HOKKAIDO UNIVERSITY

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Author(s)	Hokkaido University Northern Campus Library
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File Information	SSuG4NJR.pdf

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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 ...

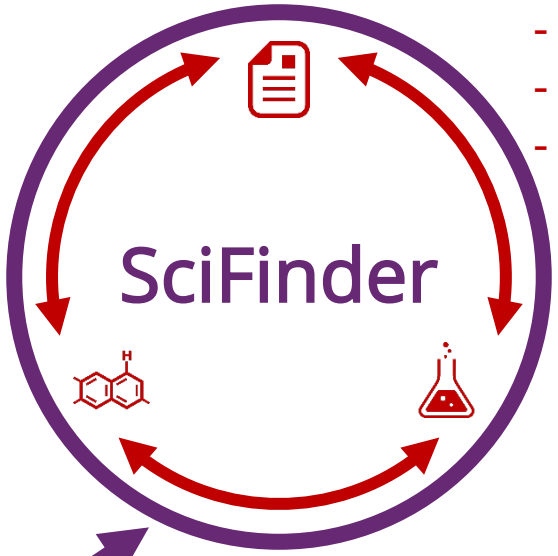
- requires one account per person

SciFinder Start-up Guidance

From the perspective of a non-chemist

1. Registration

your own e-mail address of
“hokudai.ac.jp” needed



2. Overview

- Reference Search
- Substance Search
- Reaction Search

3. Helps and Tips

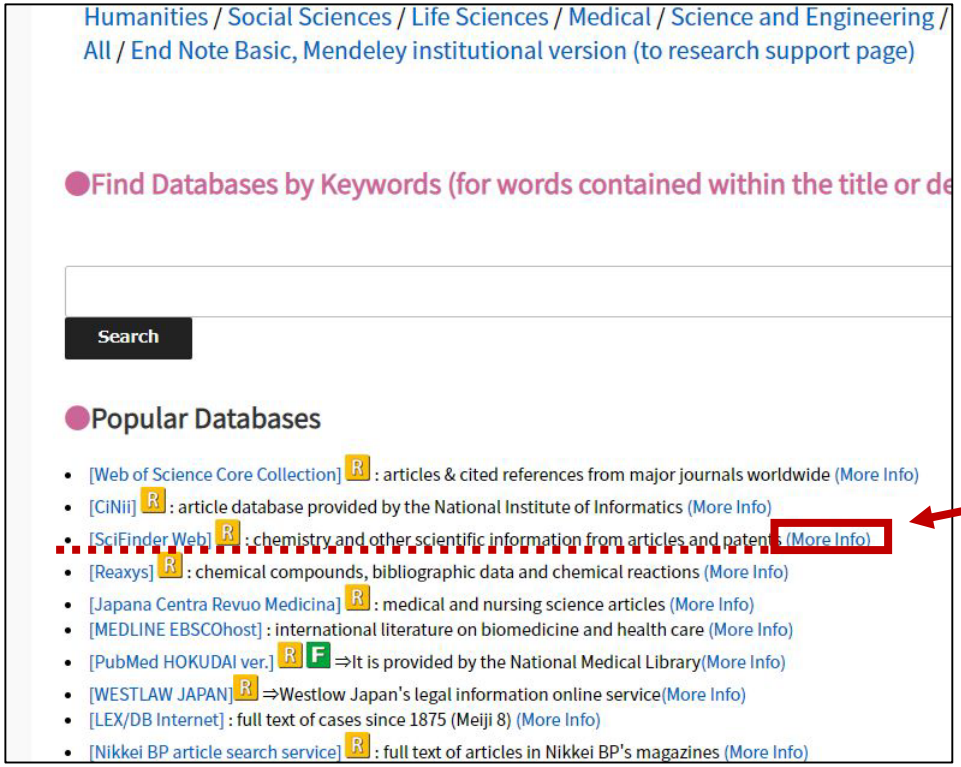
Especially

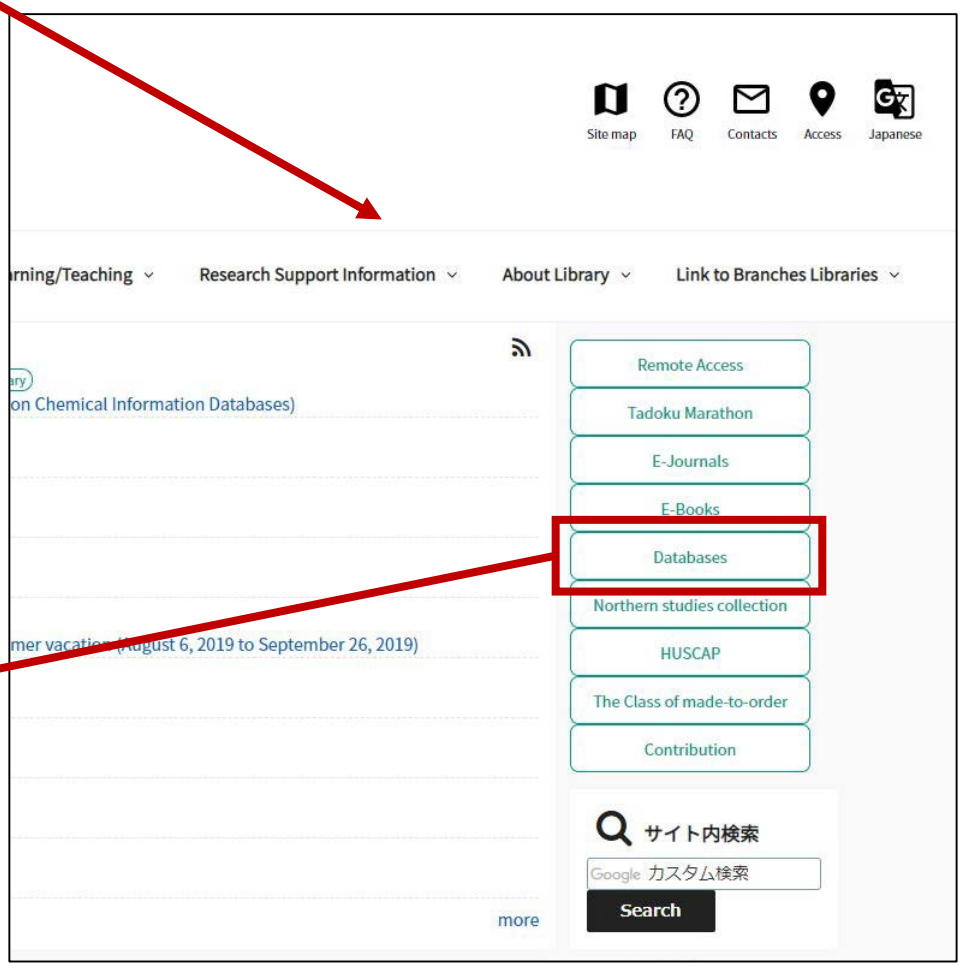
Workshop by
a professional instructor
on Oct. 16th

Please use later
and join!

