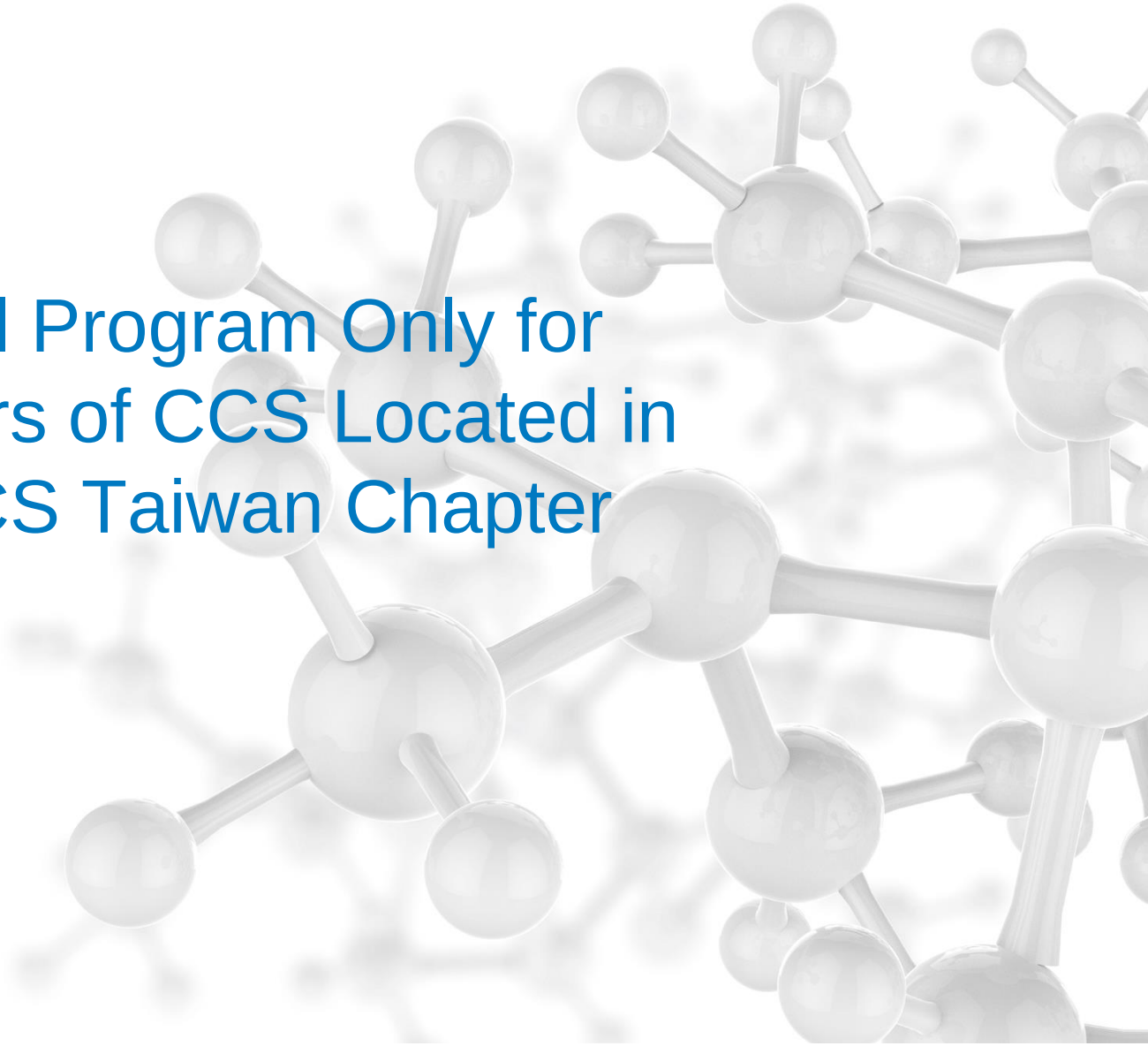
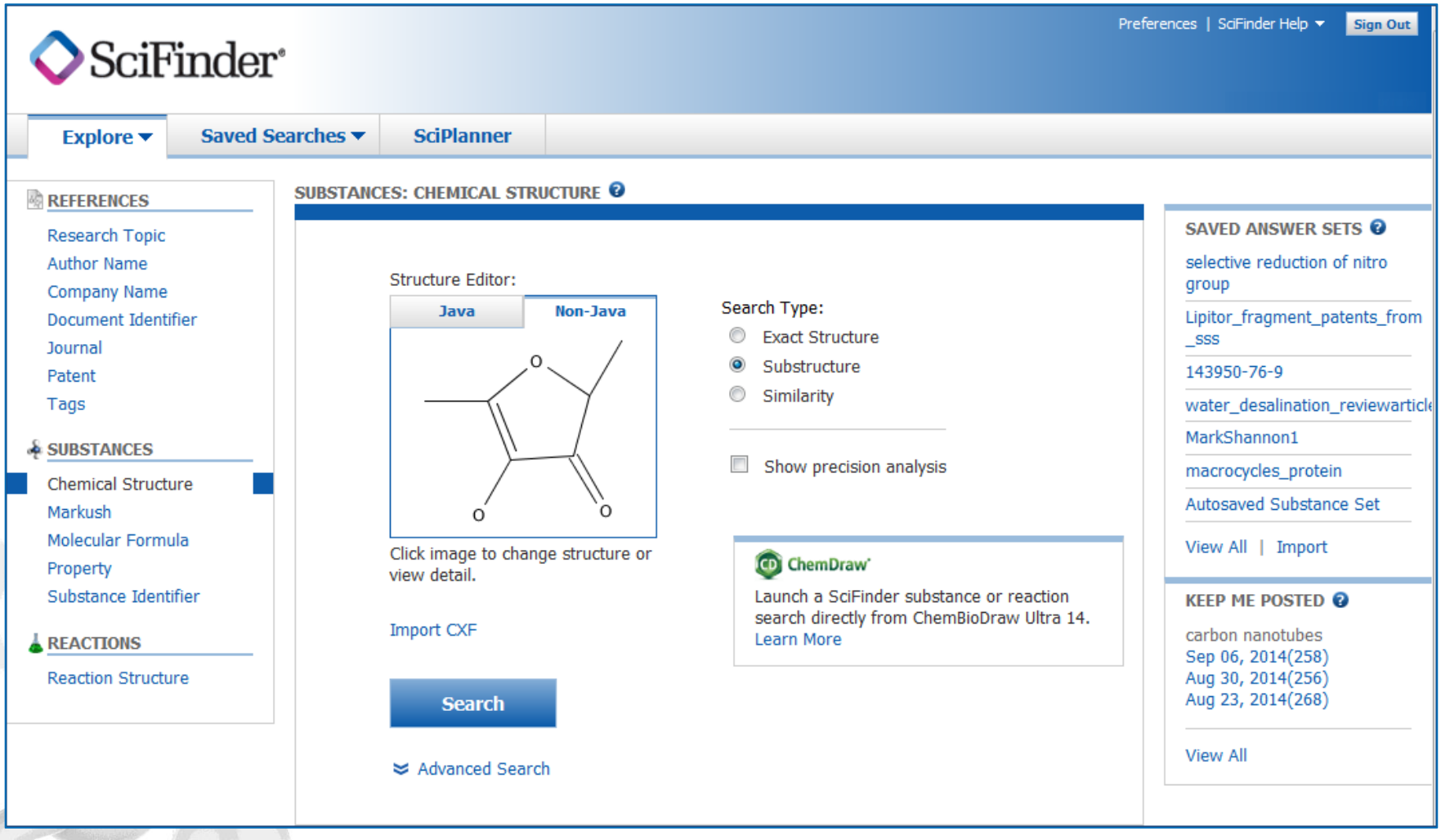
