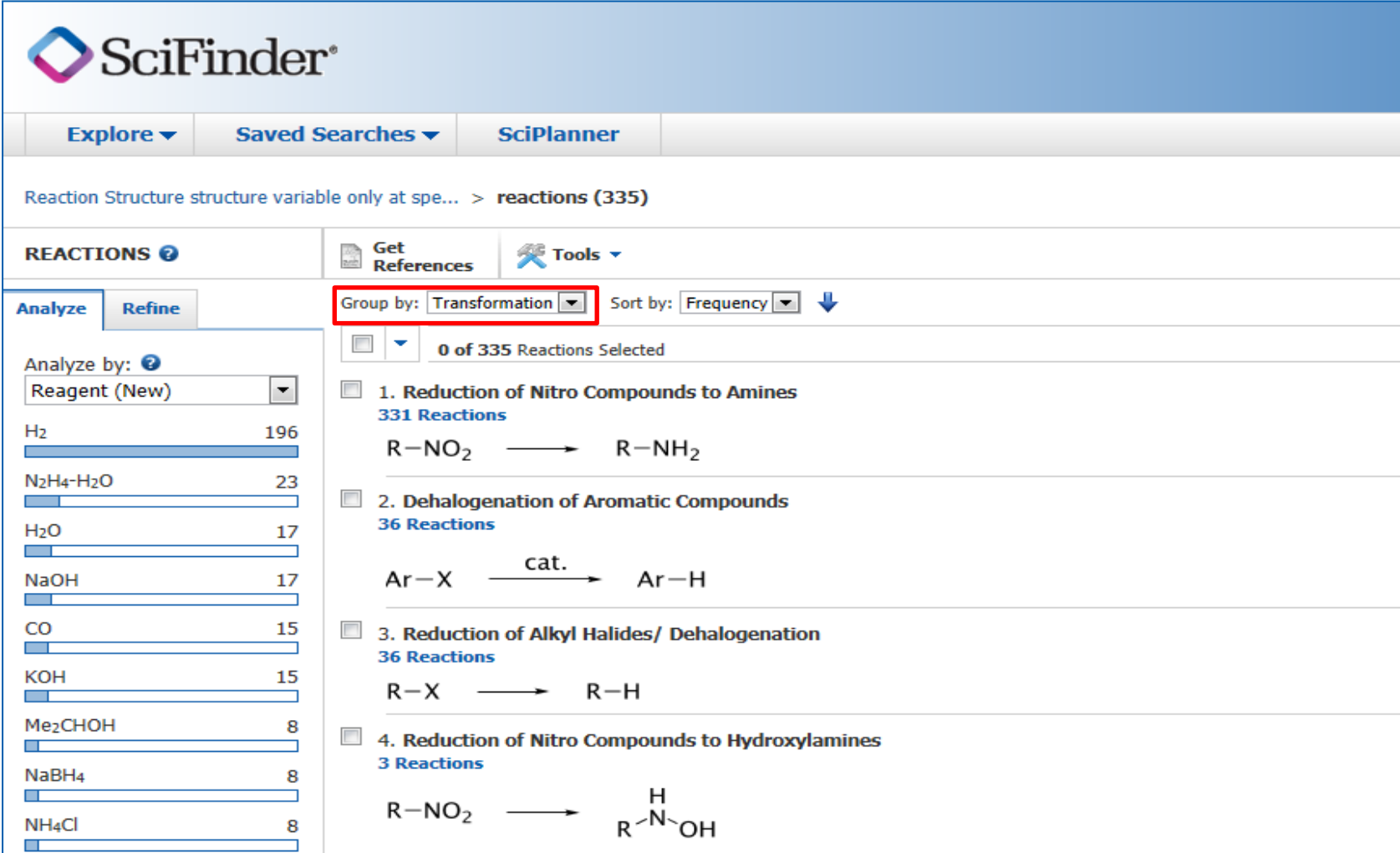
2. Selective hydrogenation of nitroaromatics by ceria nanorods Quick View Full Text