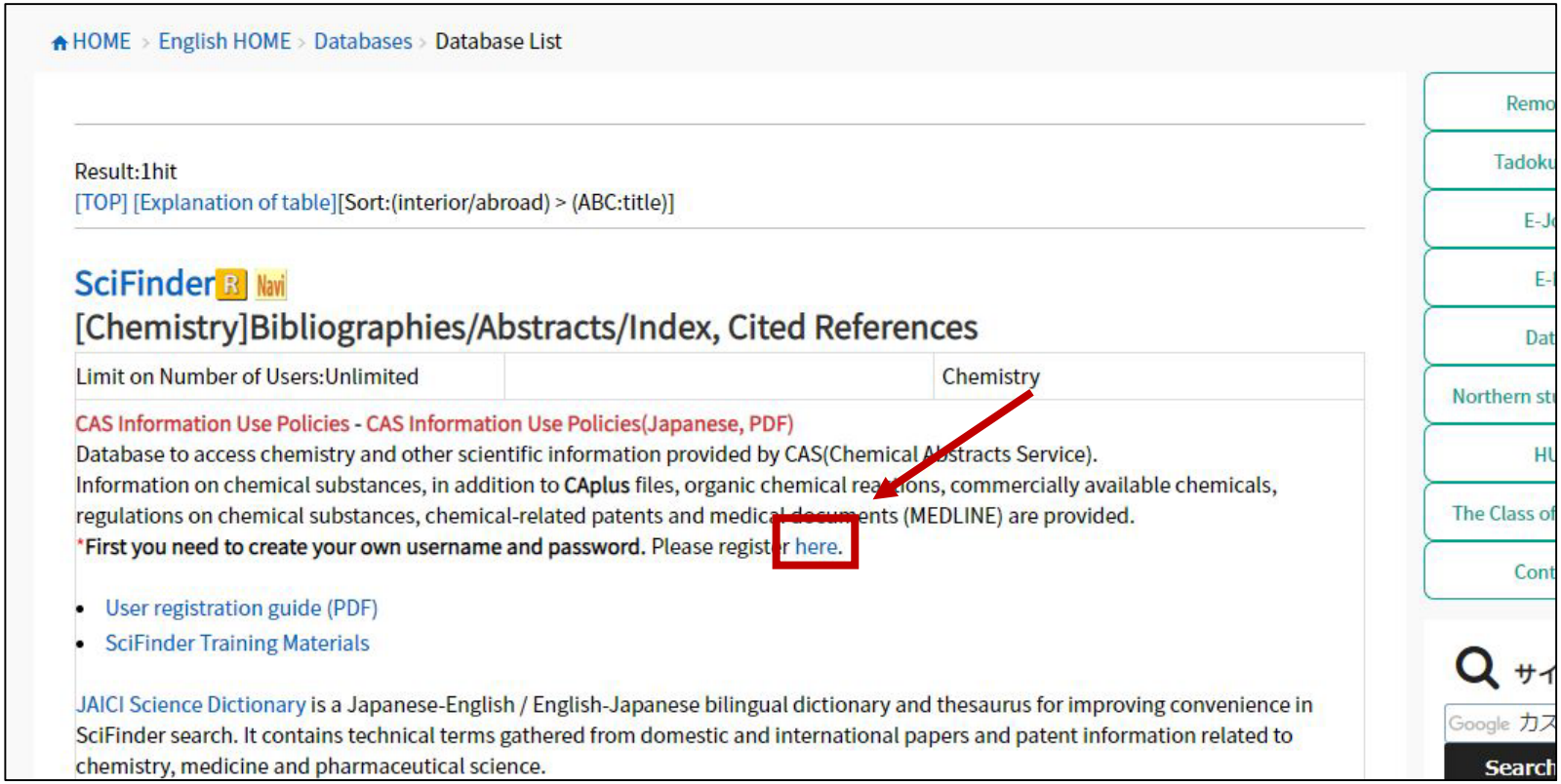
1. Registration

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



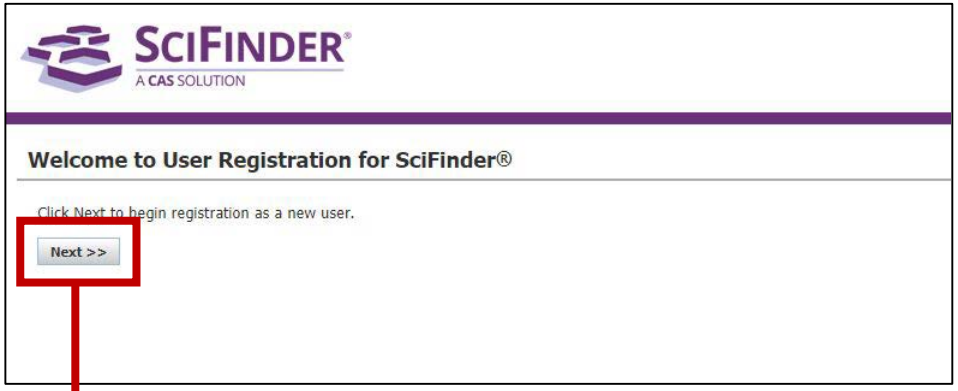


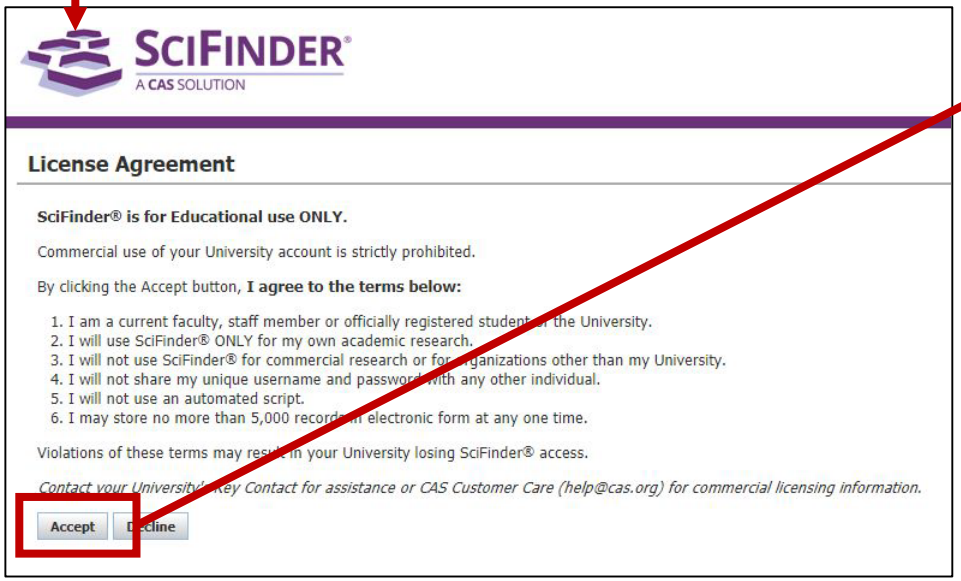
1. Registration

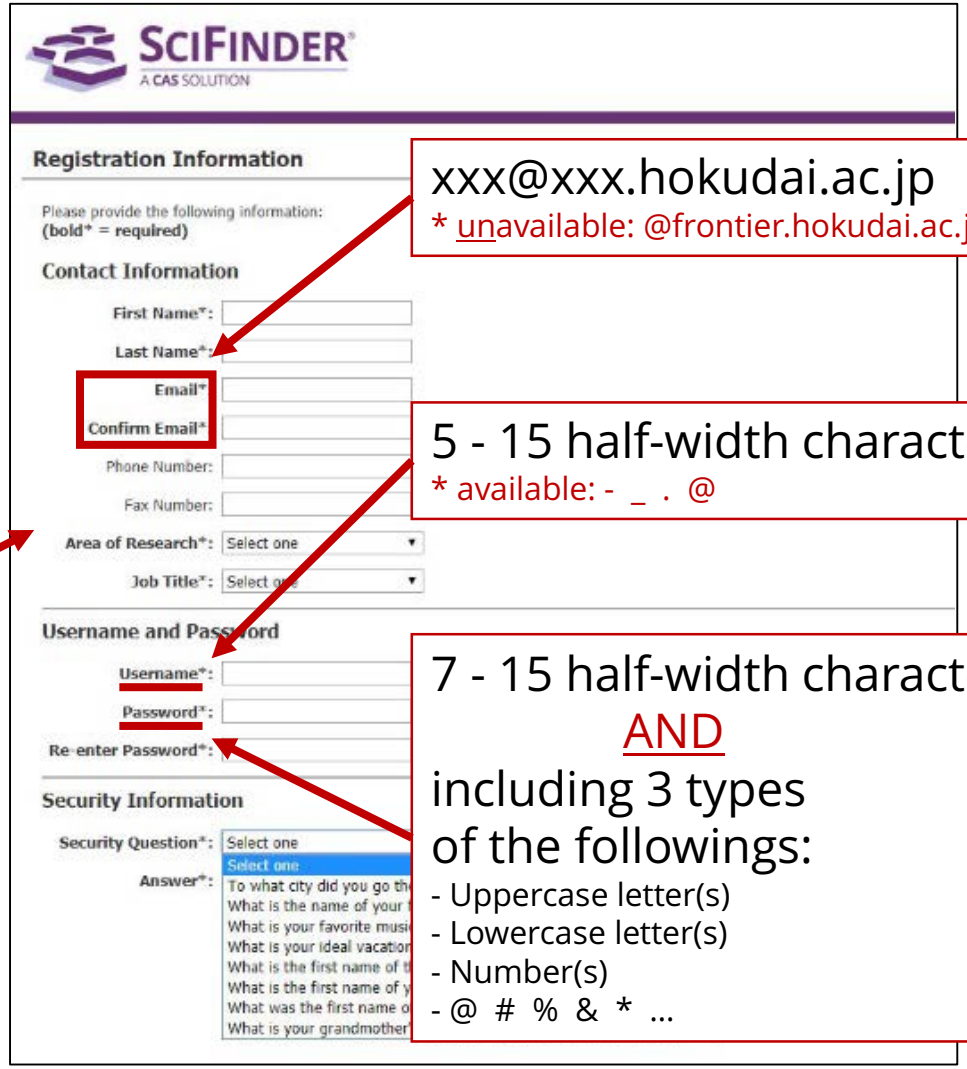


… or access →

1. Registration







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

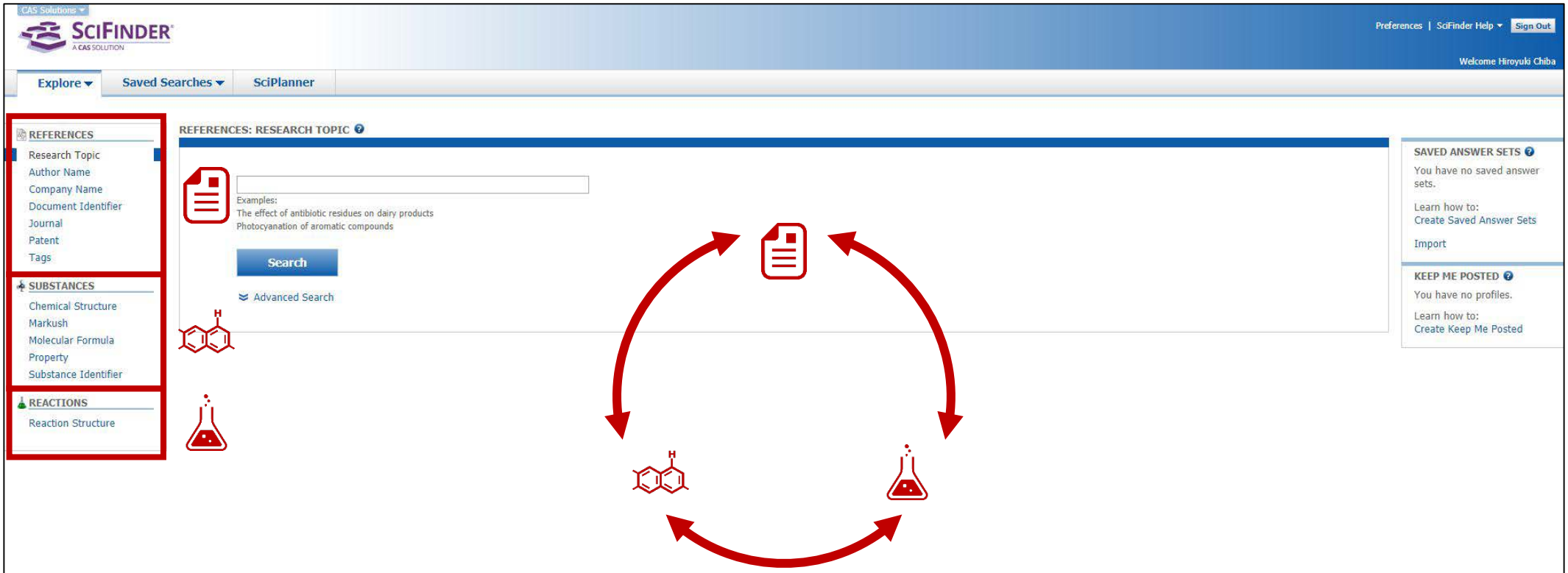
5 - 15 half-width characters