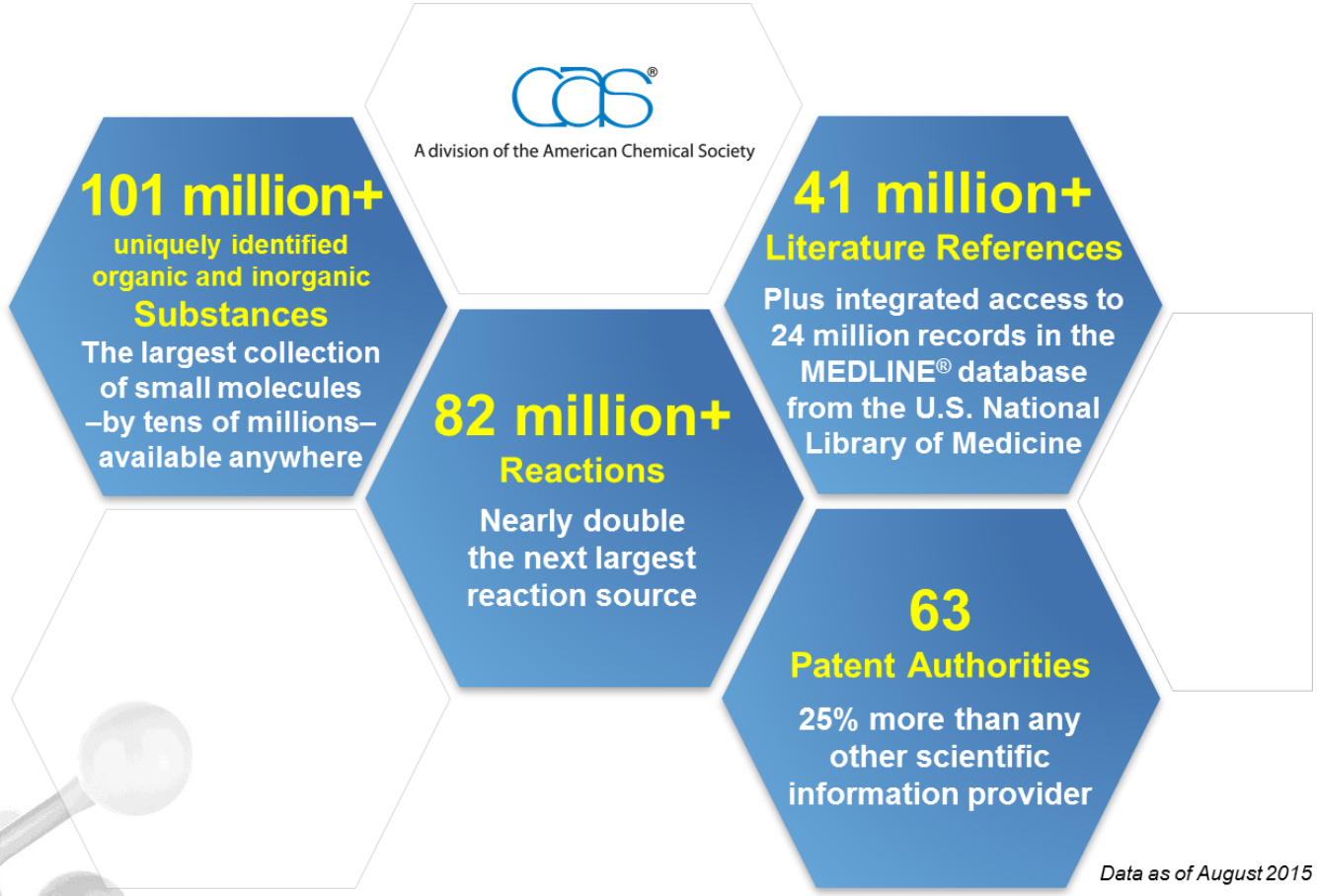
7 Days Trial Program Only for the Members of CCS Located in Taipei & ACS Taiwan Chapter



