



SciFinder Web

Introduction to Searching SciFinder Web

Presented by

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April 2011



SciFinder Web

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- 1. What is SciFinder**
 - a. Overview**
 - b. Registration**
 - c. Installing Java Script**

- 2. How to Search SciFinder**
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- 3. How to Obtain Retrieved Information**
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SciFinder Web

1. What is SciFinder

a. Overview

- SciFinder is the major English language bibliographic database covering all aspects of chemistry and chemical engineering.
- It indexes articles published internationally in journals and conference proceedings and also includes references to book chapters, patents, dissertations, etc.
- Over 1,500 key chemical journals are indexed cover to cover since 1994.
- Over 10,000 journals are monitored.
- Goes back to 1907 and updated daily (selected coverage back to the early 1800s)
- For up-to-date coverage see [CAS Database Content at a Glance](#)



SciFinder Web

1. What is SciFinder

a. Overview (cont'd)

- Citations to journal articles and patents are available from 1997
- Full-text linking is available to journals McMaster Libraries subscribe to
- Includes Medline from 1950, a bibliographic database covering medicine and related areas

b. Registration

- First-time users need to register. For registration information and to access the database from campus or home, see the following link:
- <http://libstaff.mcmaster.ca/journals/SciFinder-Registration.html>



SciFinder Web

1. What is SciFinder

c) Installing Java Plug-In

A free Java plug-in is required for structure searching in SciFinder Web. Please consult the following website to download the Java plug-in:

<http://www.cas.org/misc/downloads/jreplugin.html>

Please note: There are 4 simultaneous accesses available. McMaster Library pays an annual subscription fee for this database. Please remember to **sign-off**.



SciFinder Web

2. How to Search SciFinder

From the Library Homepage:

library.mcmaster.ca

enter scifinder into the library catalogue and click Go

Catalogue

Articles/Databases

e-Journals

Subject Guides

Find books, journal titles, online resources and other materials in all four campus libraries and affiliates.

scifinder

Anywhere



GO



SciFinder Web

2. How to Search SciFinder (cont'd)

Click on "Link to online resource".

SciFinder Scholar [electronic resource].

By: American Chemical Society

Published: [Columbus, Ohio] : American Chemical Society, c[199-?]-

Link to online resource - SCIFINDER WEB VERSION-FOUR USERS ONLY

*McMaster only

Database

Online





First Time Users: Complete One-Time Registration Form

For McMaster University Authorized Use ONLY

The first time you use *SciFinder Web*, you must fill out a [one-time registration form](#).

- You must register individually from a computer with **a valid McMaster IP address** via the Scifinder Scholar registration page
- You will also need an email address within the "mcmaster.ca" domain in order to complete the registration and to also access the email from a computer on campus or via VPN

Then return to this page to use the web version of *SciFinder* from anywhere:

On campus: access via <https://scifinder.cas.org>

Off-campus: access via <http://libaccess.mcmaster.ca/login?url=https://scifinder.cas.org>

As of March 2010, the Library has allocated all four seats to the Web version of SciFinder.
Please remember to SIGN OUT (at the top of the screen). Sessions will time out after 10 minutes of inactivity.



SciFinder Web

2. How to Search SciFinder (cont'd) a. By Molecular Formula

Click on Explore
Substances.

SciFinder®

Welcome Regina Bendig | Sign Out

Explore References | Explore Substances | Explore Reactions | Saved Answers | Keep Me Posted | My Con

Explore References

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

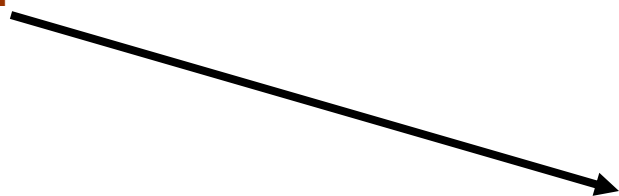
Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds



SciFinder Web

2. How to Search SciFinder a. By Molecular Formula (cont'd)

Click on
Molecular Formula.