* available: - _ . @

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

1. Registration

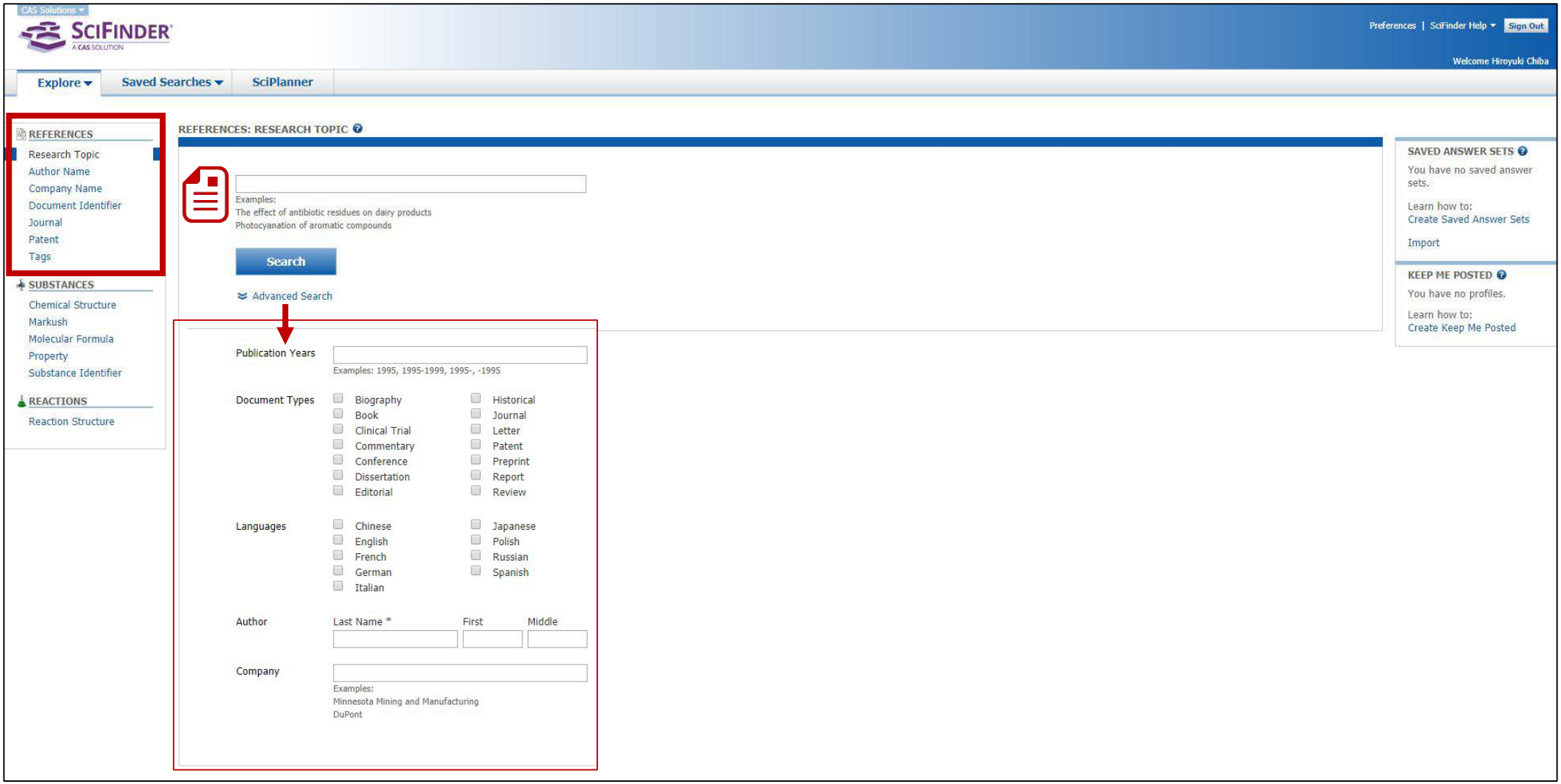
After clicking the link in the e-mail from CAS, access http://scifinder.cas.org

2. Overview

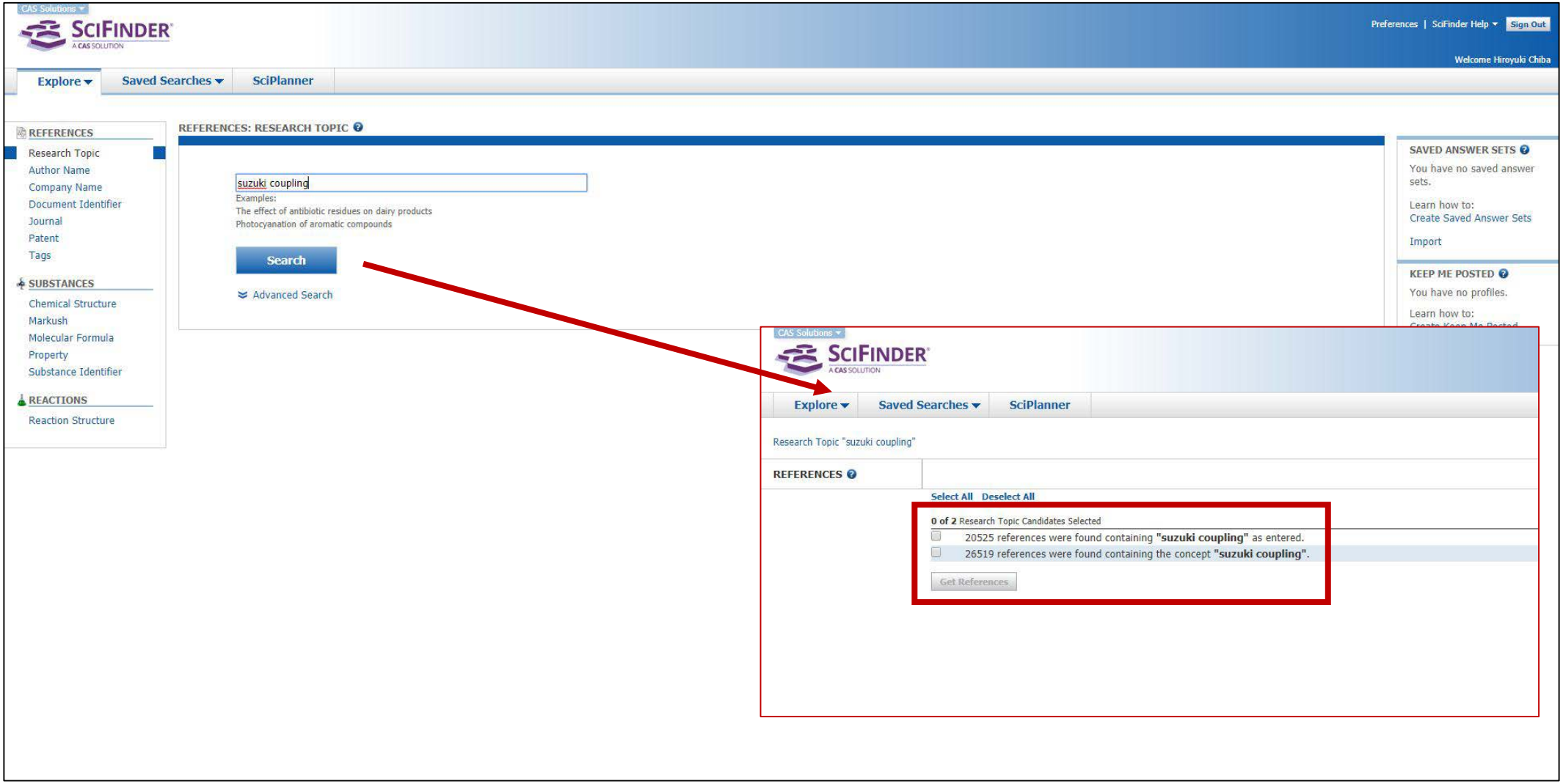


You can move from one search category to the others.
For example, after you find a reference,
you can also find the substances and reactions mentioned on it.