SciFinder provides an innovative interface that streamlines your research process



Database growth



Data as of August 2015

Chemistry: Central Science

CAplus, produced by CAS, contains more than 41 million chemistry and chemistry related research records categorized in 80 sections, with references in:

All areas of **biochemistry**

- Agrochemical regulators
- Biochemical genetics
- Fermentation
- Immunochemistry
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All areas of **organic chemistry**

- Amino acids
- Biomolecules
- Carbohydrates
- Organometallic compounds
- Steroids

All areas of **macromolecular chemistry**

- Cellulose, lignin, paper
- Coatings, inks
- Dyes, organic pigments
- Synthetic elastomers
- Textiles, fibers

All areas of **applied chemistry**

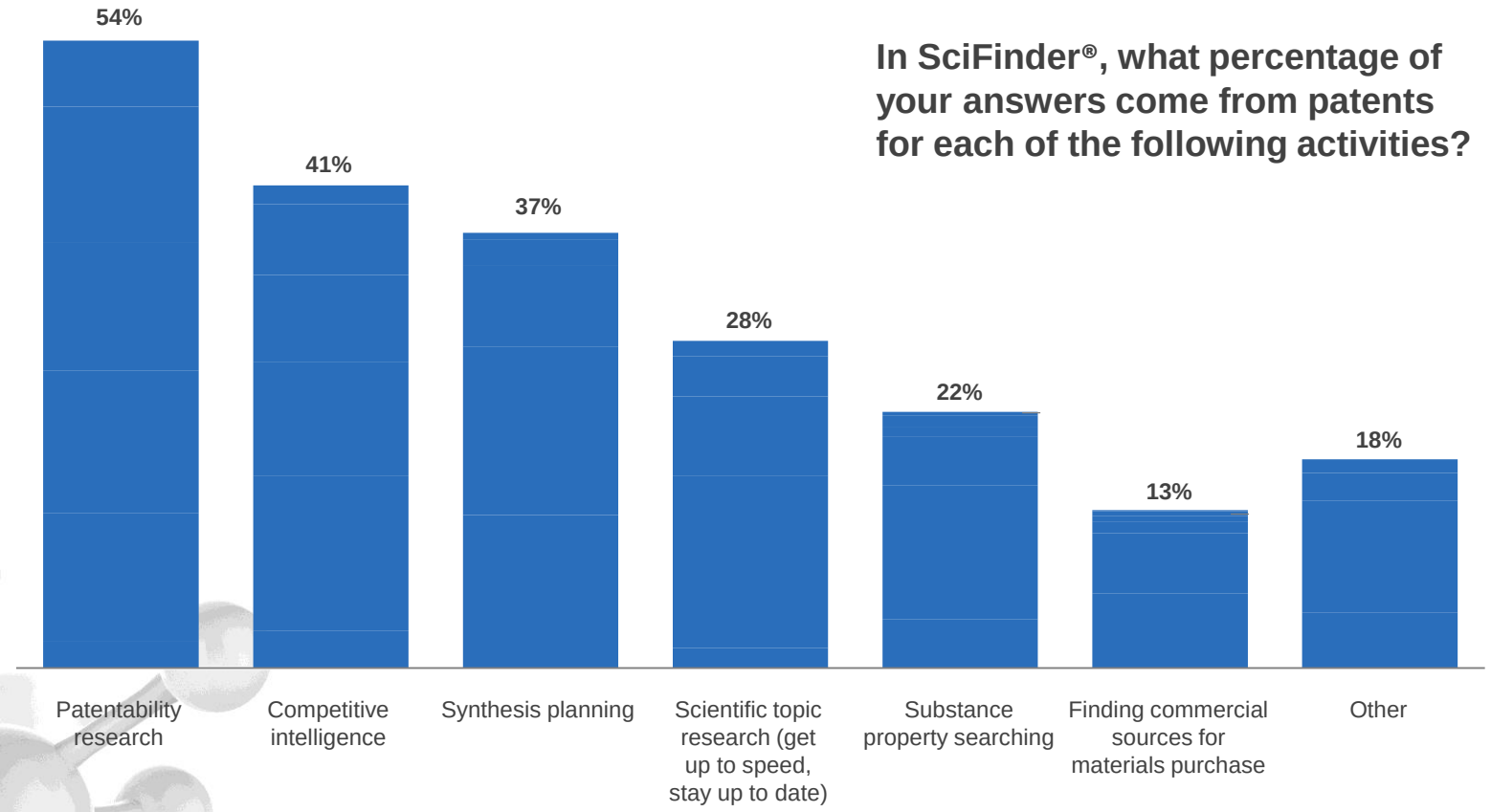
- Air pollution
- Ceramics
- Essential oils, cosmetics
- Fossil fuels
- Ferrous metals, alloys

All areas of **physical, inorganic, analytical chemistry**

- Surface chemistry
- Catalysts
- Phase equilibrium
- Nuclear phenomena
- Electrochemistry

Patents play a vital role in most research activities

In SciFinder®, what percentage of your answers come from patents for each of the following activities?



Source: September 2014 SciFinder Patent User Survey

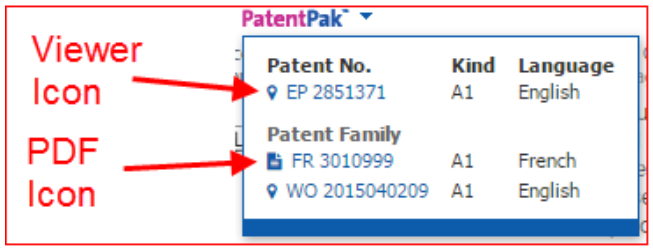
CAS covers patents from around the world

