SciFinder Start-up Guidance

Hokkaido University
Northern Campus Library
October 2019

SciFinder Start-up Guidance

SciFinder

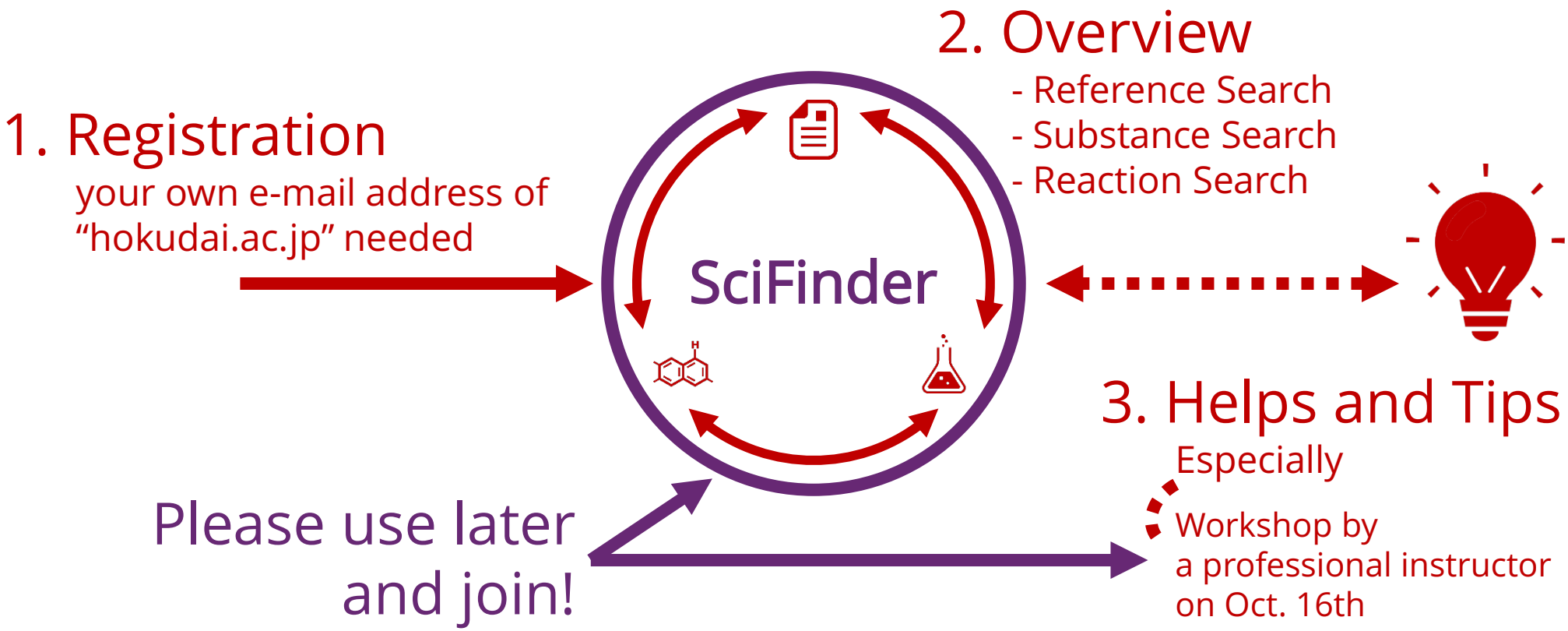
- an online database provided by
  CAS (Chemical Abstract Service),
  a division of ACS (American Chemical Society)

- provides information of
  References (papers, conference papers, patents ...)
  Substances (containing all CAS Registry Number)
  Reactions ...

- requires one account per person

SciFinder Start-up Guidance

From the perspective of a non-chemist



1. Registration

https://www.lib.hokudai.ac.jp

1. Registration

SciFinder Navi

[化学]論文情報, 引用文献

同時接続可能数:無制限		化学

CAS Information Use Policies ・CAS情報利用規約（日本語・PDF）

CAS(Chemical Abstracts Service)が提供する化学を中心とする科学情報へアクセスできるデータベース。
文献情報を収録したCAplus ファイルのほか，化学物質情報・有機化学反応情報・市販化学品情報・化学物質規制情報・
学文献情報（MEDLINE）を提供しています。

※SciFinder とは

SciFinderのデータベース

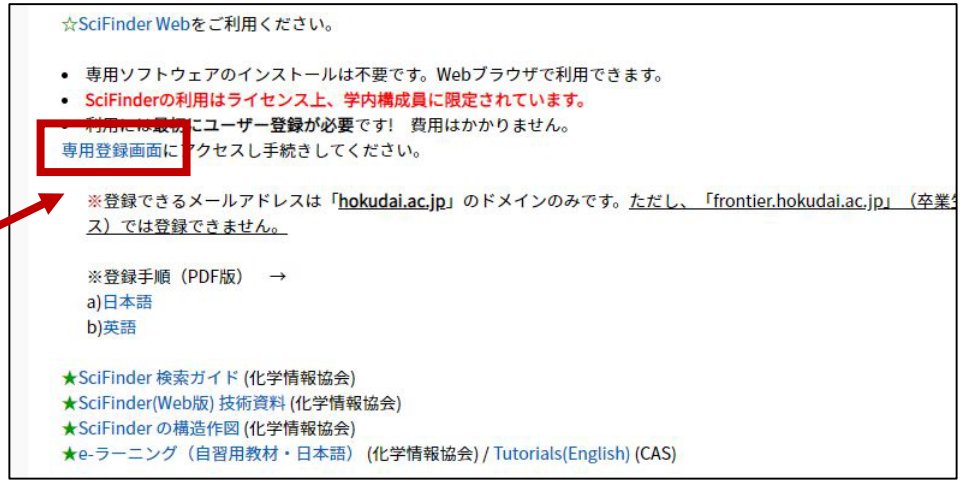
- 文献情報 : CAplus ファイル (1808年～)
- 化学物質情報 : REGISTRY ファイル（1907年～)
- 有機化学反応情報 : CASREACT ファイル (1840年～)
- 市販化学品カタログ情報 : CHEMCATS ファイル (1995年～)
- 化学物質規制情報 : CHEMLIST ファイル (1979年～)
- 医学文献情報 : MEDLINE ファイル (1946年～)

（リンク先は化学情報協会(JAICI:CAS日本総代理店)の各データベース説明ページです）

※利用には最初にユーザー登録が必要です。

その他、SciFinder Web利用に際してのシステム要件、よくある質問・トラブル等についてはSciFinderについてをご覧
e-ラーニング (自習用教材)
SciFinder 新機能「PatentPak」を5回までお試しいただけます

【辞書機能】JAICI Science Dictionaryは、化学や医学・薬学を中心とした科学技術関係の国内外の論文及び特許情報か
SciFinder検索時の利便性を向上する日英/英日の対訳辞書とシソーラスです。北大はSciFinder契約機関のため、無料で



☆SciFinder Webをご利用ください。

- 専用ソフトウェアのインストールは不要です。Webブラウザで利用できます。
- SciFinderの利用はライセンス上、学内構成員に限定されています。
- 利用には最初にユーザー登録が必要です！　費用はかかりません。

専用登録画面にアクセスし手続きしてください。

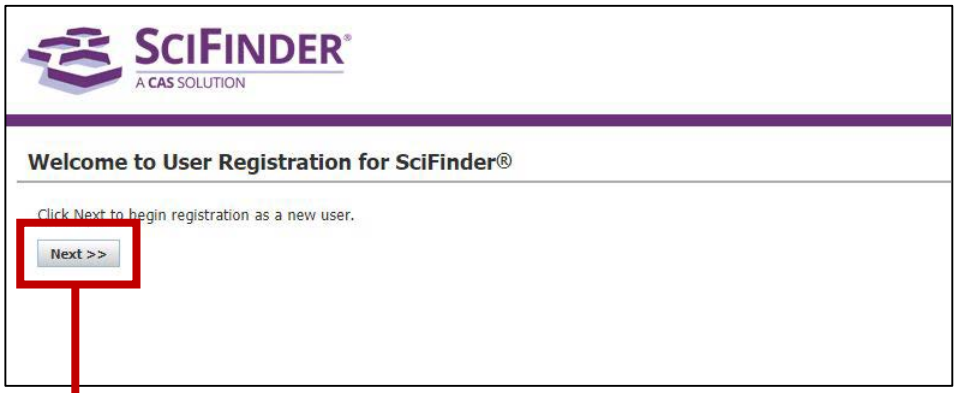
※登録できるメールアドレスは「hokudai.ac.jp」のドメインのみです。ただし、「frontier.hokudai.ac.jp」（卒業
ス）では登録できません。