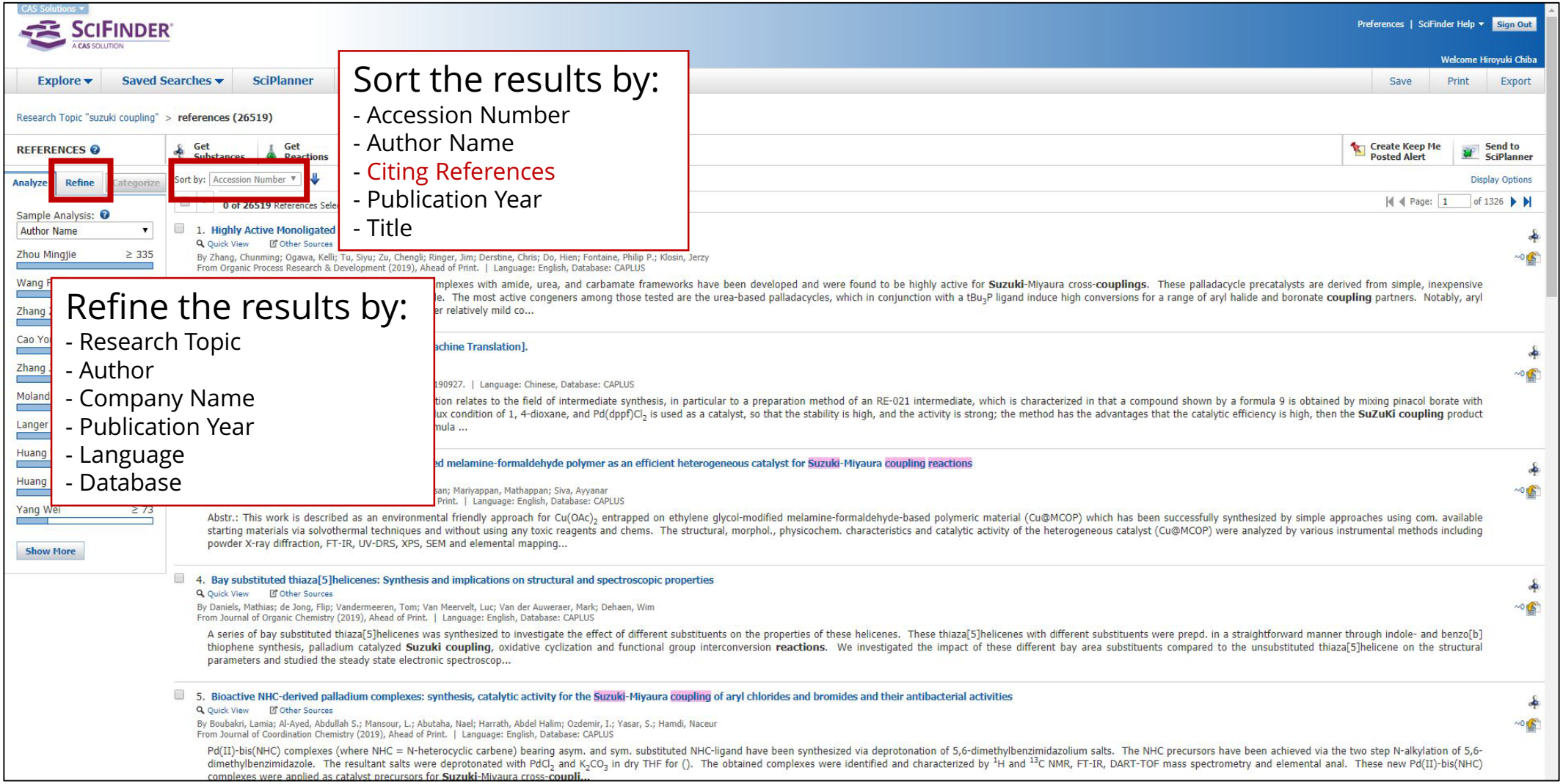
2. Overview


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

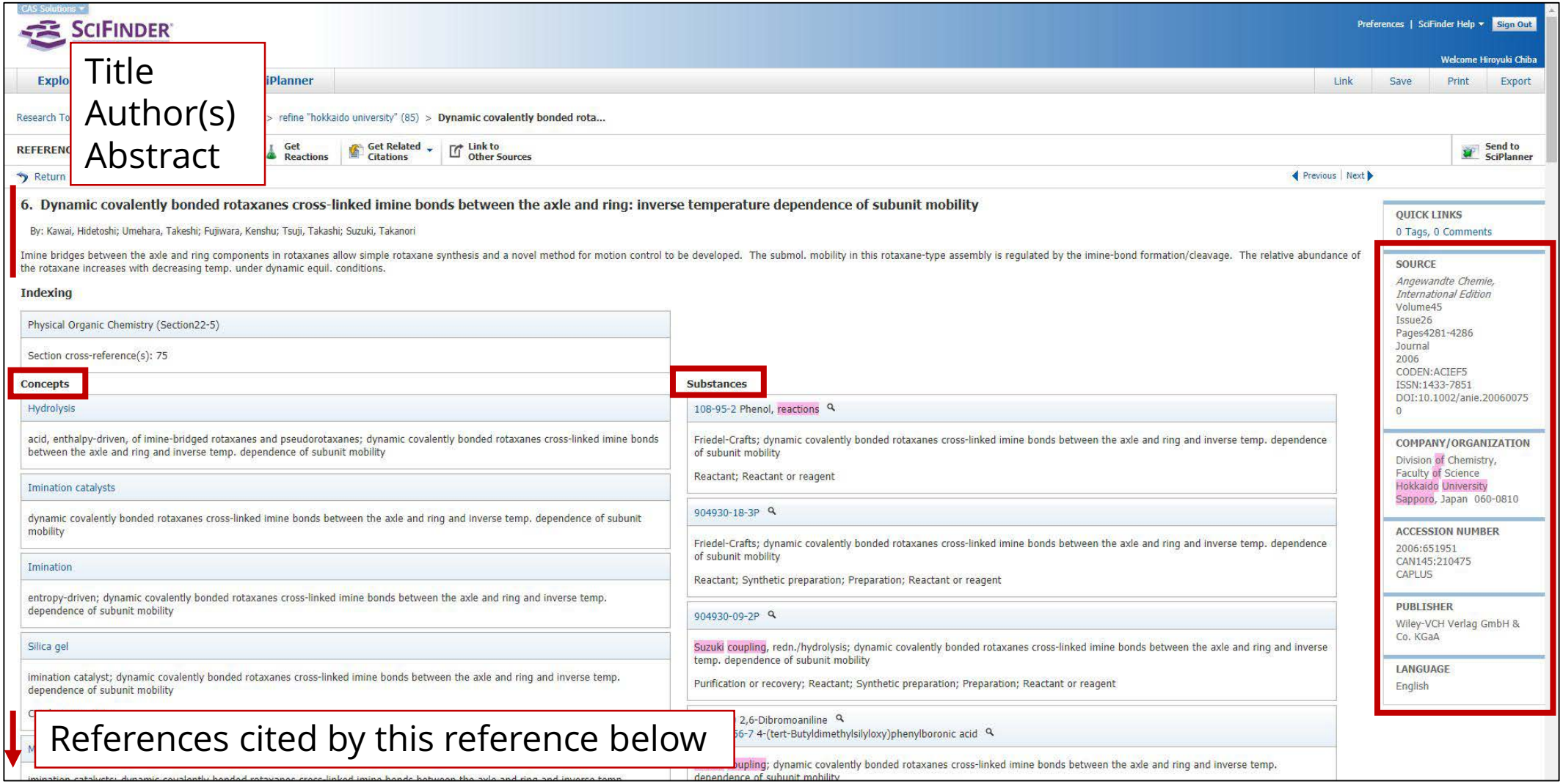
2. Overview


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

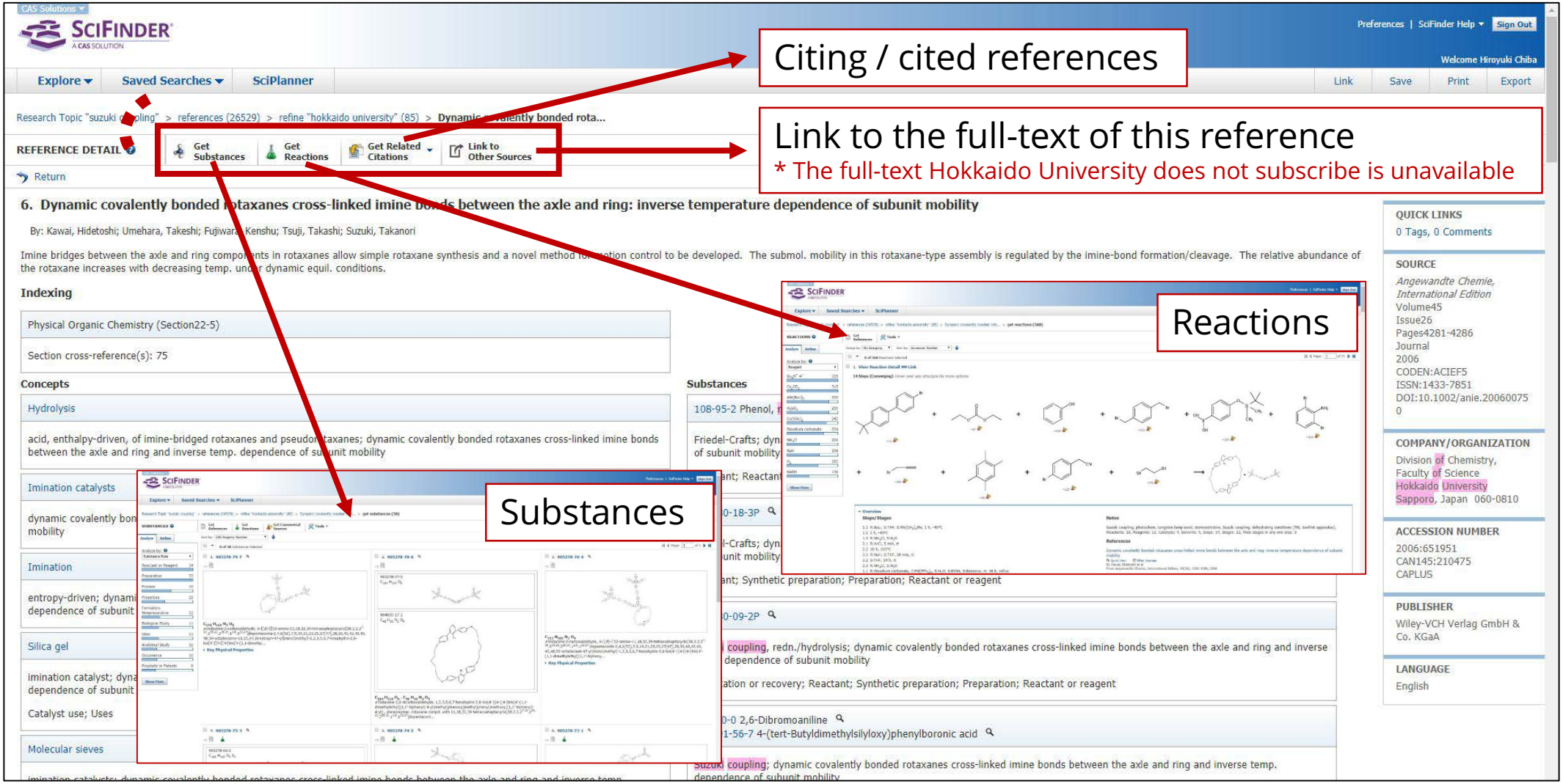
2. Overview


SciFinder
Explore
Saved Searches
SciPlanner
Save
Print
Export
Research Topic "suzuki coupling" > references (26519)
REFERENCES
Analyze
Refine
Categorize
Sort by: Accession Number
Sample Analysis:
Author Name
Show More
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
1. Highly Active Monoligated
4. Bay substituted thiaza[5]helicenes: Synthesis and implications on structural and spectroscopic properties