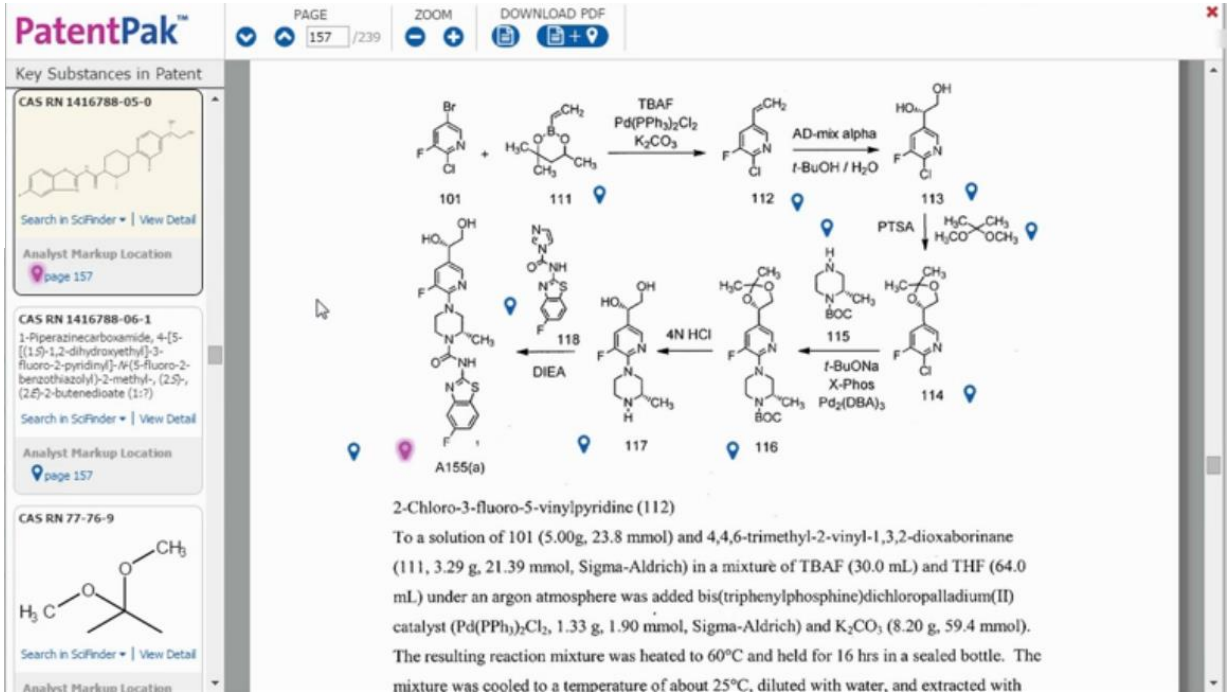
- Content from 63 patent issuing authorities
- Nine major patent offices available online in CAplus[SM]
  - within two days of publication
  - fully indexed by CAS scientists within 27 days from the date of issue.

CAS

PatentPak™

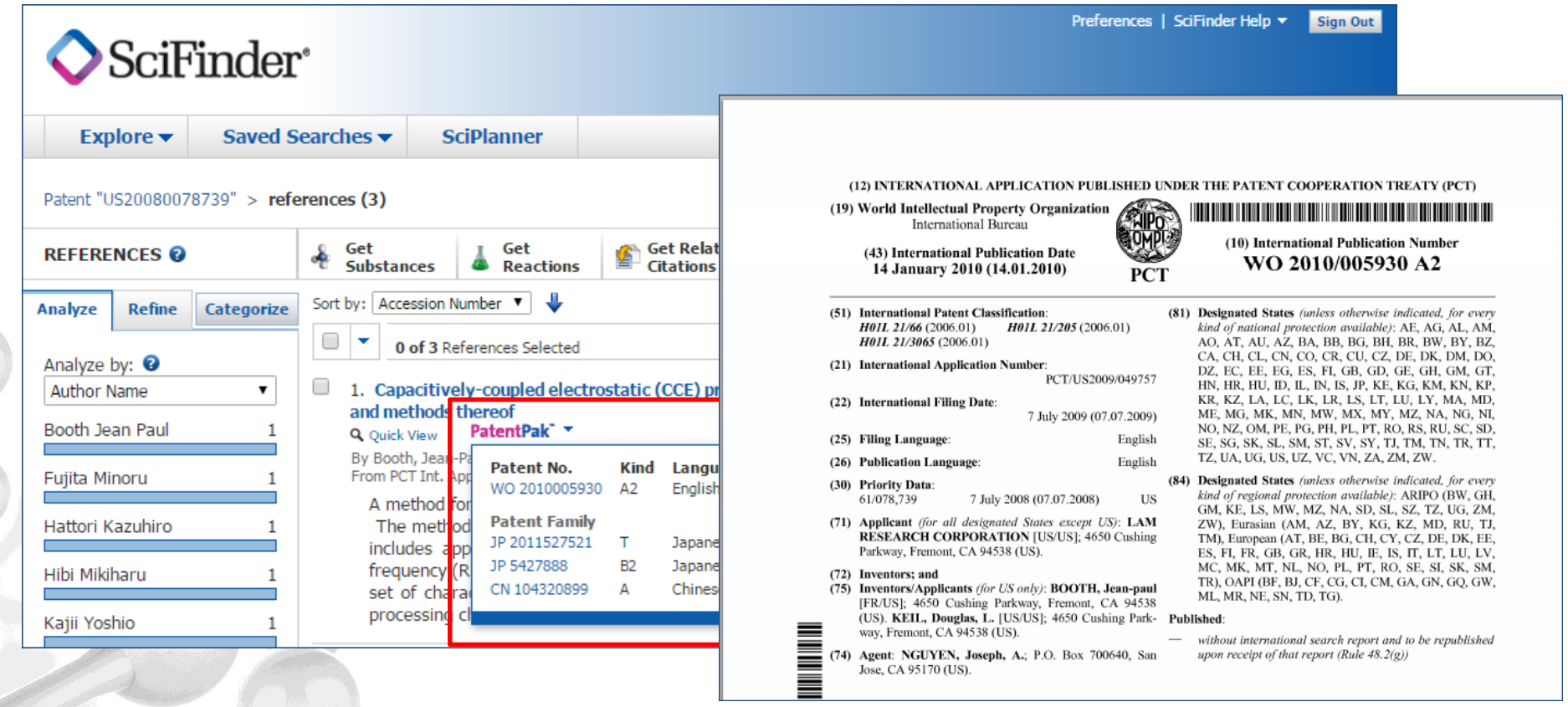
a robust **patent workflow solution** that allows scientists to **track down and locate** the **relevant chemistry** in patents using SciFinder **in half the time!**