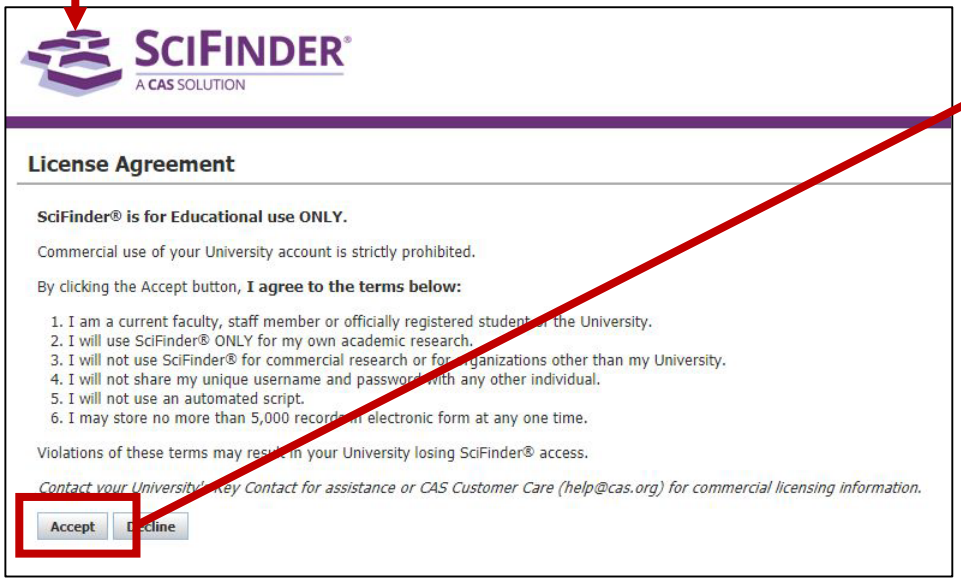
※登録手順（PDF版）　→
a)日本語
b)英語

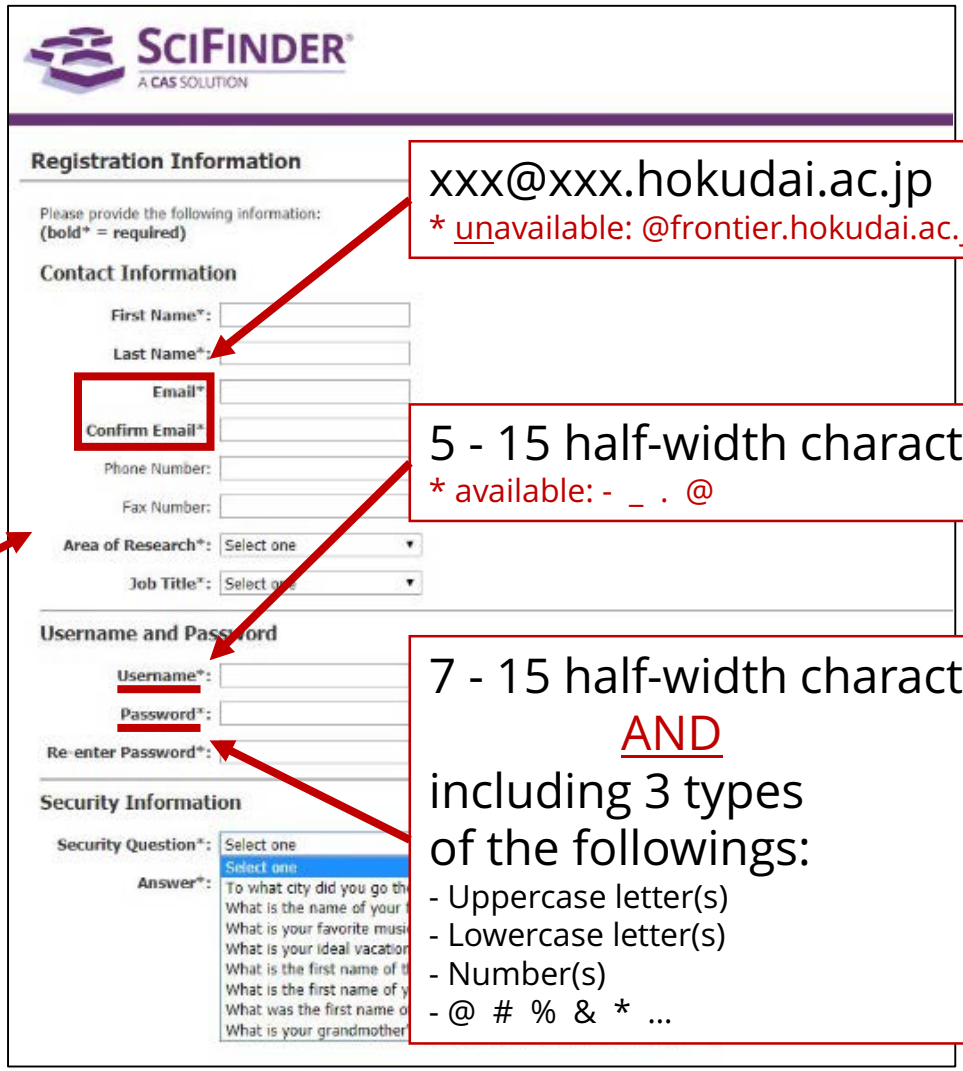
★SciFinder 検索ガイド (化学情報協会)
★SciFinder(Web版) 技術資料 (化学情報協会)
★SciFinder の構造作図 (化学情報協会)
★e-ラーニング（自習用教材・日本語） (化学情報協会) / Tutorials(English) (CAS)

… or access →

1. Registration







xxx@xxx.hokudai.ac.jp
* unavailable: @frontier.hokudai.ac.jp

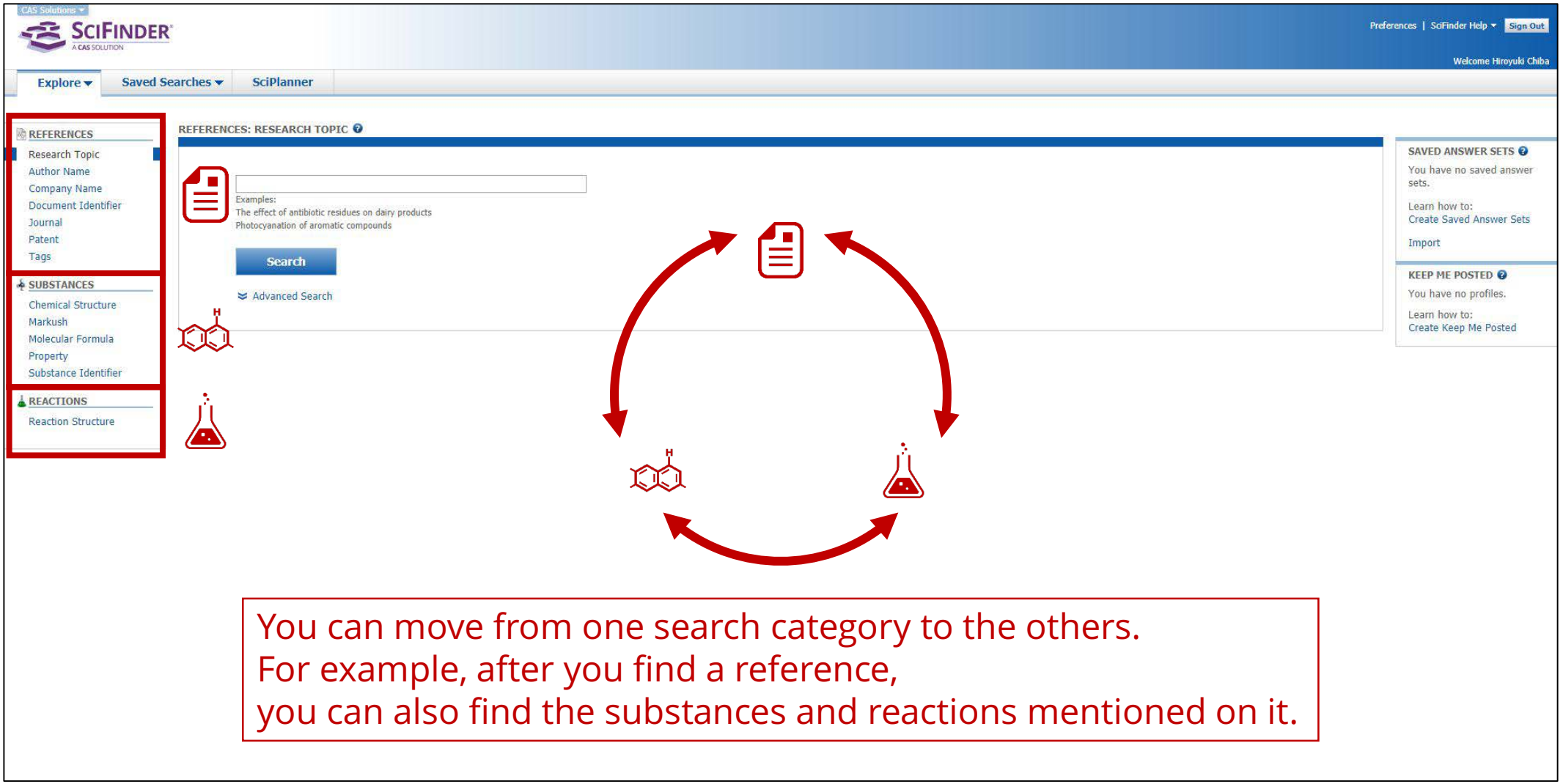
5 - 15 half-width characters
* available: - _ . @

7 - 15 half-width characters
AND
including 3 types
of the followings:
- Uppercase letter(s)
- Lowercase letter(s)
- Number(s)
- @ # % & * ...