5. Bioactive NHC-derived palladium complexes: synthesis, catalytic activity for the Suzuki-Miyaura coupling of aryl chlorides and bromides and their antibacterial activities

2. Overview

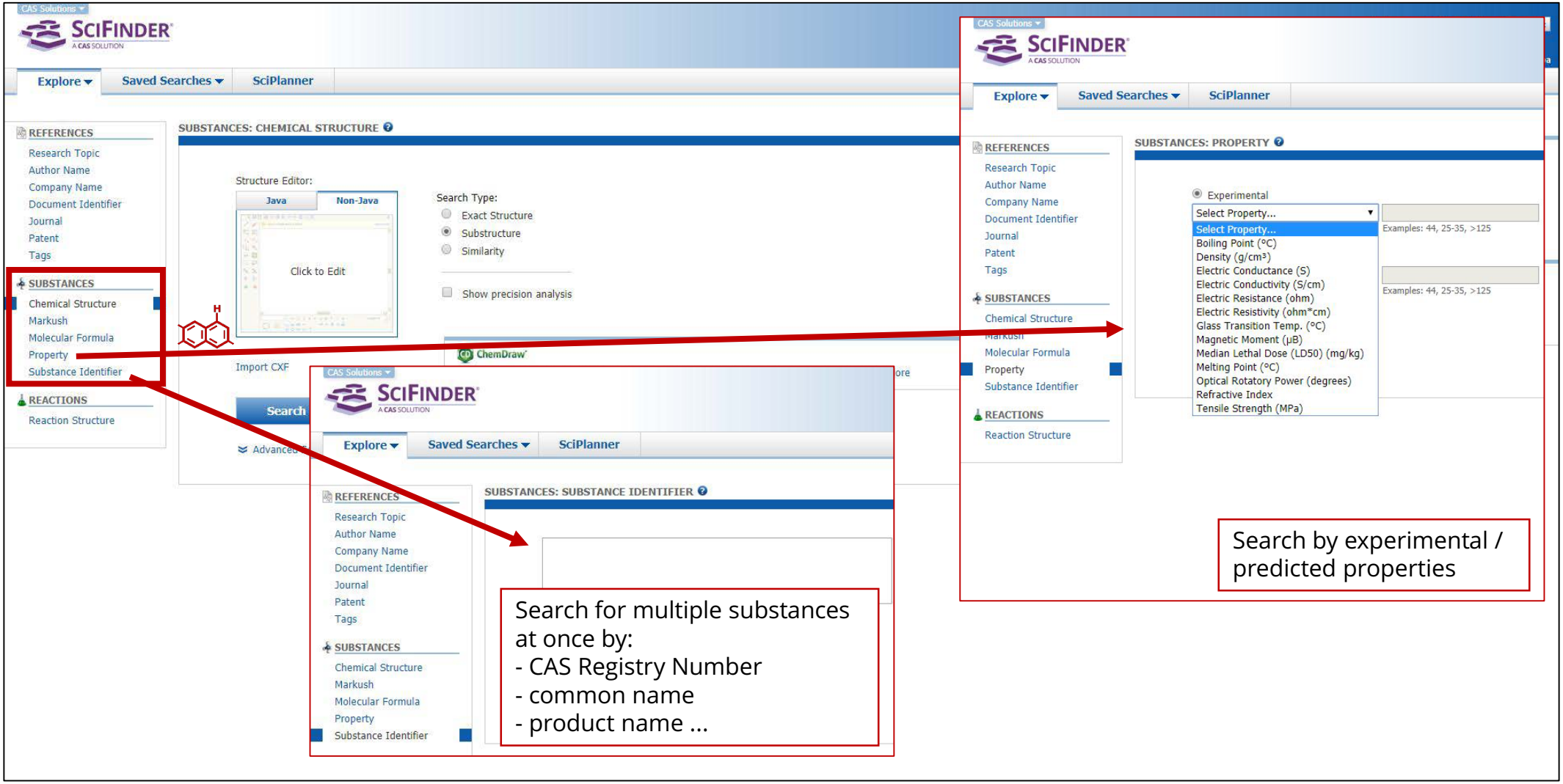

SciFinder
Preferences | SciFinder Help
Sign Out
Welcome Hiroyuki Chiba
Link
Save
Print
Export
Title
Author(s)
Abstract
refine "hokkaido university" (85) > Dynamic covalently bonded rota...
Get Reactions
Get Related Citations
Link to Other Sources
Send to SciPlanner
Return
Previous
Next
6. Dynamic covalently 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.200600750
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
References cited by this reference below