1 Reaction Similar Reactions

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

来自同一篇文章的反应都被整合到一起并集中显示

Group by Transformation 按照反应类型分类显示



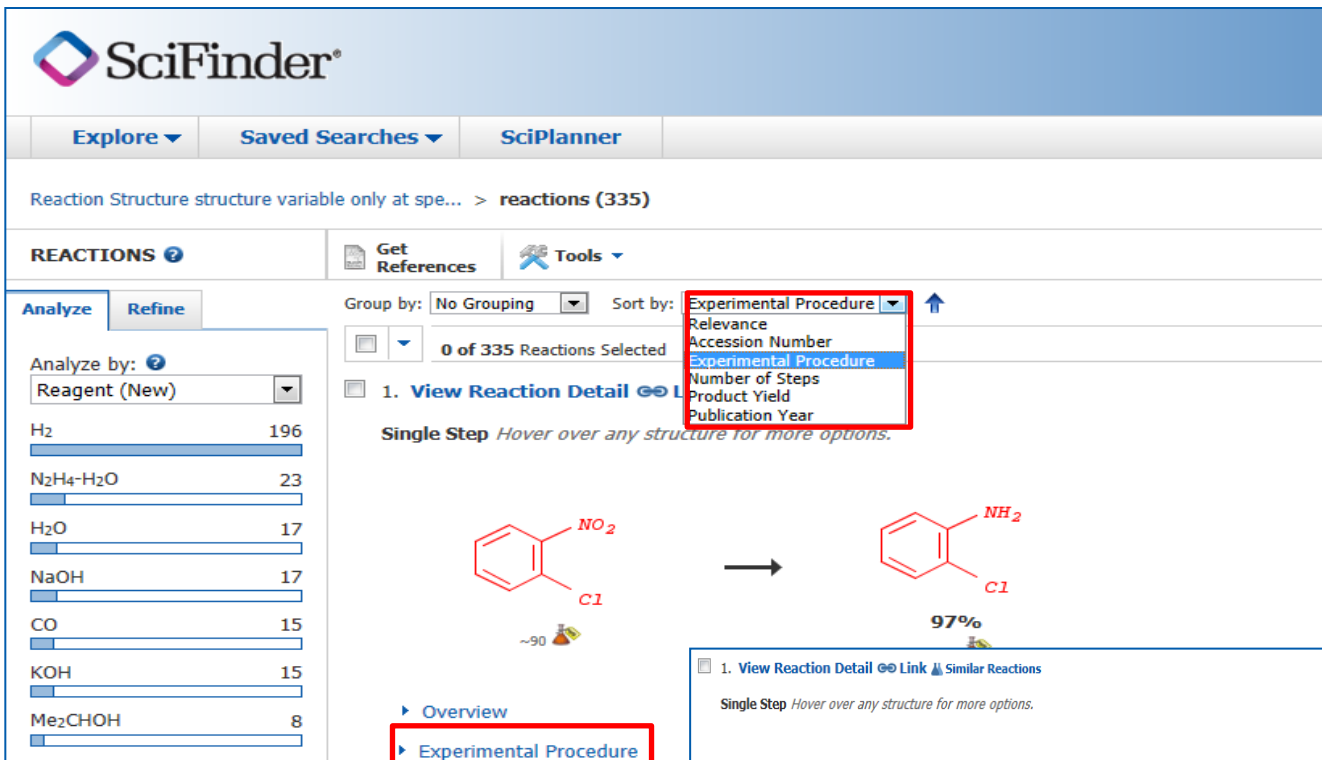
The screenshot shows the SciFinder interface with the following elements:

- Navigation:** Explore, Saved Searches, SciPlanner.
- Path:** Reaction Structure structure variable only at spe... > reactions (335)
- Tools:** Get References, Tools.
- Grouping:** Group by: Transformation (highlighted in a red box), Sort by: Frequency.
- Analysis:** Analyze by: Reagent (New) with a list of reagents and their counts:

H ₂	196
N ₂ H ₄ -H ₂ O	23
H ₂ O	17
NaOH	17
CO	15
KOH	15
Me ₂ CHOH	8
NaBH ₄	8
NH ₄ Cl	8
- Reaction Results:**
 - 0 of 335 Reactions Selected
 - 1. Reduction of Nitro Compounds to Amines (331 Reactions): $R-NO_2 \longrightarrow R-NH_2$
 - 2. Dehalogenation of Aromatic Compounds (36 Reactions): $Ar-X \xrightarrow{cat.} Ar-H$
 - 3. Reduction of Alkyl Halides/ Dehalogenation (36 Reactions): $R-X \longrightarrow R-H$
 - 4. Reduction of Nitro Compounds to Hydroxylamines (3 Reactions): $R-NO_2 \longrightarrow R-\overset{H}{N}-OH$

同一类反应被整合到一起并以通式结构集中显示；
 仅适用于单步反应，未被分类的反应显示在结果集最后

获得有实验步骤的反应结果集



SciFinder®

Explore ▾ Saved Searches ▾ SciPlanner

Reaction Structure structure variable only at spe... > reactions (335)

REACTIONS ⓘ

Get References Tools ▾

Analyze Refine

Analyze by: ⓘ

Reagent (New) ▾

H ₂	196
N ₂ H ₄ ·H ₂ O	23
H ₂ O	17
NaOH	17
CO	15
KOH	15
Me ₂ CHOH	8

Group by: No Grouping ▾ Sort by: Experimental Procedure ▾ ↑

Relevance
 Accession Number
Experimental Procedure
 Number of Steps
 Product Yield
 Publication Year

0 of 335 Reactions Selected

1. View Reaction Detail ⓘ Link

Single Step Hover over any structure for more options.

Overview
Experimental Procedure

Chemical reaction: 2-nitrochlorobenzene (SMILES: O=[N+]([O-])c1ccccc1Cl) → 2-chloroaniline (SMILES: Nc1ccccc1Cl)

Yield: 97%

1. View Reaction Detail ⓘ Link Similar Reactions

Single Step Hover over any structure for more options.

Chemical reaction: 2-nitrochlorobenzene (SMILES: O=[N+]([O-])c1ccccc1Cl) → 2-chloroaniline (SMILES: Nc1ccccc1Cl)

Yield: 97%

Overview

Experimental Procedure

JOC The Journal of Organic Chemistry

General/Typical Procedure: **Reflux Conditions (Table 1)**. To a solution of 2.0 mmol of substrate **Preparation and Isolation of Fe₃O₄ Nanoparticles**. A solution of Fe(acac)₃ (0.02 mmol (7.1 mg) and hydrazine hydrate (2 mmol) in methanol (1.5 mL) was placed into a 10 mL microwave vial and heated at 150 °C for 1 minutes. The resulting mixture was cooled at room temperature and after 20-30 min the black precipitate was retrieved with magnetic separation or centrifugation (5000 rpm, 5 min). The solid was washed 3 times with fresh methanol and dried overnight in a drying oven at 70 °C. The obtained Fe₃O₄ nanocrystals were characterized by means of X-ray powder diffraction (XRD) and high-resolution transmission electron microscopy (HRTEM).¹⁶ **Reflux Conditions (Table 1)**. To a solution of 2.0 mmol of substrate in ethanol (1.5 mL) were added 3.6 mmol (1.2 equiv, 0.175 mL) of N₂H₄·H₂O and 3 mol % Fe(acac)₃. The mixture was placed into a 10 mL round-bottom flask and heated at reflux for the desired time (Table 1). When the nitroarene was consumed the reaction mixture was cooled to room temperature. Then, the solvent was evaporated under reduced pressure and the crude product purified by flash chromatography (hexane/ethyl acetate). Careful solvent evaporation yielded the pure aniline. **Aniline (Table 1, entry 1); Table 4. Reduction of Nitroarenes with Hydrazine Hydrate Catalyzed by in-situ Generated Fe₃O₄ Nanocrystals under Microwave Irradiation^a Entry 3 Yield 97%.**

反应结果集的分析限定工具

Analyze Refine

Analyze by: ?