1. Registration

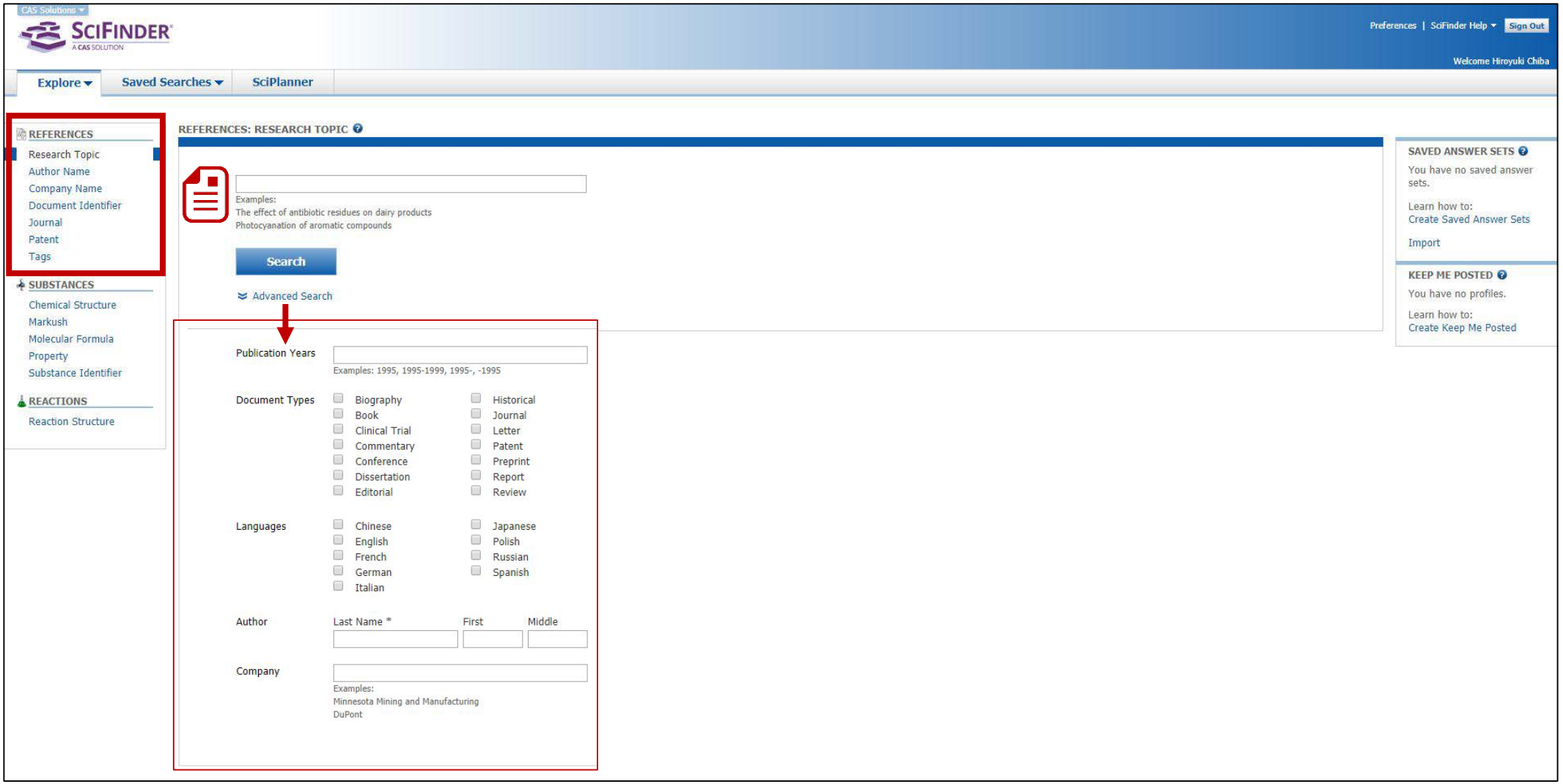
After clicking the link in the e-mail from CAS, access http://scifinder.cas.org

2. Overview

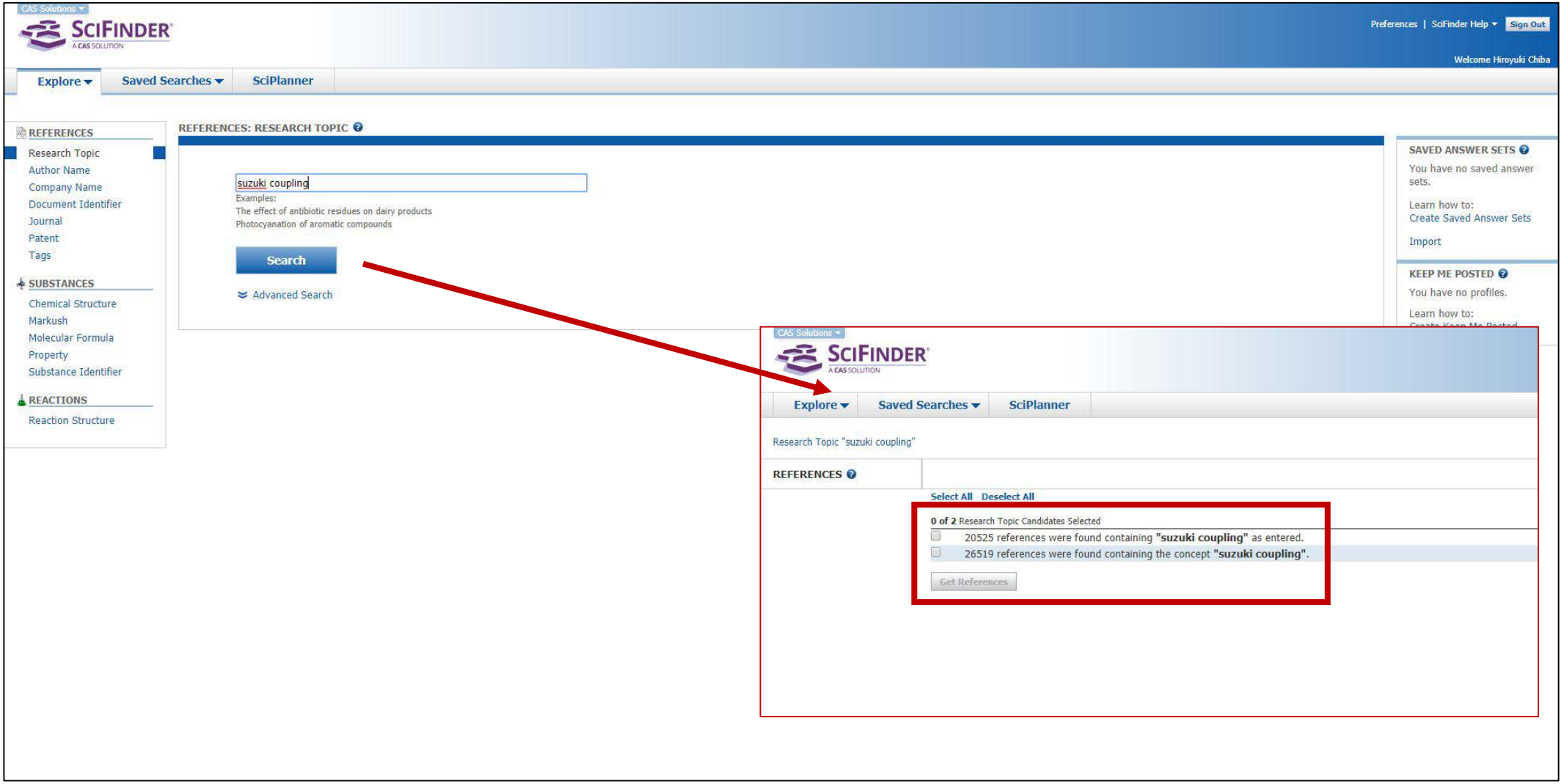


You can move from one search category to the others.
For example, after you find a reference,
you can also find the substances and reactions mentioned on it.