Wouldn't it be nice to click immediately to the patent document?

- Avoid being relegated to hard to use 3rd party web sites
- PatentPak™ patents are fully searchable and support copy/paste



The global patent coverage available in PatentPak assists the scientist in finding an equivalent patent

- **PatentPak™** provides direct links to related patents in their original language which could be different than the patent indexed by CAS scientists.
- Find patents in English, Chinese, Japanese, Russian, German, French, and Korean

Patent Information

Patent No.		Kind	Language	Date
EP 2891484	PatentPak	A1		Jul 8, 2015
US 20150190359	PatentPak	A1	English	Jul 9, 2015
JP 2015129107	PatentPak	A	Japanese	Jul 16, 2015
CN 104758249	PatentPak	A	Chinese	Jul 8, 2015
KR 2015082078	PatentPak	A	Korean	Jul 15, 2015
WO 2015105458	PatentPak	A1	English	Jul 16, 2015

Links to key substances in the patent allow scientists to get directly to what matters most in no time at all

PatentPak™ links to the actual location in the patent where important substances are described in the claims or experimental sections in a unique patent document viewer

1636182-64-3P Page 127 in PatentPak

prepn. of triazinane trione derivs. and compns. thereof useful for treatment of diseases

Biological use, unclassified; Cosmetic use; Food or feed use; Other use, unclassified; Pharmacokinetics; Synthetic preparation; Therapeutic use; Biological study; Preparation; Uses