Reagent (New) ▼

- Author Name
- Catalyst
- Company-Organization
- Complete Iterations
- Document Type
- Experimental Procedure
- Journal Name
- Language
- Number of Steps
- Product Yield
- Publication Year
- Reagent (New)
- Solvent

C ₂ H ₆	5
CH ₄	4
ClCH ₂ CH ₂ Cl	4
Na	4

Show More

反应分析类型:

作者姓名	出版语言
催化剂	出版年代
机构名称	反应步数
文献类型	产率
期刊名称	试剂
实验步骤	溶剂

反应的限定功能:

- 反应式
- 产率
- 反应步数
- 反应类型
- 排除的反应类型
- 不参与反应的基团

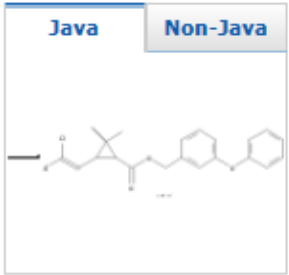
Analyze Refine

Refine by: ?

- Reaction Structure
- Product Yield
- Number of Steps
- Reaction Classification
- Excluding Reaction Classification
- Non-participating functional groups

Structure Editor:

Java Non-Java



Click image to change structure or view detail.

Search type: **Allow variability only as specified**

Refine

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

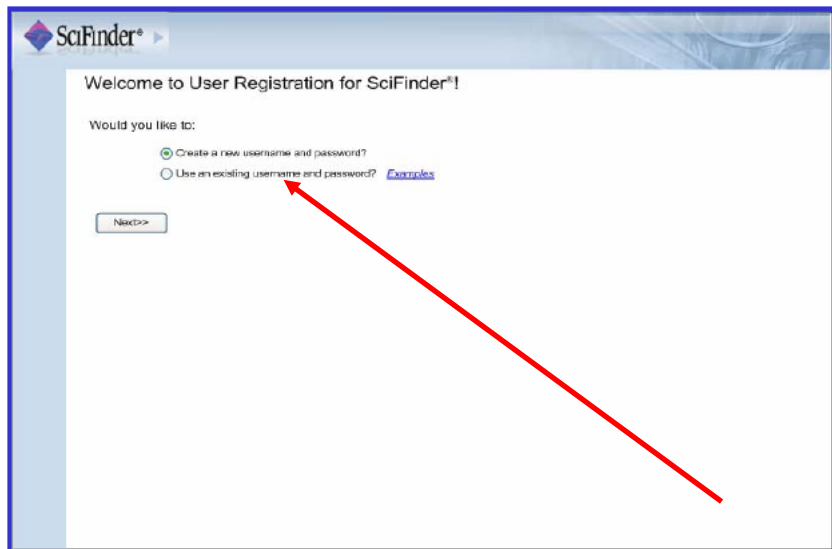
Windows用户支持IE 9. x或者FireFox 2. x

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 7）

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!

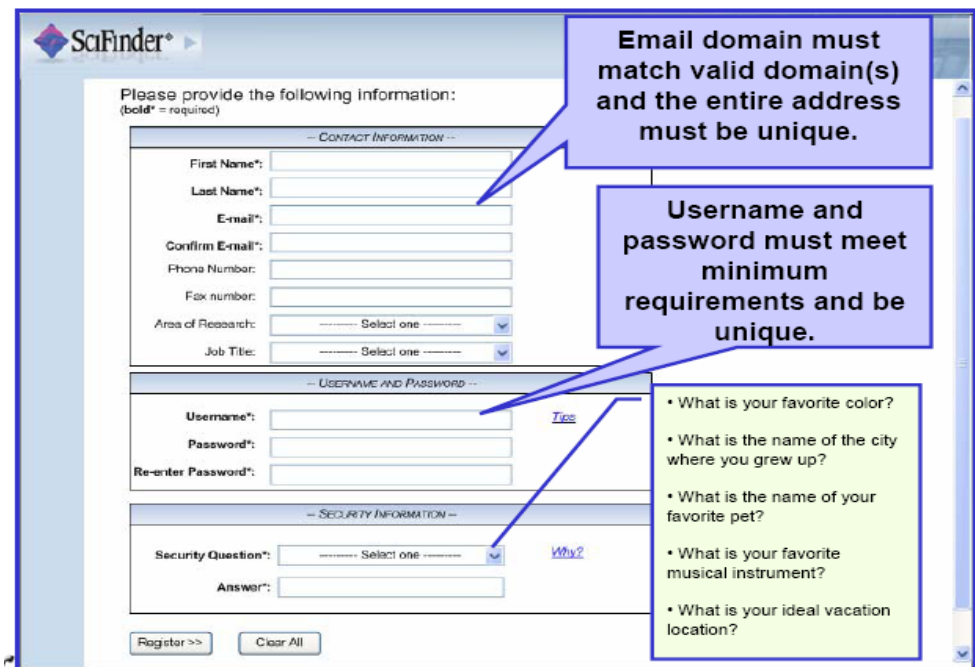
Would you like to:

Create a new username and password?

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

请用邮箱注册，一人只能注册一个账号

开始创建SciFinder Web帐号



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*: [Tips](#)

Password*:

Re-enter Password*:

--- SECURITY INFORMATION ---

Security Question*: Select one [Why?](#)

Answer:

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：

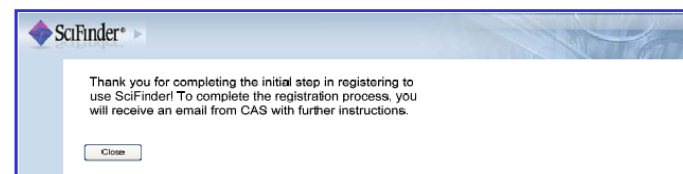
必须包含 7-15 个字符，并且至少包含三个以下字符：

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

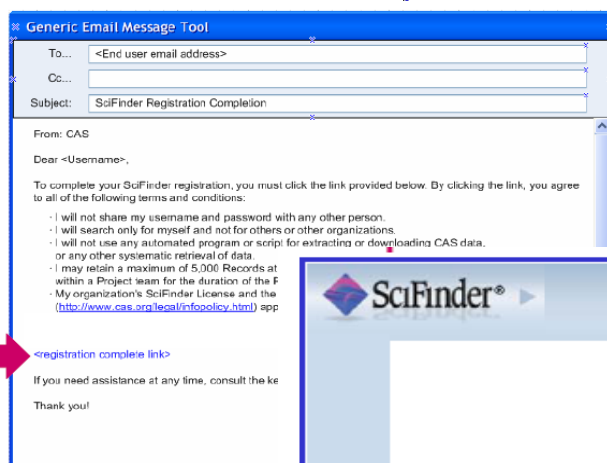
密码设置小技巧：

- 1：不要和账号中有重复的字符
- 2：密码格式最好是abc@123

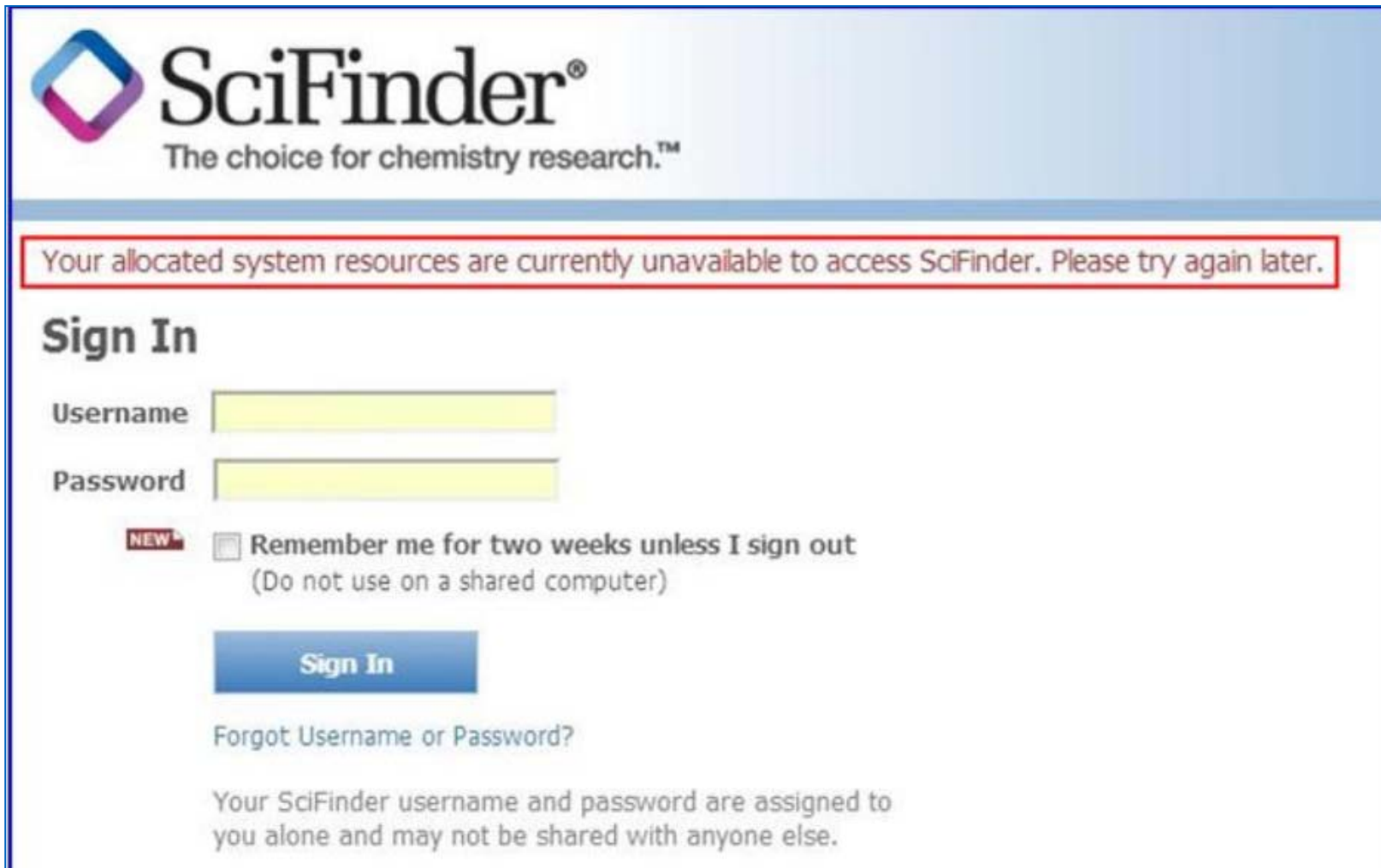
对新ID的Email确认




48小时内，需要点击邮件中的确认链接



SciFinder Web 常见问题



 SciFinder®
The choice for chemistry research.™

Your allocated system resources are currently unavailable to access SciFinder. Please try again later.