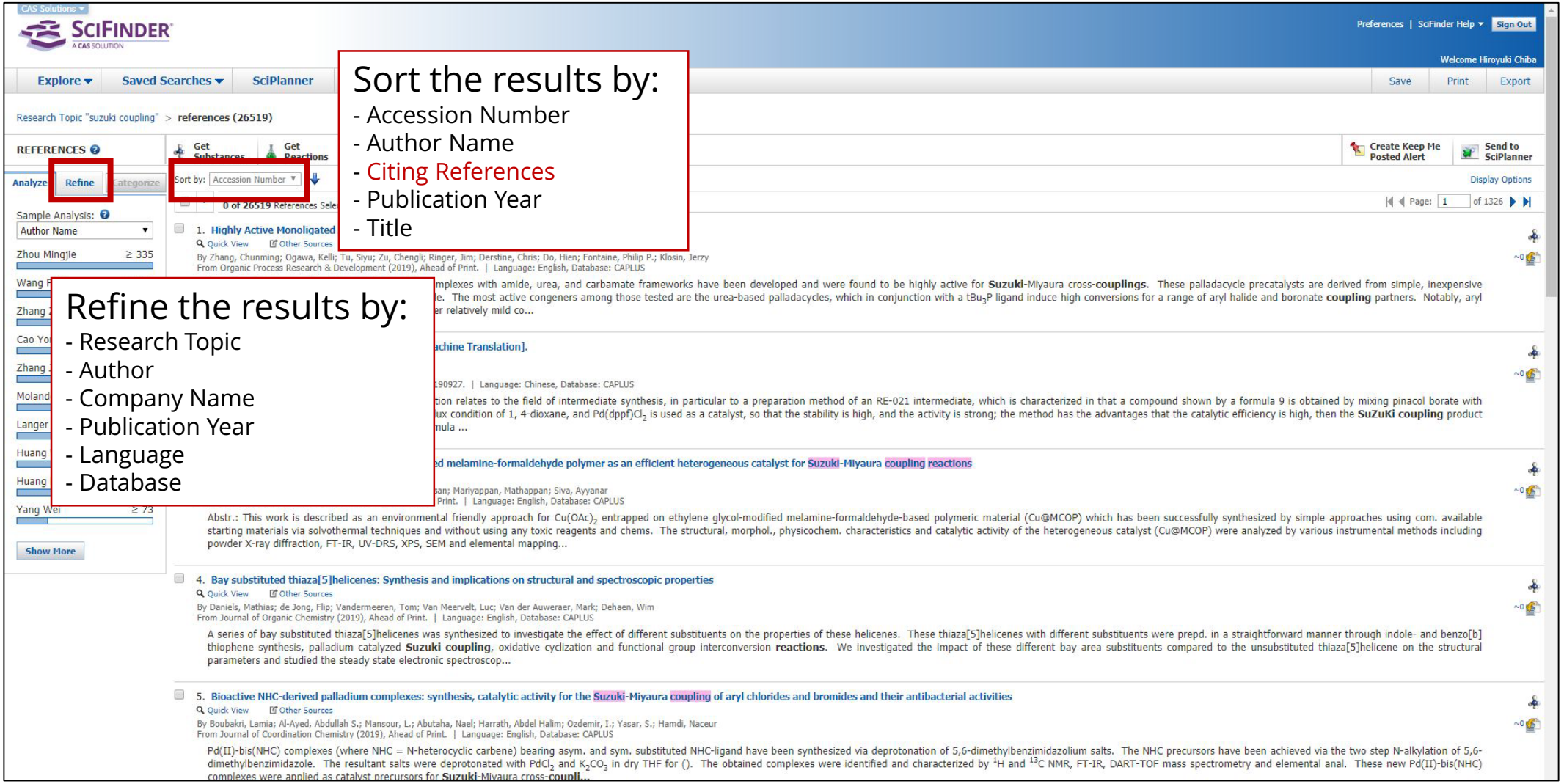
2. Overview


CAS Solutions
SciFinder
A CAS SOLUTION
Preferences | SciFinder Help | Sign Out
Welcome Hiroyuki Chiba
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
REFERENCES: RESEARCH TOPIC
Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds
Search
Advanced Search
Publication Years
Examples: 1995, 1995-1999, 1995-, -1995
Document Types
Biography
Book
Clinical Trial
Commentary
Conference
Dissertation
Editorial
Historical
Journal
Letter
Patent
Preprint
Report
Review
Languages
Chinese
English
French
German
Italian
Japanese
Polish
Russian
Spanish
Author
Last Name *
First
Middle
Company
Examples:
Minnesota Mining and Manufacturing
DuPont
SAVED ANSWER SETS
You have no saved answer sets.
Learn how to:
Create Saved Answer Sets
Import
KEEP ME POSTED
You have no profiles.
Learn how to:
Create Keep Me Posted

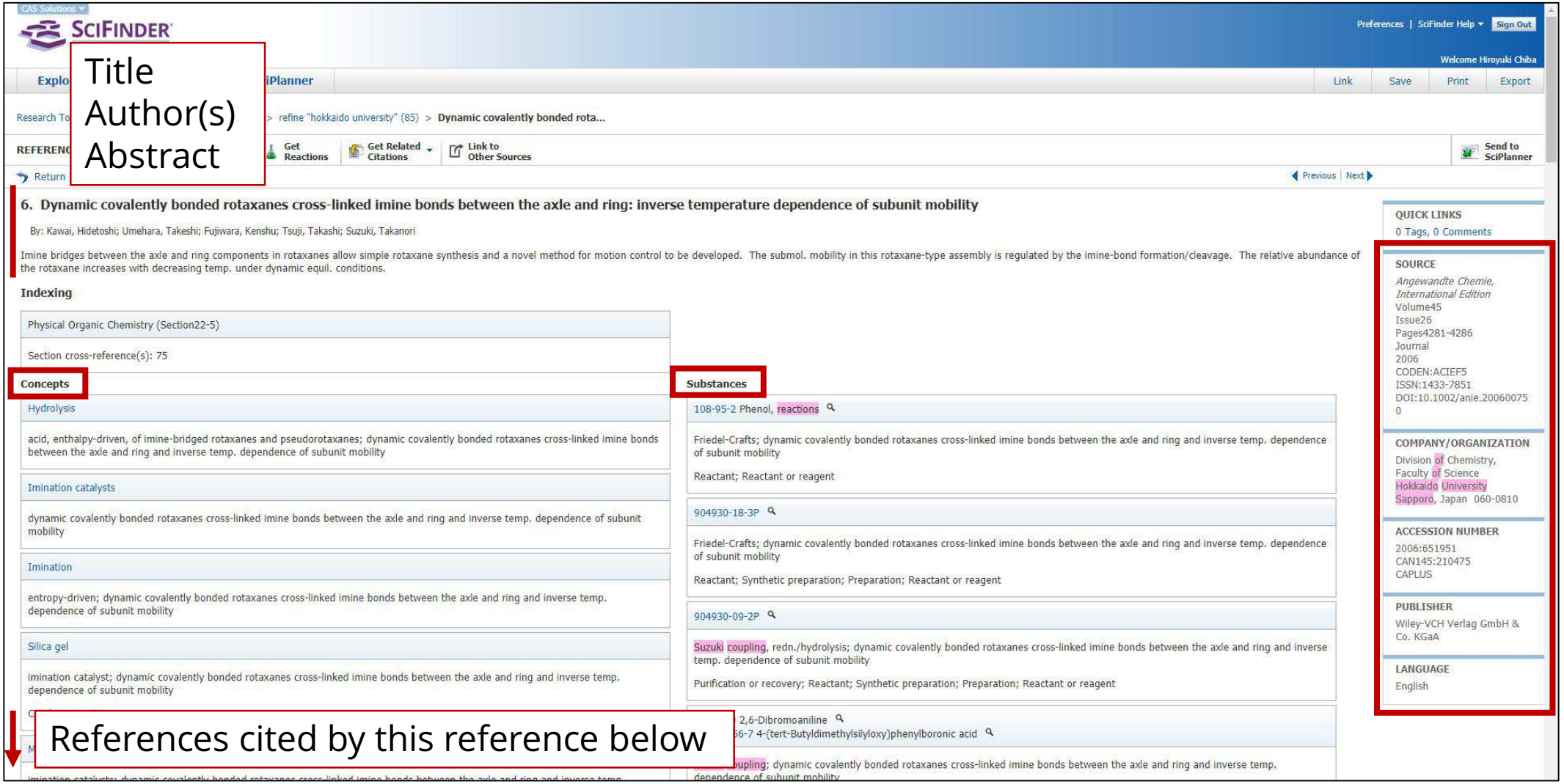
2. Overview


CAS Solutions
SciFinder
A CAS SOLUTION
Preferences | SciFinder Help
Sign Out
Welcome Hiroyuki Chiba
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
REFERENCES: RESEARCH TOPIC
suzuki coupling
Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds
Search
Advanced Search
SAVED ANSWER SETS
You have no saved answer sets.
Learn how to:
Create Saved Answer Sets
Import
KEEP ME POSTED
You have no profiles.
Learn how to:
Research Topic "suzuki coupling"
REFERENCES
Select All
Deselect All
0 of 2 Research Topic Candidates Selected
20525 references were found containing "suzuki coupling" as entered.
26519 references were found containing the concept "suzuki coupling".
Get References