2. Overview

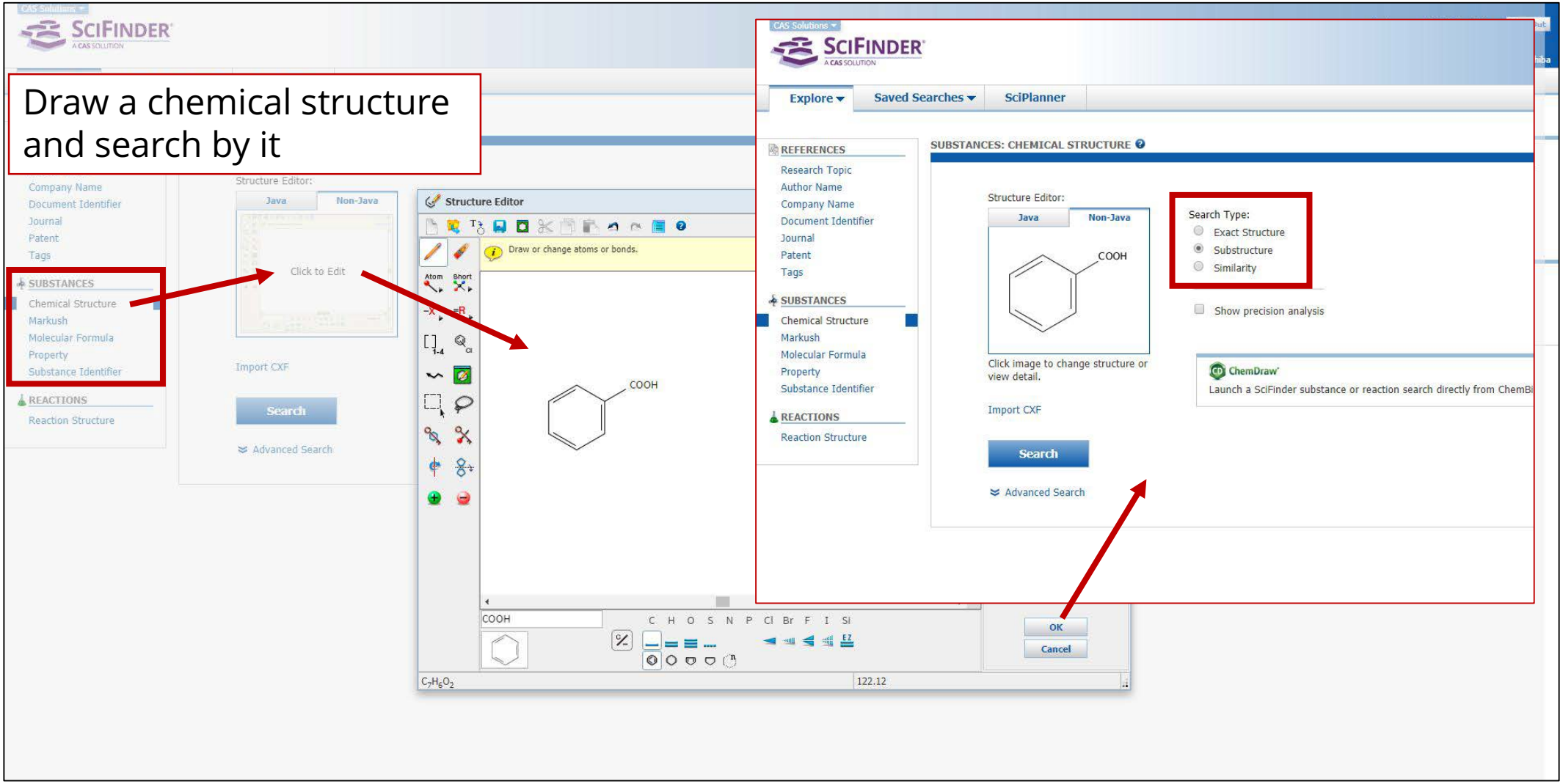


Citing / cited references
Link to the full-text of this reference
* The full-text Hokkaido University does not subscribe is unavailable
Reactions
Substances
SciFinder
Explore
Saved Searches
SciPlanner
Link
Save
Print
Export
REFERENCE DETAIL
Get Substances
Get Reactions
Get Related Citations
Link to Other Sources
Return
6. Dynamic covalently bonded rotaxanes cross-linked imine bonds between the axle and ring: inverse temperature dependence of subunit mobility
Indexing
Physical Organic Chemistry (Section22-5)
Section cross-reference(s): 75
Concepts
Hydrolysis
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

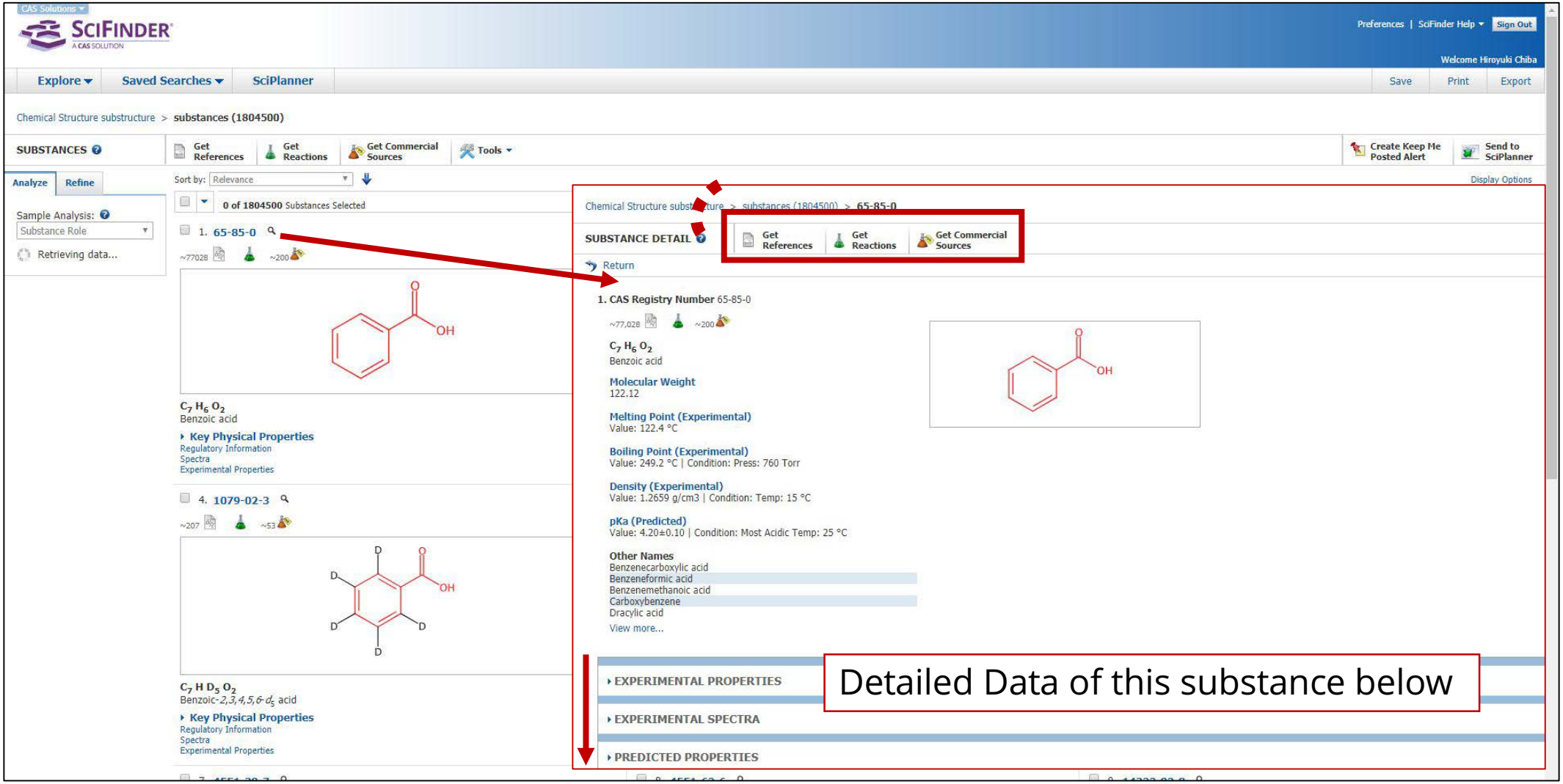
2. Overview


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
ChemDraw
Search
Advanced
SUBSTANCES: SUBSTANCE IDENTIFIER
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
Search for multiple substances at once by:
- CAS Registry Number
- common name
- product name ...
Search by experimental / predicted properties