Explore Substances

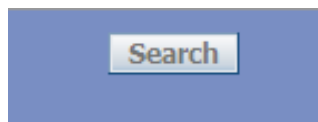
Chemical Structure	Chemical Structure
Markush	
Molecular Formula	
Substance Identifier	



SciFinder Web

2. How to Search SciFinder a. By Molecular Formula (cont'd)

Enter formula in search box and click



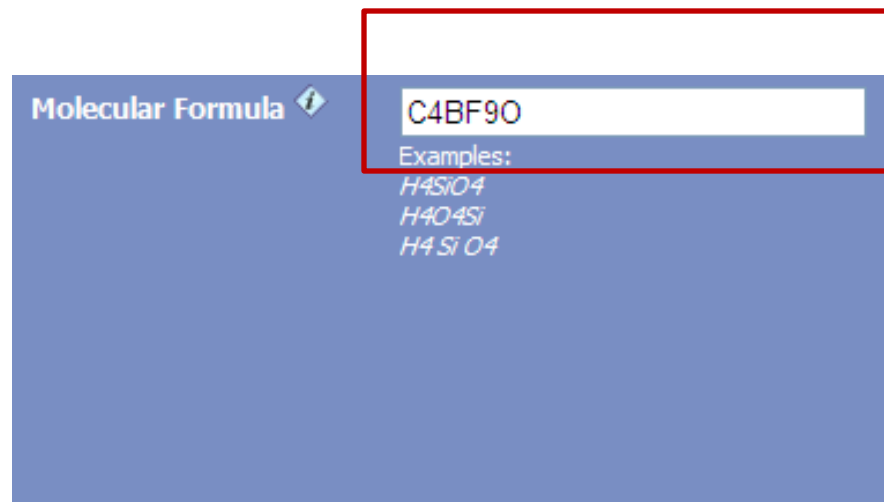
Hill order is not required, but in case no results are found, search by Hill order or search under Research Topic.

Example: $(CF_3)_3BCO$
type: C4F9BO

Example: $As_{11}Te^{3-}$
type: As11Te

Example: FSO_3F
type: F2S03
or: F2O3S

Ignore the ion charge when searching by molecular formula.

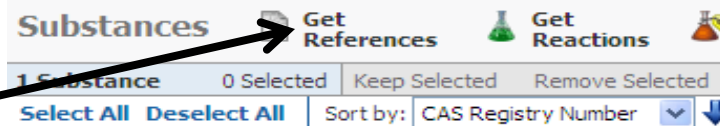




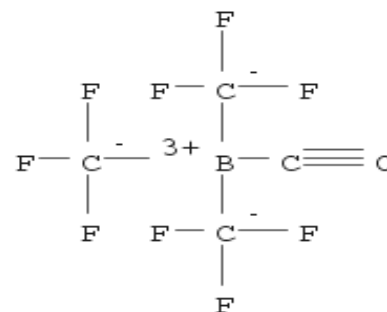
SciFinder Web

2. How to Search SciFinder a. By Molecular Formula (cont'd)

Click on Get References.



1. Substance Detail
438192-67-7





SciFinder Web

2. How to Search SciFinder

a. By Molecular Formula (cont'd)

You can select all references by clicking on "All references" and then "Get References"

Get References ⓘ

Retrieve references for:

- All substances Selected substances

For each substance, retrieve:

- All references
- References associated with:
- | | |
|---|--|
| <input type="checkbox"/> Adverse Effect, including toxicity | <input type="checkbox"/> Occurrence |
| <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 |

For each sequence, retrieve:

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

Get References

Cancel



SciFinder Web

2. How to Search SciFinder a. By Molecular Formula (cont'd)

Select "References associated with" for a particular aspect, such as the crystal structure.

Then click on Get References

For more details on searching inorganic compounds see [A. Ben Wagner's Searching Inorganic Substances in SciFinder and Table.](#)

Get References ⓘ

Retrieve references for:

- All substances Selected substances

For each substance, retrieve:

- All references

References associated with:

- | | |
|---|--|
| <input type="checkbox"/> Adverse Effect, including toxicity | <input type="checkbox"/> Occurrence |
| <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 checked="" 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 |

For each sequence, retrieve:

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

Get References

Cancel



2. How to Search SciFinder

a. By Molecular Formula (cont'd)

Click on "Full Text" to view the article.

If article is not available full-text, search the McMaster Libraries catalogue under the title of the journal (not title of article), name of conference proceedings or other type of source material.