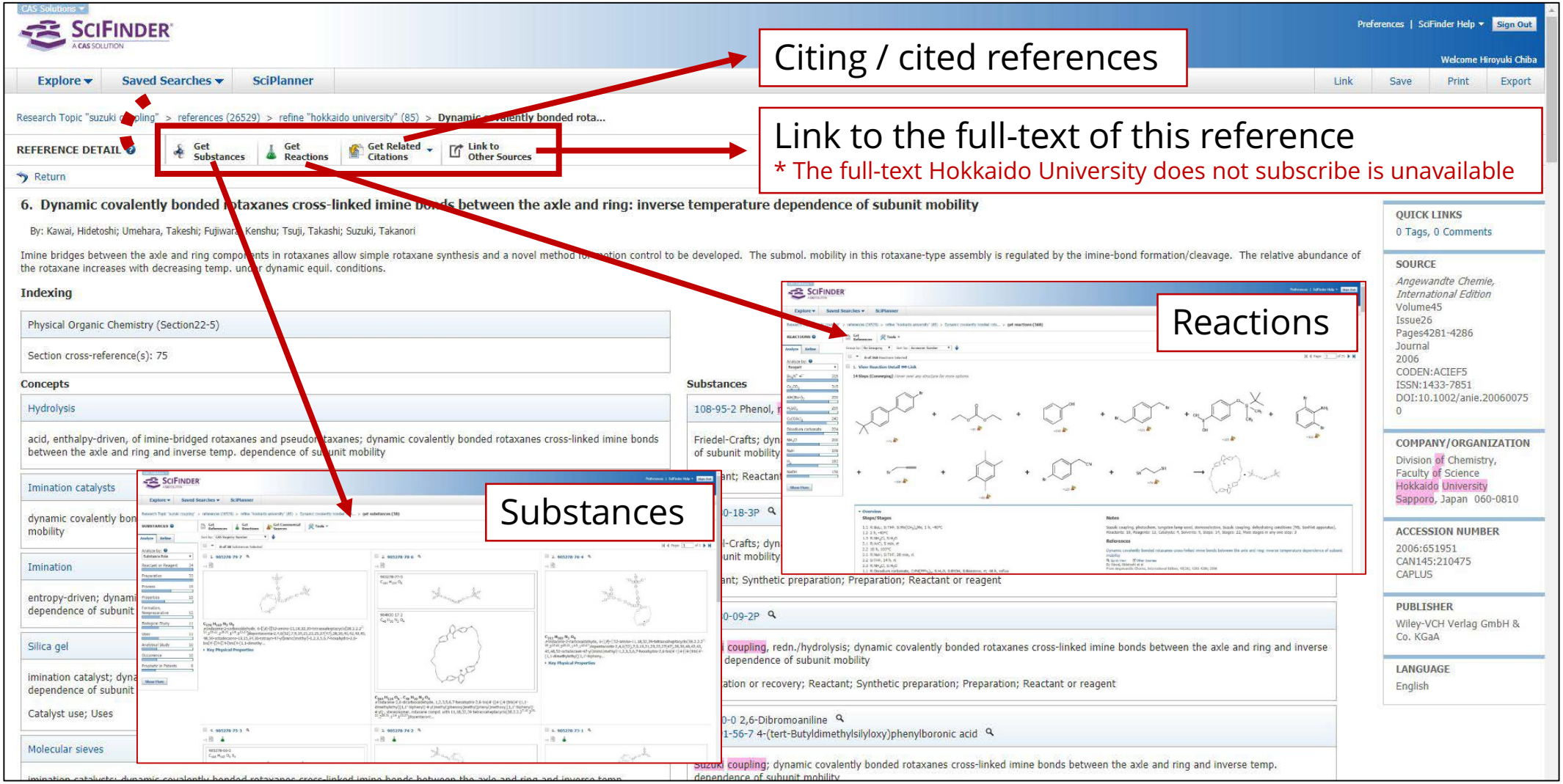
2. Overview


Sort the results by:
- Accession Number
- Author Name
- Citing References
- Publication Year
- Title
Refine the results by:
- Research Topic
- Author
- Company Name
- Publication Year
- Language
- Database
SciFinder
Explore
Saved Searches
SciPlanner
Save
Print
Export
Research Topic "suzuki coupling" > references (26519)
REFERENCES
Analyze
Refine
Categorize
Sort by: Accession Number
Create Keep Me Posted Alert
Send to SciPlanner
Display Options
Show More

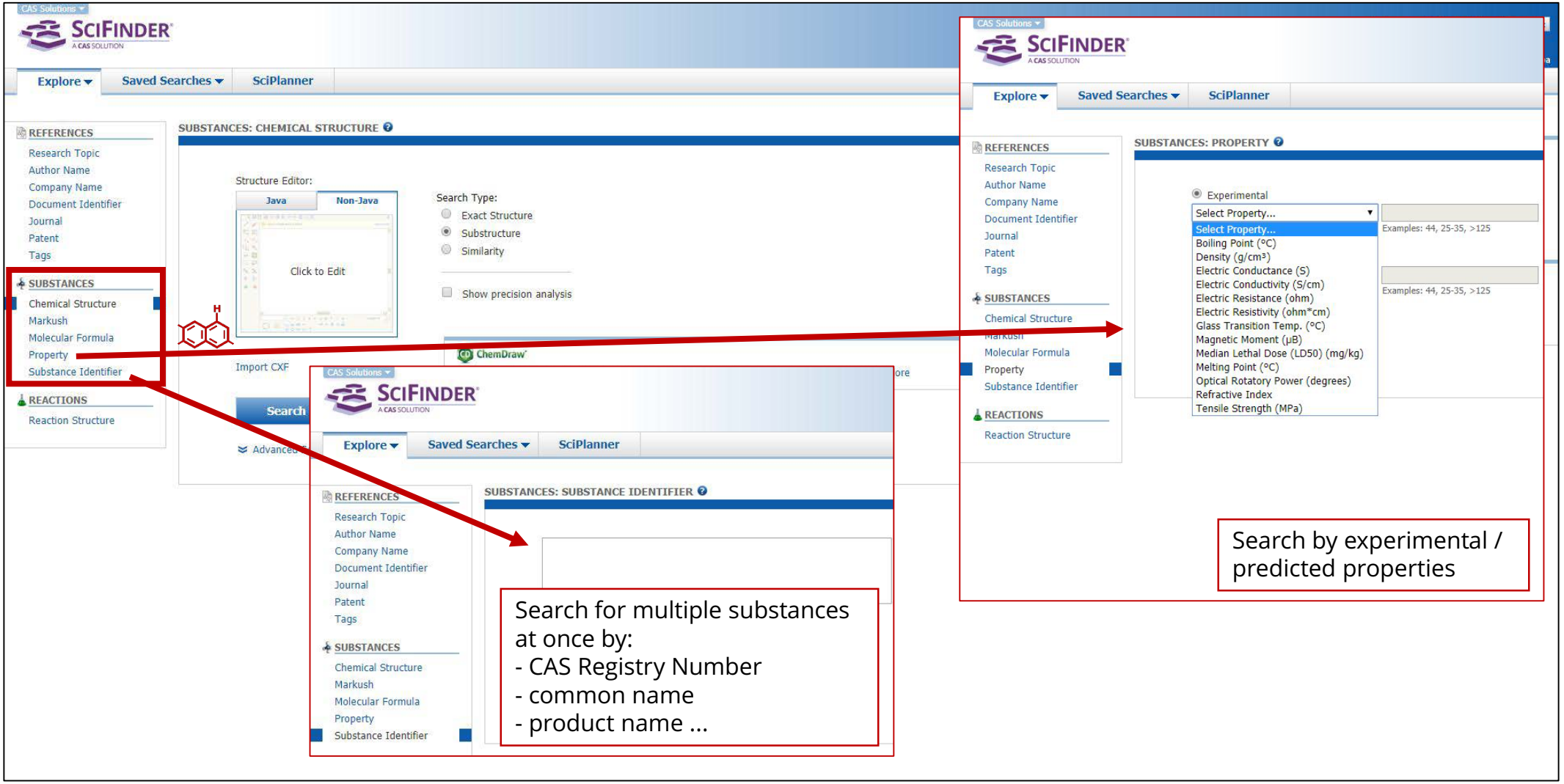
2. Overview


Title
Author(s)
Abstract
References cited by this reference below
SciFinder
Preferences | SciFinder Help | Sign Out
Welcome Hiroyuki Chiba
Link
Save
Print
Export
refine "hokkaido university" (85) > Dynamic covalently bonded rota...
Get Reactions
Get Related Citations
Link to Other Sources
Send to SciPlanner
Return
Previous | Next
6. Dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring: inverse temperature dependence of subunit mobility
By: Kawai, Hidetoshi; Umehara, Takeshi; Fujiwara, Kenshu; Tsuji, Takashi; Suzuki, Takanori
Imine bridges between the axle and ring components in rotaxanes allow simple rotaxane synthesis and a novel method for motion control to be developed. The submol. mobility in this rotaxane-type assembly is regulated by the imine-bond formation/cleavage. The relative abundance of the rotaxane increases with decreasing temp. under dynamic equil. conditions.
Indexing
Physical Organic Chemistry (Section22-5)
Section cross-reference(s): 75
Concepts
Hydrolysis
acid, enthalpy-driven, of imine-bridged rotaxanes and pseudorotaxanes; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Imination catalysts
dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Imination
entropy-driven; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Silica gel
imination catalyst; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Substances
108-95-2 Phenol, reactions
Friedel-Crafts; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Reactant; Reactant or reagent
904930-18-3P
Friedel-Crafts; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Reactant; Synthetic preparation; Preparation; Reactant or reagent
904930-09-2P
Suzuki coupling, redn./hydrolysis; dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring and inverse temp. dependence of subunit mobility
Purification or recovery; Reactant; Synthetic preparation; Preparation; Reactant or reagent
2,6-Dibromoaniline
4-(tert-Butyldimethylsilyloxy)phenylboronic acid
QUICK LINKS
0 Tags, 0 Comments
SOURCE
Angewandte Chemie, International Edition
Volume45
Issue26
Pages4281-4286
Journal
2006
CODEN:ACIEF5
ISSN:1433-7851
DOI:10.1002/anie.20060075
0
COMPANY/ORGANIZATION
Division of Chemistry, Faculty of Science
Hokkaido University
Sapporo, Japan 060-0810
ACCESSION NUMBER
2006:651951
CAN145:210475
CAPLUS
PUBLISHER
Wiley-VCH Verlag GmbH & Co. KGaA
LANGUAGE
English