57-88-5P Cholesterol, preparation

1626333-91-2P Page 127 in PatentPak

1636182-63-2P Page 127 in PatentPak

1636182-65-4P Page 127 in PatentPak

1636182-66-5P Page 128 in PatentPak

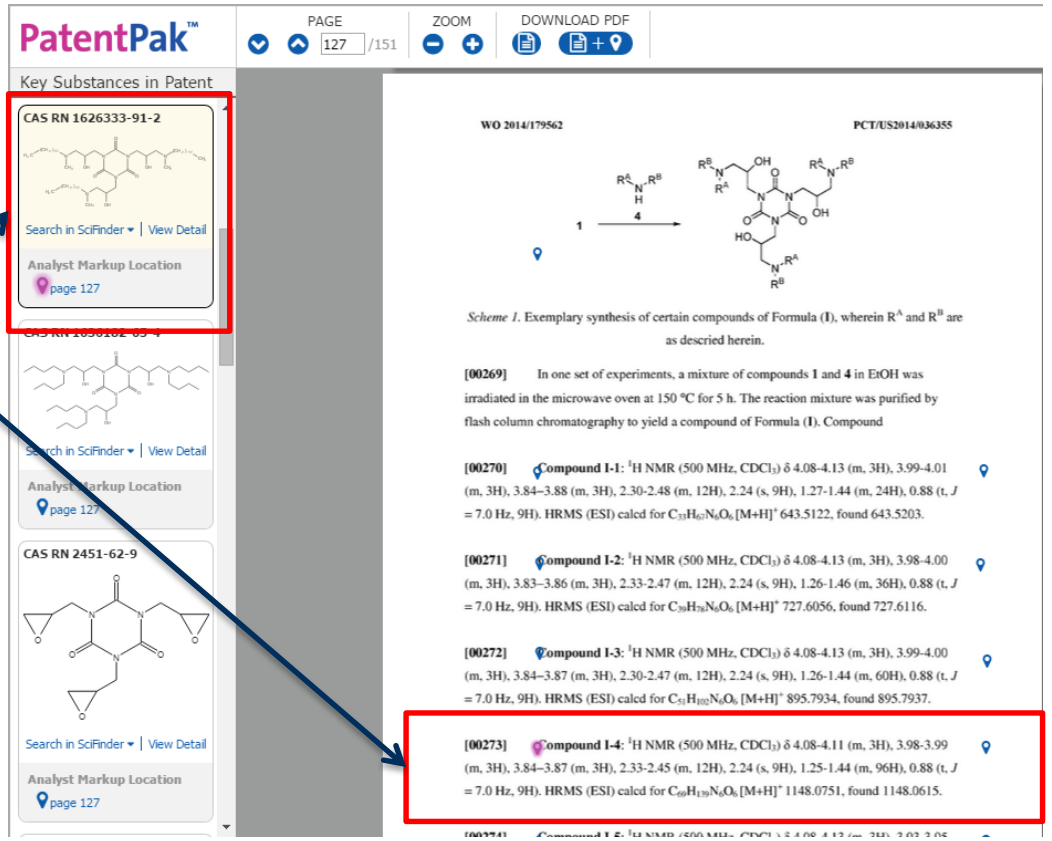
1636182-67-6P Page 128 in PatentPak

1636182-68-7P Page 128 in PatentPak

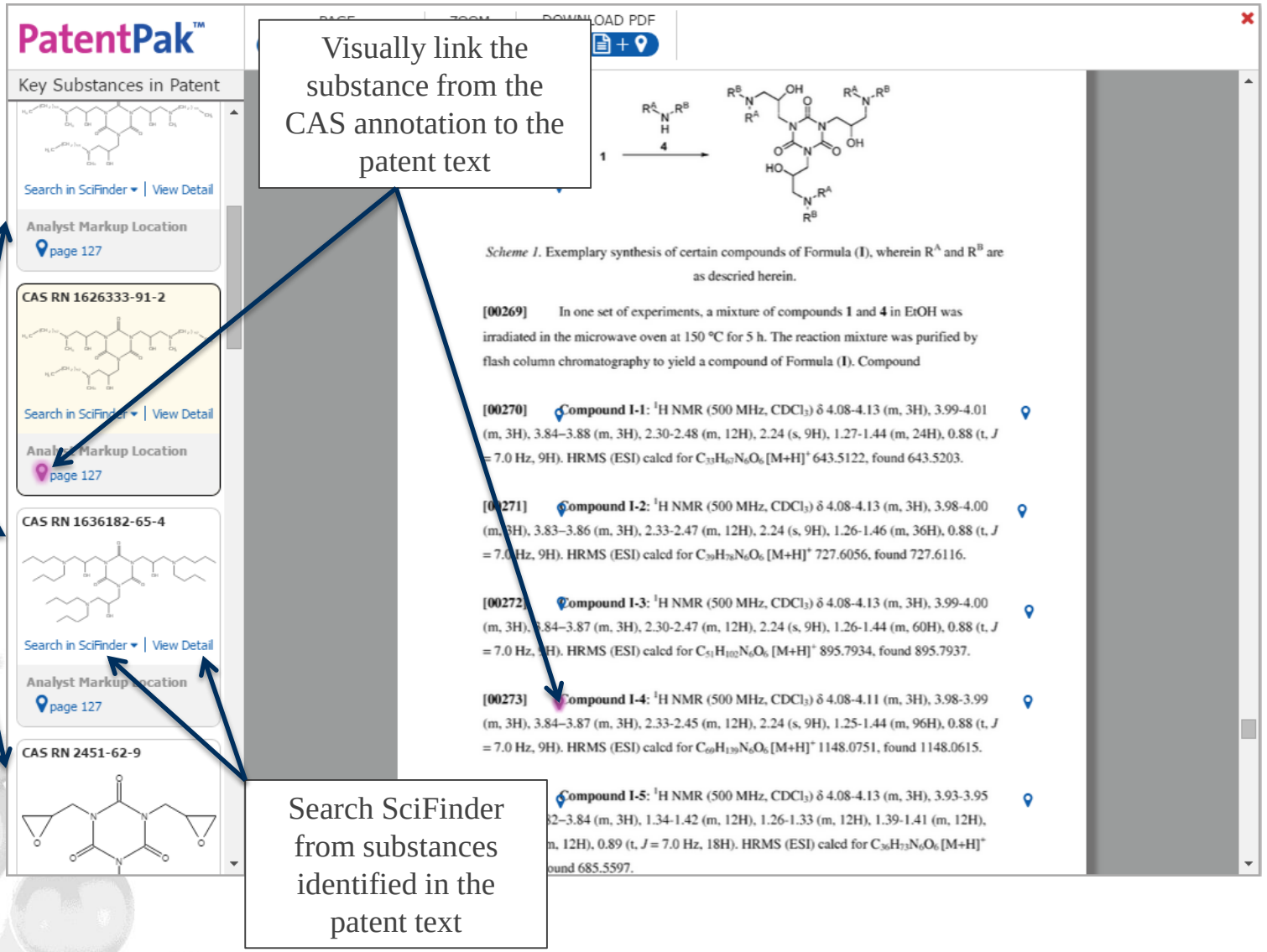
1636182-69-8P Page 128 in PatentPak

prepn. of triazinane trione derivs. and compns. thereof useful for treatment of diseases

Biological use, unclassified; Cosmetic use; Food or feed use; Other use, unclassified; Synthetic preparation; Therapeutic use; Biological study; Preparation; Uses



A unique patent viewer provides a range of powerful new navigation and exploration tools



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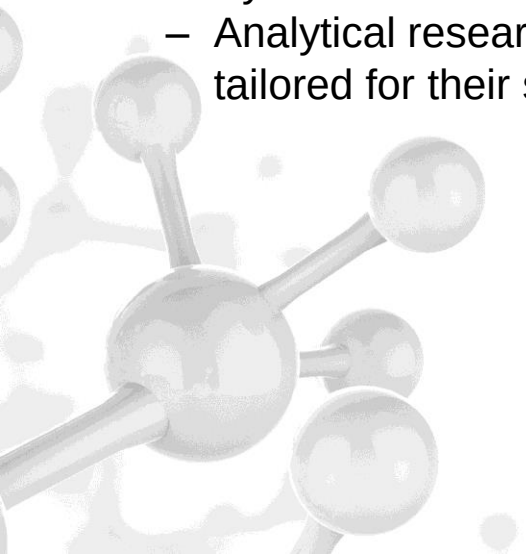