References Get Substances Get Reactions Get Cited Get Citing

8 References 0 Selected Keep Selected Remove Selected

Select All Deselect All

1. **Formation of Hexacarbonylmanganese(I) Salts, $[\text{Mn}(\text{CO})_6]^+\text{X}^-$, in Anhydrous HF**
By Geier, Jens; Willner, Helge; Lehmann, Christian W.; Aubke, Friedhelm
From Inorganic Chemistry (Washington, DC, United States) (2007), 46(17), 7210-7214. English CAPLUS
A convenient 1-step synthesis for $[\text{Mn}(\text{CO})_6]^+$ salts was developed. The method involves the 1-electron oxidn. of $\text{Mn}_2(\text{CO})_{10}$ by protons in solns. of Lewis acids (BF_3 , $(\text{CF}_3)_3\text{BCO}$) and anhyd. HF. The mol. **structure** of $[\text{Mn}(\text{CO})_6][\text{BF}_4] \cdot \text{SO}_2$ was detd. by single-**crystal** x-ray diffraction. **Crystal** data: orthorhombic, space group Cmc21, a 8.7001(2), b 11.8497(3), and c 11.7437(3) Å; Z = 4; R1 = 0.0320 and wR2 = 0.1106. The structural, NMR, and vibrational spectroscopic properties of $[\text{Mn}(\text{CO})_6]^+$ fit perfectly with those of the isoelectronic species $[\text{V}(\text{CO})_6]^-$, $\text{Cr}(\text{CO})_6$, and $[\text{Fe}(\text{CO})_6]^{2+}$.

Substances Reactions Citing Full Text



SciFinder Web

2. How to Search SciFinder

b. By Author

Click on Explore References and then on Author Name.

SciFinder®

Welcome Regina Bendig | Sign Out

Create Keep Me Posted "Molecular Formula "C4 B F9 O" > substances (1) > get references (8)

Explore References

Research Topic

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

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



SciFinder Web

2. How to Search SciFinder b. By Author (cont'd)

Research Topic

Author Name ⓘ

Author Name

Company Name

Spenser | | D

Last * First Middle

Look for alternative spellings of the last name

Search

Enter last name in the first search box provided, followed by initial or first name.

Note: If you are certain of the correct spelling of the last name, you may want to check the box "Look for alternative spelling of the last name".
You can search only one name at a time.
Click on Search.



SciFinder Web

2. How to Search SciFinder b. By Author (cont'd)

Click all boxes to ensure you retrieve all the various occurrence of the author's name, including variations in initials. Depending on the publication, the author may have used one or more initial (s), or his/her full first name. You may retrieve records that may not be relevant, but this search will be comprehensive.

Click on Get References.

Author Name Candidates

2 Authors 2 Selected

Select All Deselect All

Author Candidates

<input checked="" type="checkbox"/>	SPENSER I D
<input checked="" type="checkbox"/>	SPENSER IAN D

Get References



SciFinder Web

2. How to Search SciFinder b. By Author (cont'd)

Note the number of
references retrieved.

KEEP ME POSTED Author Name "Spenser, I D" > references (159)

References Get Substances Get Reactions Get Cited

159 References 0 Selected Keep Selected Remove Selected

Select All Deselect All


1. **3-Amino-1-hydroxyacetone**
By Ullah, Nisar; Fali, Clara Nanfe; Spenser, Ian D.
From Canadian Journal of Chemistry (2004), 82(5), 579-582. English CAPLUS



SciFinder Web

2. How to Search SciFinder b. By Author (cont'd)

On the left hand side of the Scifinder page beneath the "Refine By" column, select "Author Name" and enter the second author's last and first name or first initial. Click "Refine"

Refine by 

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

Author Name:

Zeidler
Last
Johannes
First
<input type="text"/>
Middle



SciFinder Web

2. How to Search SciFinder b. By Author (cont'd)

1. Biosynthesis of vitamin B1 in yeast. Derivation of the pyrimidine unit from pyridoxine and histidine.

Intermediacy of urocanic acid

by Zeidler, Johannes; Sayer, Brian G.; Spenser, Ian D.

From Journal of the American Chemical Society (2003), 125(43), 13094-13105. Language: English, Database: CAPLUS

Incorporation studies with ¹³C-, ¹⁵N-, and ²H-labeled substrates, followed by NMR anal., show that the pyrimidine unit of thiamin (vitamin B1) originates from a C5N fragment, derived from C-2',2,N,C-6,5,5' of pyridoxol (vitamin B6) and an N-C-N fragment derived from L-histidine. Urocanic acid serves as an intermediate on the route of the N-C-N fragment of histidine into the thiamin pyrimidine.

[Substances](#) [Reactions](#) [Citing](#) [Full Text](#) [Link](#) [0 Comments](#) [0 Tags](#)

Click on Full Text to view the article.



SciFinder Web

2. How to Search SciFinder c. By Topic

Enter terms in search box
on the default window
showing "Explore
References" with
"Research Topic"
highlighted.

SciFinder®

Welcome Regina Bendig | Sign Out

Explore References

Research Topic

Author Name

Company Name

Document Identifier

Journal

Patent

Tags

Examples:
The effect
Photocyan



SciFinder Web


2. How to Search SciFinder c. By Topic (cont'd)

Enter your topic in the search box.