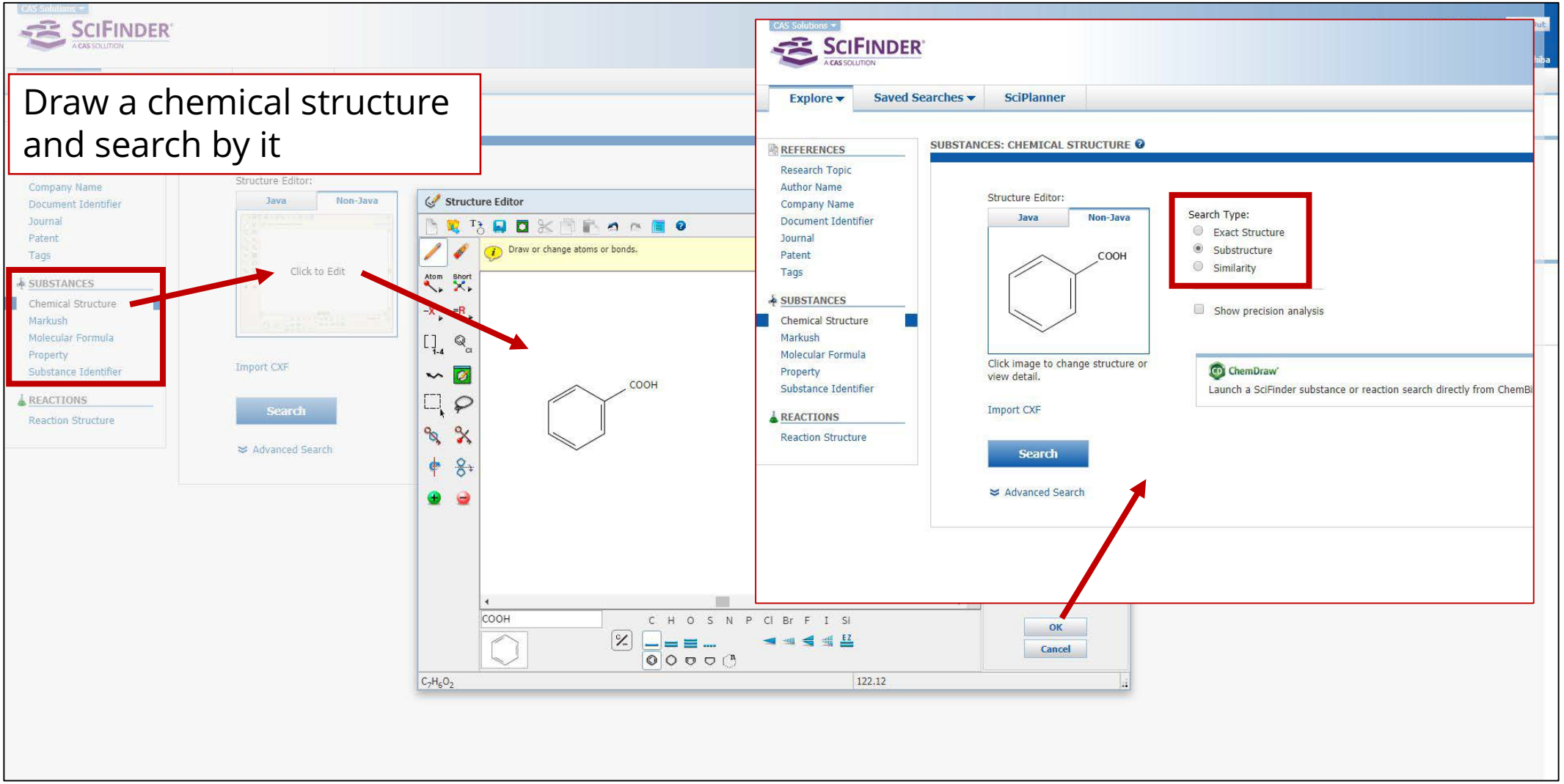
2. Overview


Citing / cited references
Link to the full-text of this reference
* The full-text Hokkaido University does not subscribe is unavailable
Reactions
Substances
SciFinder
Explore
Saved Searches
SciPlanner
Get Substances
Get Reactions
Get Related Citations
Link to Other Sources
Return
REFERENCE DETAIL
6. Dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring: inverse temperature dependence of subunit mobility
By: Kawai, Hidetoshi; Umehara, Takeshi; Fujiwara, Kenshu; Tsuji, Takashi; Suzuki, Takanori
Indexing
Physical Organic Chemistry (Section22-5)
Section cross-reference(s): 75
Concepts
Hydrolysis
Imination catalysts
Imination
Silica gel
Molecular sieves
Substances
QUICK LINKS
0 Tags, 0 Comments
SOURCE
Angewandte Chemie, International Edition
Volume45
Issue26
Pages4281-4286
Journal
2006
CODEN:ACIEF5
ISSN:1433-7851
DOI:10.1002/anie.20060075
0
COMPANY/ORGANIZATION
Division of Chemistry, Faculty of Science
Hokkaido University
Sapporo, Japan 060-0810
ACCESSION NUMBER
2006:651951
CAN145:210475
CAPLUS
PUBLISHER
Wiley-VCH Verlag GmbH & Co. KGaA
LANGUAGE
English

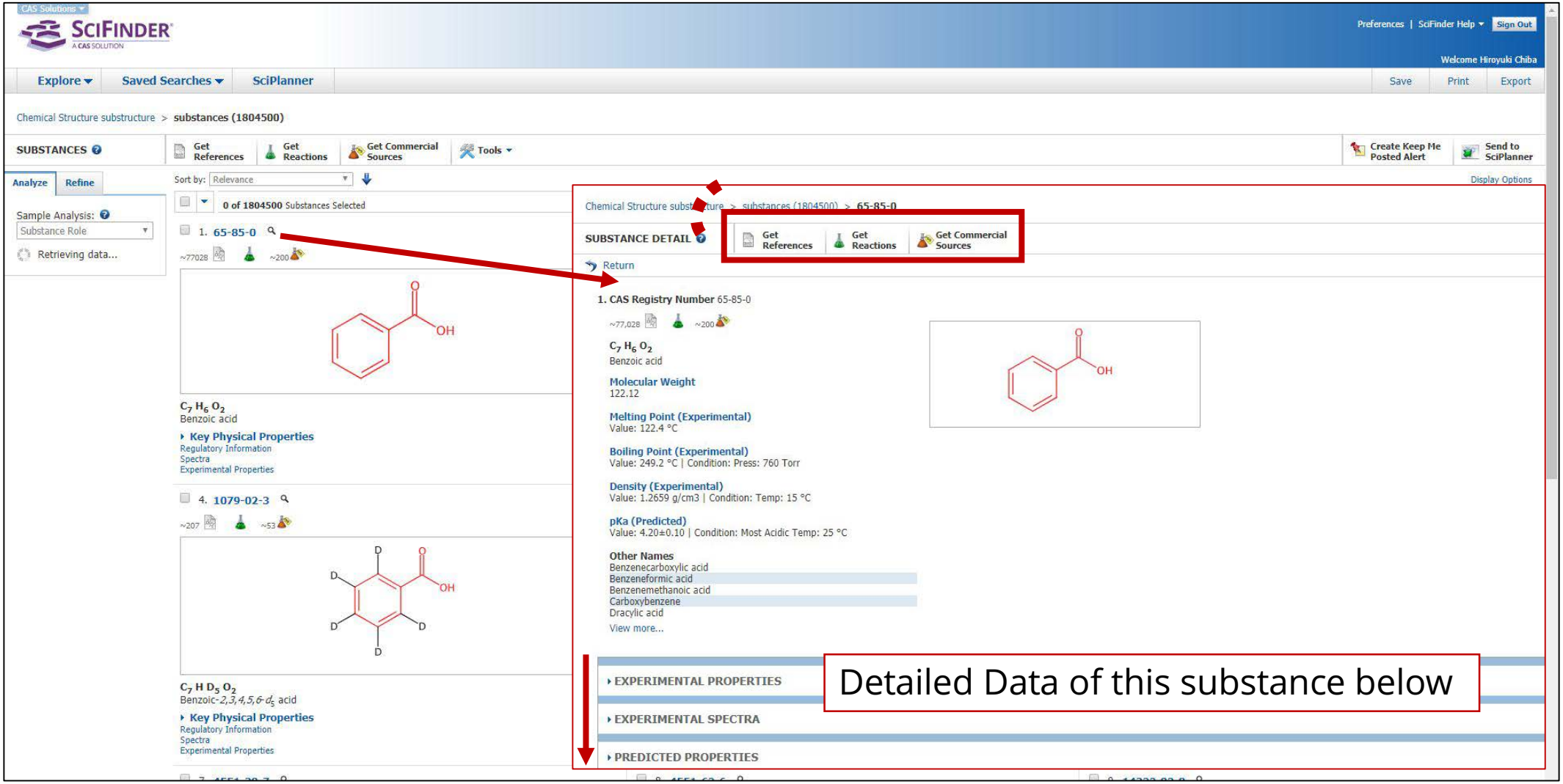
2. Overview


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
SUBSTANCES: CHEMICAL STRUCTURE
Structure Editor:
Java
Non-Java
Click to Edit
Search Type:
Exact Structure
Substructure
Similarity
Show precision analysis
Import CXF
Search
SUBSTANCES: PROPERTY
Experimental
Select Property...
Boiling Point (°C)
Density (g/cm³)
Electric Conductance (S)
Electric Conductivity (S/cm)
Electric Resistance (ohm)
Electric Resistivity (ohm*cm)
Glass Transition Temp. (°C)
Magnetic Moment (μB)
Median Lethal Dose (LD50) (mg/kg)
Melting Point (°C)
Optical Rotatory Power (degrees)
Refractive Index
Tensile Strength (MPa)
Examples: 44, 25-35, >125
SUBSTANCES: SUBSTANCE IDENTIFIER
Search by experimental / predicted properties
Search for multiple substances at once by:
- CAS Registry Number
- common name
- product name ...