Sign In

Username

Password

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

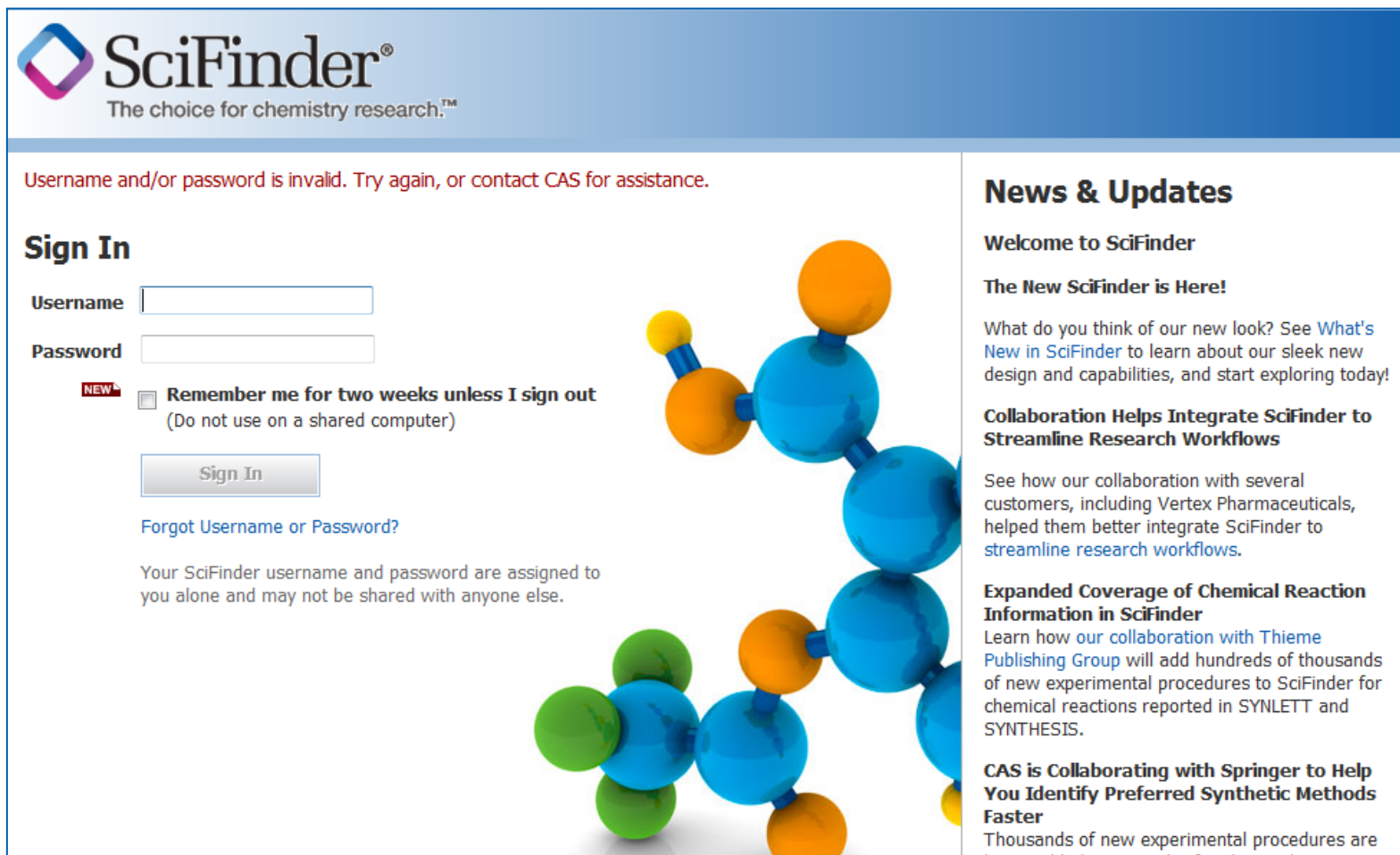
Sign In

[Forgot Username or Password?](#)

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

并发用户数已满，请稍后再试

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



The screenshot shows the SciFinder website interface. At the top left is the CAS logo with the text "A division of the American Chemical Society". To the right is a molecular structure graphic. Below the header is a navigation menu on the left with the following items: 常见问题, 资源下载, 新闻与公告, 在线演示, 网络培训, 加入我们. The main content area is titled "CAS资源下载" and contains three sections: "SciFinder 快速参考手册 NEW" with a link to "SciFinder 快速参考手册"; "案例研究 NEW" with links to "特鲁瓦达-首个艾滋病预防药物", "纳米材料药物研究", "准晶体", "肝素", "反应定义工具案例", "SciFinder新界面-自修复材料", "N-二甲基亚硝胺NDMA", "case study 没食子酸丙酯", "case study-肉毒毒素", and "转基因食品案例"; and "SciFinder新功能" with links to "生物活性及靶点分析" and "SciFinder R15新功能".

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

Comprehensive Content

Sophisticated Analysis

Unprecedented Results



Thank You

刘衍兰

SciFinder 培训专员

Mail: tony@igroup.com.cn

QQ答疑群: 275247551