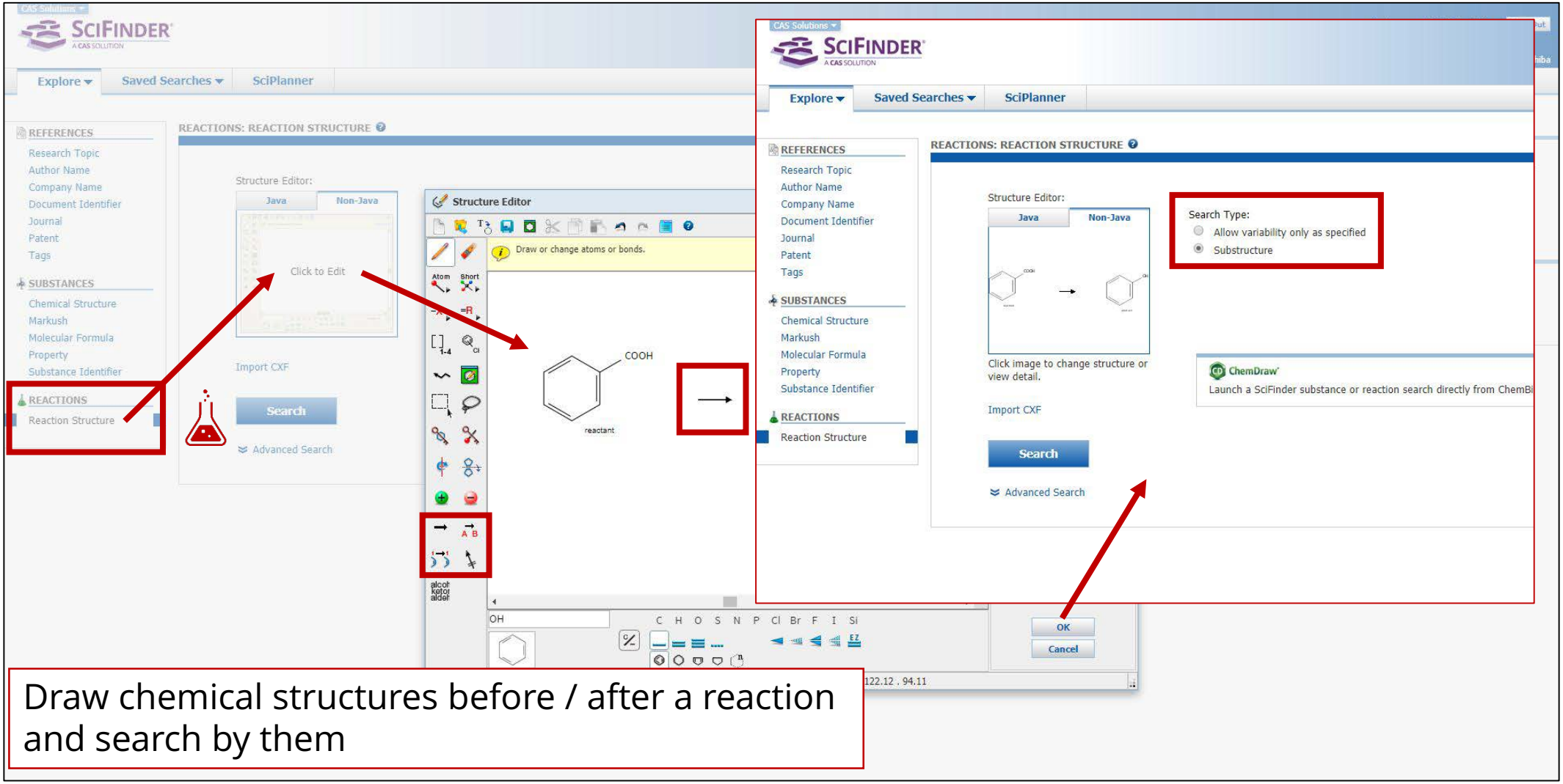
2. Overview


Draw a chemical structure and search by it
SCIFINDER
Company Name
Document Identifier
Journal
Patent
Tags
SUBSTANCES
Chemical Structure
Markush
Molecular Formula
Property
Substance Identifier
REACTIONS
Reaction Structure
Structure Editor:
Java
Non-Java
Click to Edit
Import CXF
Search
Advanced Search
Structure Editor
Draw or change atoms or bonds.
COOH
OK
Cancel
Explore
Saved Searches
SciPlanner
REFERENCES
Research Topic
Author Name
SUBSTANCES: CHEMICAL STRUCTURE
Search Type:
Exact Structure
Substructure
Similarity
Show precision analysis
Click image to change structure or view detail.
ChemDraw
Launch a SciFinder substance or reaction search directly from ChemBi

2. Overview

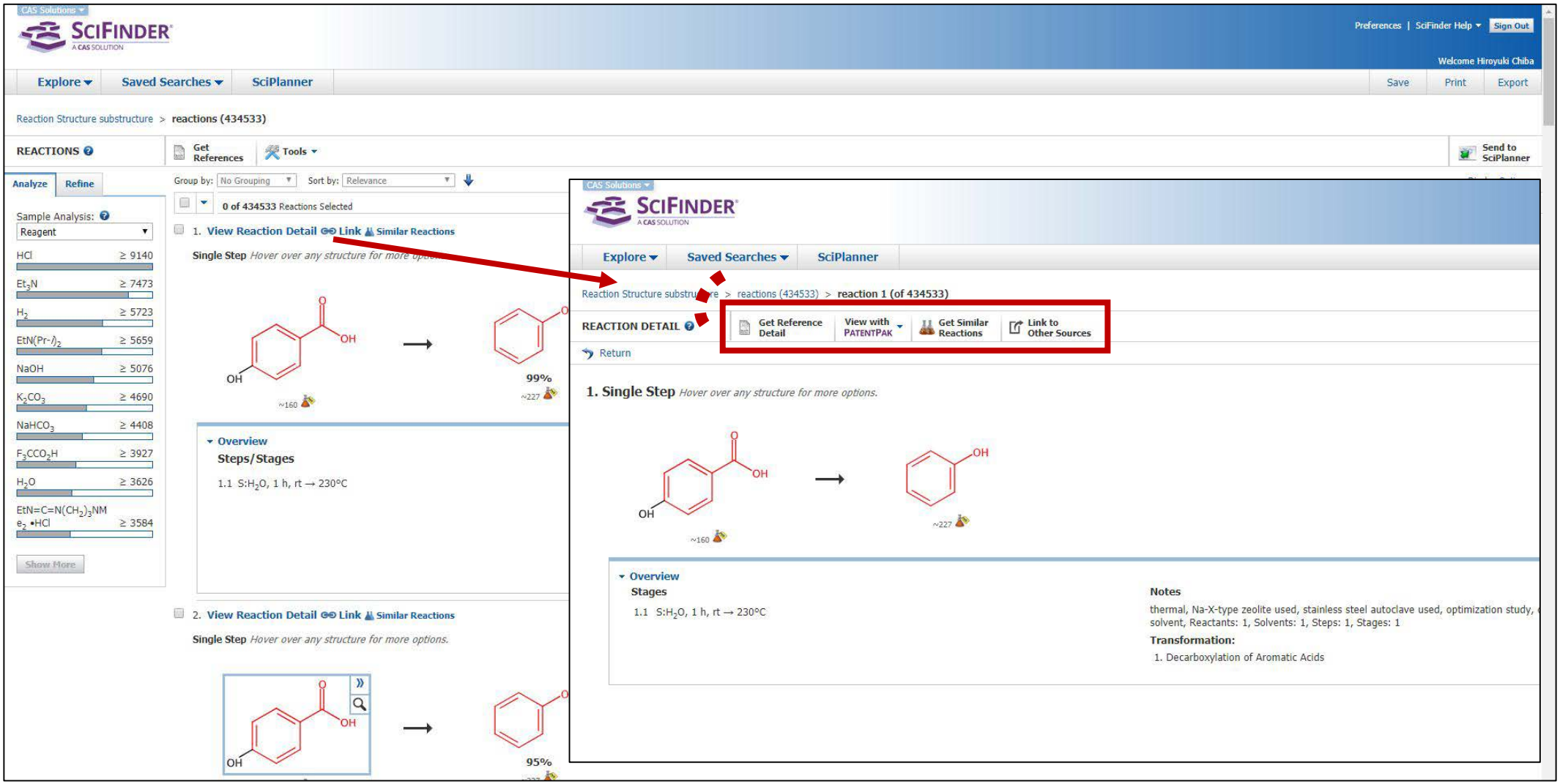

SciFinder
Explore
Saved Searches
SciPlanner
Save
Print
Export
Chemical Structure substructure > substances (1804500)
SUBSTANCES
Get References
Get Reactions
Get Commercial Sources
Tools
Create Keep Me Posted Alert
Send to SciPlanner
Analyze
Refine
Sample Analysis:
Substance Role
Retrieving data...
Sort by: Relevance
0 of 1804500 Substances Selected
1. 65-85-0
$C_7H_6O_2$
Benzoic acid
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
4. 1079-02-3
$C_7HD_5O_2$
Benzoic-2,3,4,5,6-d_5 acid
Key Physical Properties
Regulatory Information
Spectra
Experimental Properties
SUBSTANCE DETAIL
Return
1. CAS Registry Number 65-85-0
$C_7H_6O_2$
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
Preferences | SciFinder Help
Sign Out
Welcome Hiroyuki Chiba
Explore
Saved Searches
SciPlanner
Save
Print
Export
Reaction Structure substructure > reactions (434533)
REACTIONS
Get References
Tools
Send to SciPlanner
Analyze
Refine
Group by: No Grouping
Sort by: Relevance
0 of 434533 Reactions Selected
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
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.cas.org/support/training/scifinder