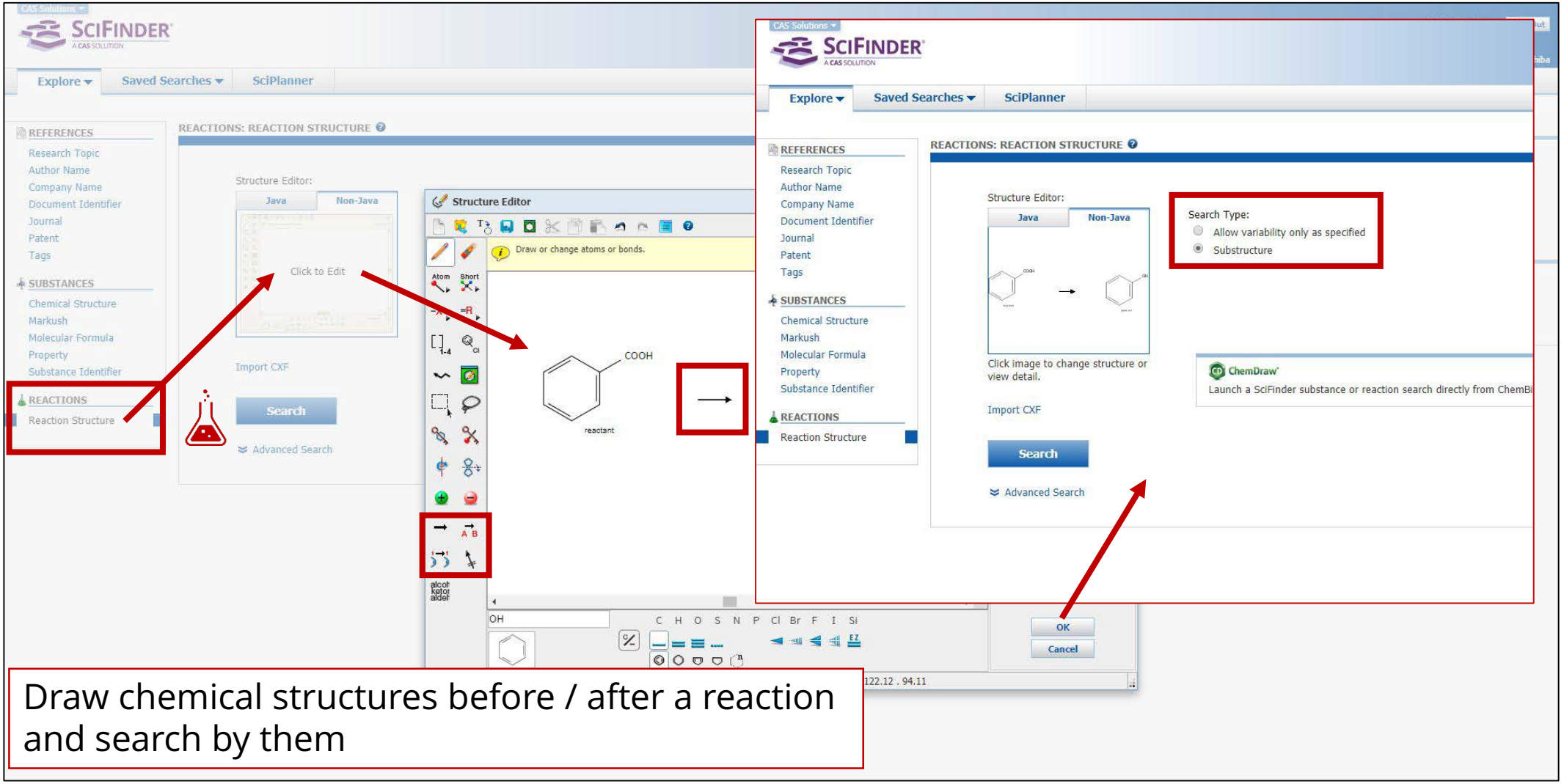
2. Overview


Draw a chemical structure and search by it
SCIFINDER
A CAS SOLUTION
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
SUBSTANCES: CHEMICAL STRUCTURE
Structure Editor:
Java
Non-Java
COOH
Search Type:
Exact Structure
Substructure
Similarity
Show precision analysis
Click image to change structure or view detail.
Import CXF
Search
Advanced Search
ChemDraw
Launch a SciFinder substance or reaction search directly from ChemBi
Structure Editor
Draw or change atoms or bonds.
Click to Edit
OK
Cancel
122.12

2. Overview

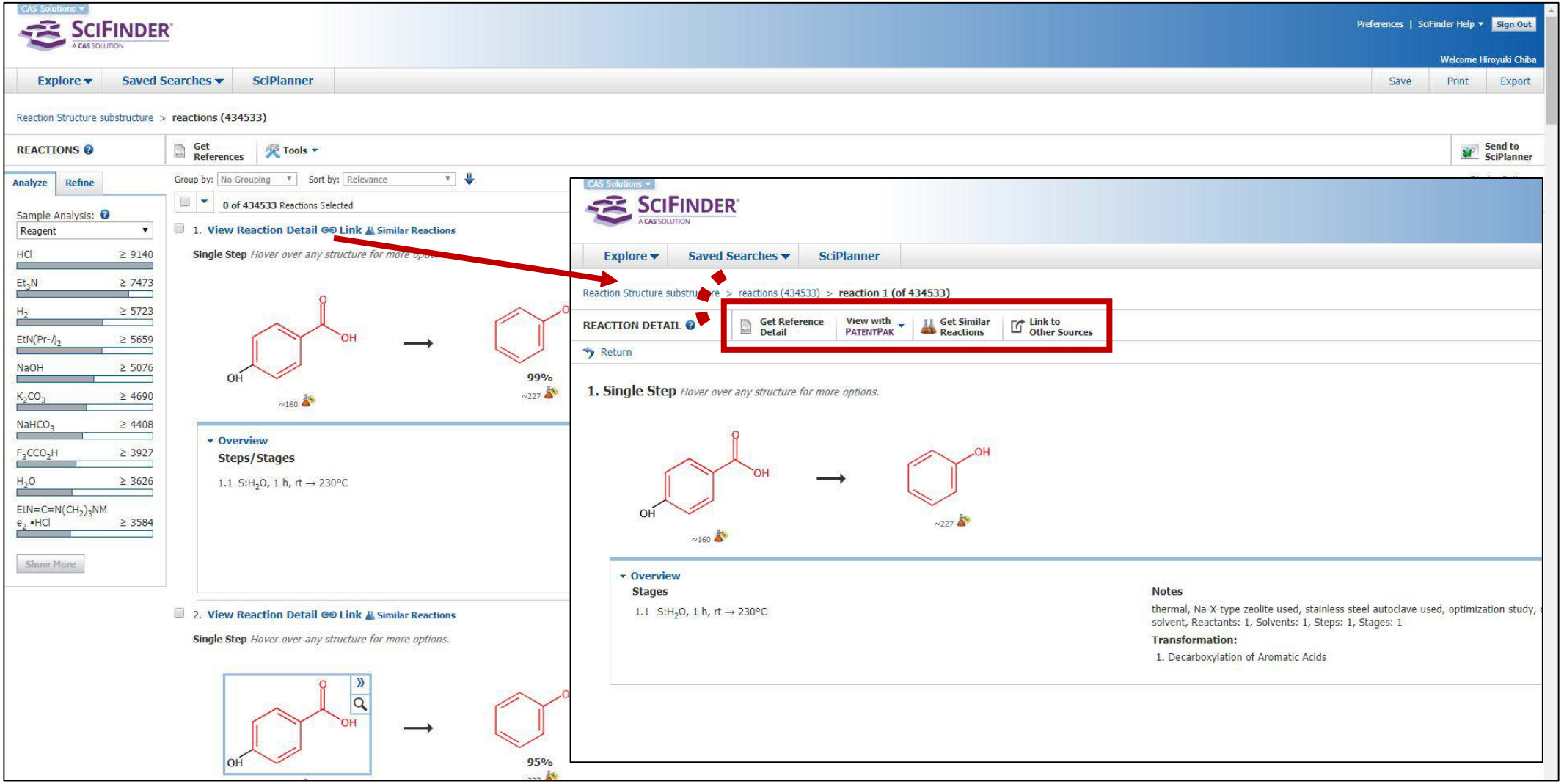

SciFinder
Explore
Saved Searches
SciPlanner
Save
Print
Export
Chemical Structure substructure > substances (1804500)
SUBSTANCES
Get References
Get Reactions
Get Commercial Sources
Tools
Create Keep Me Posted Alert
Send to SciPlanner
Analyze
Refine
Sample Analysis:
Substance Role
Retrieving data...
Sort by: Relevance
Display Options
0 of 1804500 Substances Selected
1. 65-85-0
C7 H6 O2
Benzoic acid
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
4. 1079-02-3
C7 H D5 O2
Benzoic-2,3,4,5,6-d5 acid
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
SUBSTANCE DETAIL
Return
1. CAS Registry Number 65-85-0
C7 H6 O2
Benzoic acid
Molecular Weight
122.12
Melting Point (Experimental)
Value: 122.4 °C
Boiling Point (Experimental)
Value: 249.2 °C | Condition: Press: 760 Torr
Density (Experimental)
Value: 1.2659 g/cm3 | Condition: Temp: 15 °C
pKa (Predicted)
Value: 4.20±0.10 | Condition: Most Acidic Temp: 25 °C
Other Names
Benzenecarboxylic acid
Benzeneformic acid
Benzenemethanoic acid
Carboxybenzene
Dracylic acid
View more...
EXPERIMENTAL PROPERTIES
EXPERIMENTAL SPECTRA
PREDICTED PROPERTIES
Detailed Data of this substance below