If appropriate, use preposition, conjunction, etc., to express relationships. Words spelled differently or variations of words (e.g., design, designs, designed, etc.) will be checked automatically.

Synonyms should be entered in parentheses, separated by commas. Up to three synonyms can be searched.

Click on Search.

Research Topic 

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



SciFinder Web

2. How to Search SciFinder c. By Topic (cont'd)

11 Topics 3 Selected

Select All Deselect All

	Research Topic Candidates	References
<input checked="" type="checkbox"/>	1 reference was found containing all of the concepts "use", "surfactants" and "designing zeolites" closely associated with one another.	1
<input checked="" type="checkbox"/>	9 references were found where all of the concepts "use", "surfactants" and "designing zeolites" were present anywhere in the reference.	9
<input checked="" type="checkbox"/>	84002 references were found containing the two concepts "use" and "surfactants" closely associated with one another.	84002
<input type="checkbox"/>	192903 references were found where the two concepts "use" and "surfactants" were present anywhere in the reference.	192903
<input type="checkbox"/>	181 references were found containing the two concepts "use" and "designing zeolites" closely associated with one another.	181
<input type="checkbox"/>	308 references were found where the two concepts "use" and "designing zeolites" were present anywhere in the reference.	308

Records are displayed in order of closeness of terms searched.

Select references by clicking on the box next to the results.

Click on Get References

Get References



SciFinder Web

2. How to Search SciFinder c. By Topic (cont'd)

Total number of records
is displayed at the top.

Click on Full-Text link to
view article.

KEEP ME POSTED Research Topic "use of surfactants in designin..." references (9)

References Get Substances Get Reactions Get Cited Get Citing

9 References 0 Selected Keep Selected Remove Selected

Select All Deselect All

1. Recent studies on the preparation, activation and design of active phases and supports of hydrotreating catalysts

By Breyse, Michele; Geantet, Christophe; Afanasiev, Pavel; Blanchard, Juliette; Vrinat, Michel
From Catalysis Today (2008), 130(1), 3-13. English CAPLUS

A review. Com. hydrotreating catalysts are usually composed of a sulfide active phase, molybdenum or tungsten sulfide promoted by cobalt or nickel, supported on alumina. Due to very stringent environmental regulations, the research effort to enhance the properties of these catalysts is still very important. The present article summarizes studies carried out recently by French scientists in three directions, the improvement of the prepn. and activation methods of molybdenum or tungsten sulfide based catalysts, the search for new active phases based on solid state chem. concept or bifunctiona...

+ Substances Reactions Citing Full Text



SciFinder Web

2. How to Search SciFinder c. By Topic (cont'd)

Click on the Full Text.

KEEP ME POSTED Research Topic "use of surfactants in designin..." > references (9)

References Get Substances Get Reactions Get Cited Get Citing

9 References 0 Selected Keep Selected Remove Selected

Select All Deselect All

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Substances Reactions Citing Full Text



SciFinder Web

3. How to Obtain Retrieved Information a. Elements of a bibliographic citation

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[+](#) Substances [▲](#) Reactions [📄](#) Citing [□](#) Full Text

Names of authors who wrote the article. Last name first, followed by first name and/or initial; different authors' names are separated by a semicolon.



SciFinder Web

3. How to Obtain Retrieved Information

a. Elements of a bibliographic citation (cont'd)

1. Recent studies on the preparation, activation and design of active phases and supports of hydrotreating catalysts

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[+](#) Substances [▲](#) Reactions [📄](#) Citing [📄](#) Full Text

The title of the journal in which the article appeared: "Catalysis Today"



SciFinder Web

3. How to Obtain Retrieved Information

a. Elements of a bibliographic citation (cont'd)

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✚ Substances 🏠 Reactions 📄 Citing 📄 Full Text

Year of the journal (publication year)



SciFinder Web

3. How to Obtain Retrieved Information

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[+](#) Substances [▲](#) Reactions [f](#) Citing [□](#) Full Text

Volume number, followed by issue number



SciFinder Web

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✚ Substances 🗑 Reactions 📄 Citing 📄 Full Text

Pages of the article

Language



SciFinder Web

3. How to Obtain Retrieved Information

b. Obtaining Articles

If an article is not available electronically, check the Library's online catalogue to see if the journal is available in print. Remember to search by the title of the journal, name of conference, etc., and not by the title of the article.

If the journal is not available from the Library, you can order a copy of the article through interlibrary loan:

RACER <http://library.mcmaster.ca/racer.htm>

You will receive an e-mail when the article has arrived. There is no cost to request a photocopy of a journal article.

This concludes the tutorial.