3. Helps and Tips

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

3. Helps and Tips

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

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- SciFinder Mobile

Workshop

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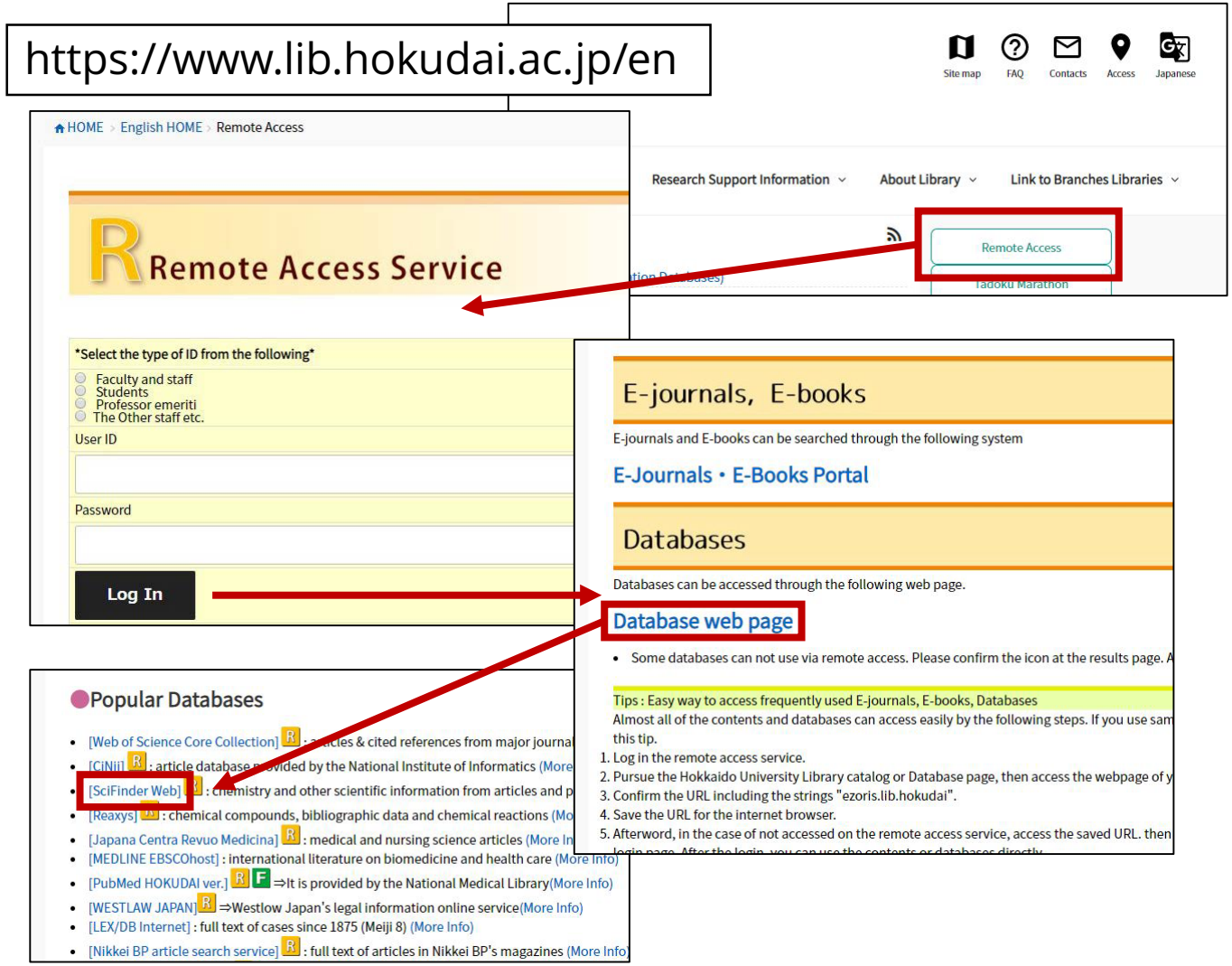
- SciFinder Mobile

Workshop



3. Helps and Tips

E-learning

Search Guides

Helpdesk

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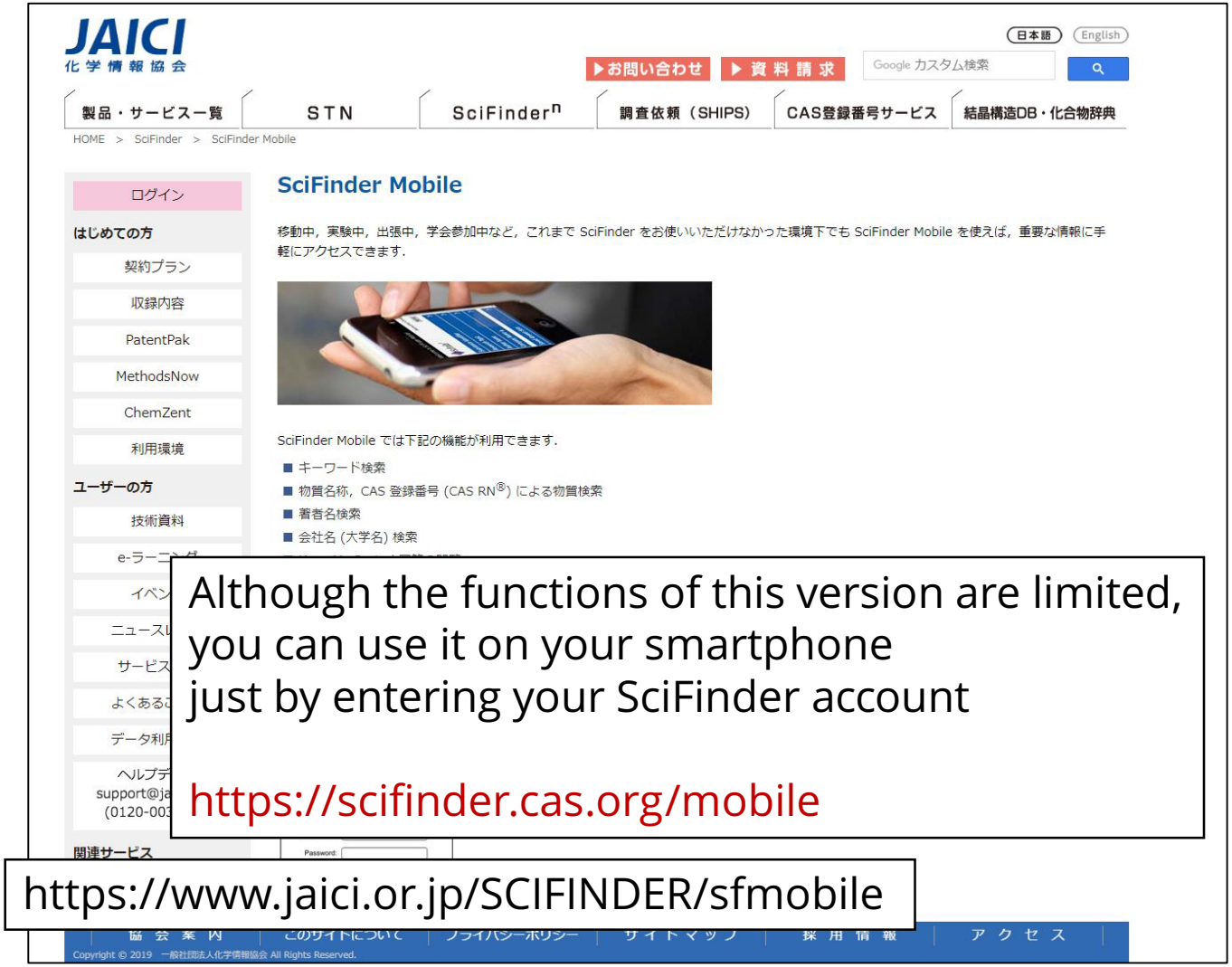
- Remote Access
- SciFinder Mobile

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

For accelerating Chemical Research!
Workshop Series on Chemical Information Databases
Workshop on
SciFinder
containing all the chemical substances registered by CAS

SciFinder is an essential tool for the chemists, with which they can comprehensively search chemicals and reaction information in addition to papers and patents!
A professional instructor will lecture on how to use it.

How to participate:
Students, faculty, and staff of Hokkaido University can join any venue.
- Basic Course: for first-time users
  * the own e-mail address of hokudai.ac.jp is needed
- Advanced Course: for those already using
  * the own SciFinder account is needed

Please apply in advance
when you join the venue marked with 【Application Needed】 →
https://www.lib.hokudai.ac.jp/?p=68938

Date	Time	Course	Language	Venue
Wed. Oct. 16th	13:30-14:30	Advanced	Japanese	Northern Campus [Seating Capacity: 15] Northern Campus BLDG. No. 5 (RIES) 1F Northern Campus Library * There are **NO** computers for training at this venue. Please prepare a device that can connect to the wireless LAN, and your own ID/PW of ELMS, SSO, or iiC.
	14:45-15:45	Advanced	English	
	16:30-18:00	Basic & Advanced	Japanese	Faculty of Science [Seating Capacity:15] 【Application Needed】 School of Science BLDG. No. 8 1F Media Education Center Computer Room (1-04)
Thu. Oct. 17th	14:45-16:15	Basic	Japanese	Faculty of Pharmaceutical Sciences [Seating Capacity: 30] School of Pharmaceutical Sciences BLDG. 1F Computer Room (S103)
	16:30-17:30	Advanced	Japanese	
				Faculty of Agriculture

kitacam@lib.hokudai.ac.jp sci@lib.hokudai.ac.jp ph@lib.hokudai.ac.jp agr@lib.hokudai.ac.jp

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

USE
SciFinder
AND
JOIN
the Workshop
on Oct. 16th