2. Overview



Draw chemical structures before / after a reaction and search by them

2. Overview


SciFinder
Explore
Saved Searches
SciPlanner
Save
Print
Export
Reaction Structure substructure > reactions (434533)
REACTIONS
Get References
Tools
Send to SciPlanner
Analyze
Refine
Sample Analysis:
Reagent
HCl ≥ 9140
Et3N ≥ 7473
H2 ≥ 5723
EtN(Pr-i)2 ≥ 5659
NaOH ≥ 5076
K2CO3 ≥ 4690
NaHCO3 ≥ 4408
F3CCO2H ≥ 3927
H2O ≥ 3626
EtN=C=N(CH2)3NMe2 •HCl ≥ 3584
Show More
Group by: No Grouping
Sort by: Relevance
0 of 434533 Reactions Selected
1. View Reaction Detail Link Similar Reactions
Single Step Hover over any structure for more options.
99%
Overview
Steps/Stages
1.1 S:H2O, 1 h, rt → 230°C
2. View Reaction Detail Link Similar Reactions
Single Step Hover over any structure for more options.
95%
Reaction Structure substructure > reactions (434533) > reaction 1 (of 434533)
REACTION DETAIL
Get Reference Detail
View with PATENTPAK
Get Similar Reactions
Link to Other Sources
Return
1. Single Step Hover over any structure for more options.
Overview
Stages
1.1 S:H2O, 1 h, rt → 230°C
Notes
thermal, Na-X-type zeolite used, stainless steel autoclave used, optimization study, solvent, Reactants: 1, Solvents: 1, Steps: 1, Stages: 1
Transformation:
1. Decarboxylation of Aromatic Acids

3. Helps and Tips

E-learning

Search Guides

Helpdesk

Dictionary

Using off-campus

- Remote Access
- SciFinder Mobile

Workshop

https://www.jaici.or.jp/SCIFINDER/elearning/index.html

3. Helps and Tips

E-learning

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Workshop

https://www.jaici.or.jp/SCIFINDER/sci_tecdata.html

3. Helps and Tips

E-learning

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Using off-campus

- Remote Access

- SciFinder Mobile

Workshop

https://www.jaici.or.jp/helpdesk/index.htm

3. Helps and Tips

E-learning
Search Guides
Helpdesk
Dictionary
Using off-campus
- Remote Access
- SciFinder Mobile
Workshop

https://www.jaici.or.jp/jsd

3. Helps and Tips

E-learning

Search Guides

Helpdesk

Dictionary

Using off-campus

- Remote Access

- SciFinder Mobile

Workshop

3. Helps and Tips

E-learning

Search Guides

Helpdesk

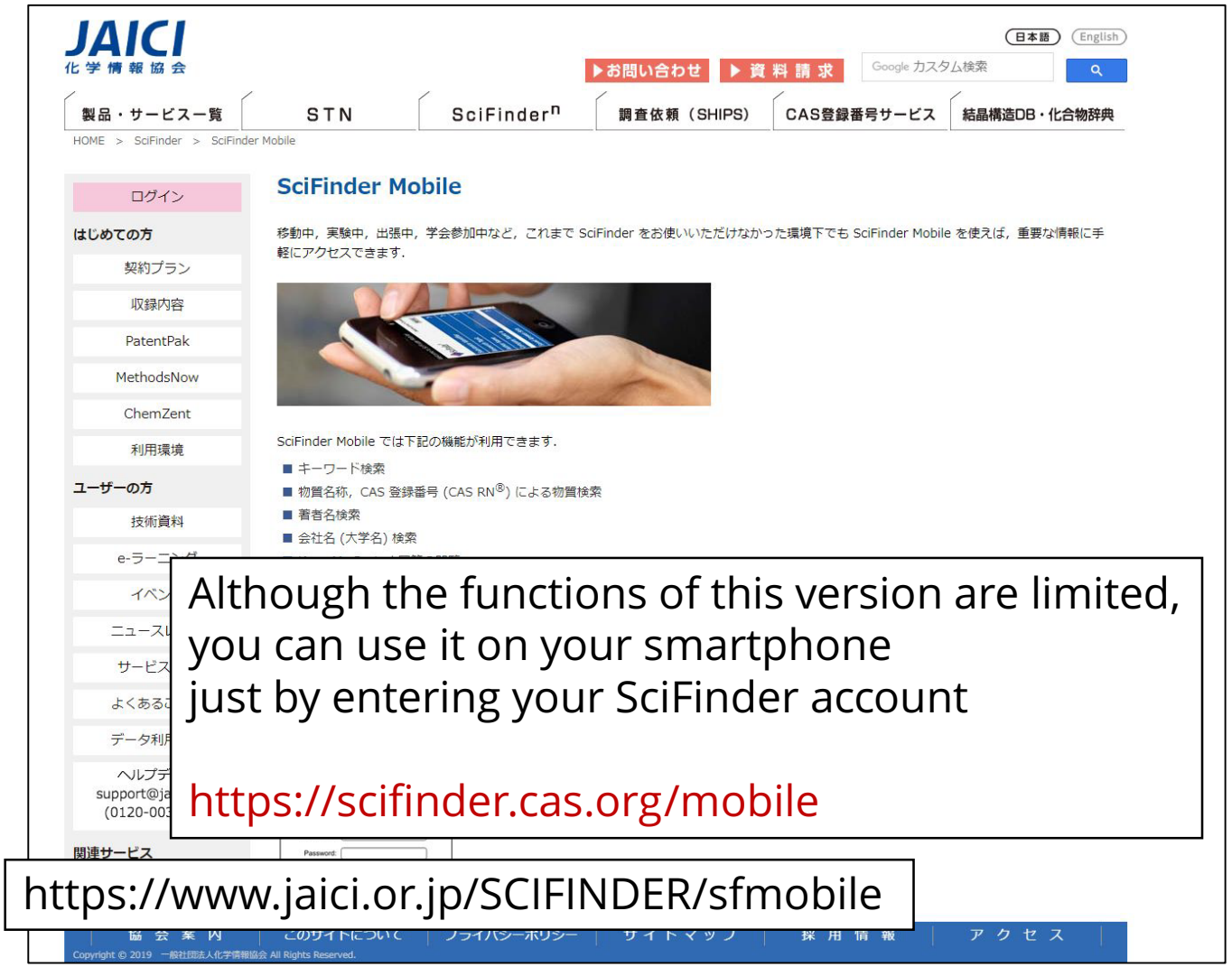
Dictionary

Using off-campus

- Remote Access

- SciFinder Mobile

Workshop



Although the functions of this version are limited,
you can use it on your smartphone
just by entering your SciFinder account

https://scifinder.cas.org/mobile

https://www.jaici.or.jp/SCIFINDER/sfmobile

3. Helps and Tips

E-learning

Search Guides

Helpdesk

Dictionary

Using off-campus

- Remote Access
- SciFinder Mobile

Workshop

化学研究を加速させる！
物質×反応×文献データベース講習会

SciFinder（サイファインダー）編

CAS登録番号を持つ全物質約2億件を収録

SciFinderは、論文、特許に加え、化学物質や反応情報を網羅的に検索できる化学系必須ツール。専門インストラクターがその利用方法をレクチャーします。

参加するには―
北海道大学の学生・教職員であれば、所属に関わらず、どの会場でも参加できます。
・基礎コース：初めて使う方向け（hokudai.ac.jpのメールアドレスが必要）
・応用コース：既に利用している方向け（SciFinderのアカウントが必要）

【要事前申込】の会場については事前にWebからお申し込みください。→
https://www.lib.hokudai.ac.jp/?p=68835

日程	時間	コース	言語	会場
10/16(水)	13:30-14:30	応用	日本語	北キャンパス [定員15名] 北キャンパス総合研究棟5号館（電子科学研究所）1階 北キャンパス図書室 ※この会場には実習用PCがありません。 無線LANに接続できるデバイスと ELMS、SSO、IICのいずれかのID/PWをご用意ください。
	14:45-15:45	応用	英語	
	16:30-18:00	基礎&応用	日本語	理学部 [定員15名]【要事前申込】 理学部8号館1階 04号室（1-04） 情報メディア教育センター端末室
10/17(木)	14:45-16:15	基礎	日本語	薬学部 [定員30名] 薬学部臨床薬学講義棟1階 情報端末室（S103）
	16:30-17:30	応用	日本語	
				農学部 [定員35名]【要事前申込】

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Hokkaido University holds the workshops twice a year, usually in spring and fall

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