MethodsNow™ is a complete CAS solution

- Largest single collection of methods information
  - Addresses core chemistry markets
- CAS-quality indexing and new, value-add templating of key methods from important full-text sources
- Covers both synthetic and analytical researcher needs

So what exactly is MethodsNow?

- A collection of over a million synthetic and analytic methods – with more to come!
  - Focused indexing, step-by-step instruction
  - Details for analytical researchers such as matrix, analyte, instrumentation and comparison capabilities

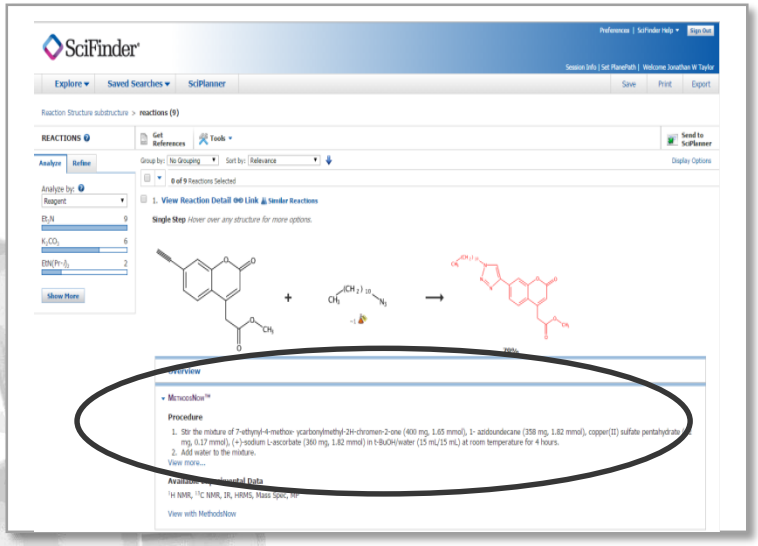
- Interface options right where the user needs them!
  - Synthetic researchers will find relevant content right inside SciFinder
  - Analytical researchers will find relevant content in a newly-designed interface tailored for their search needs



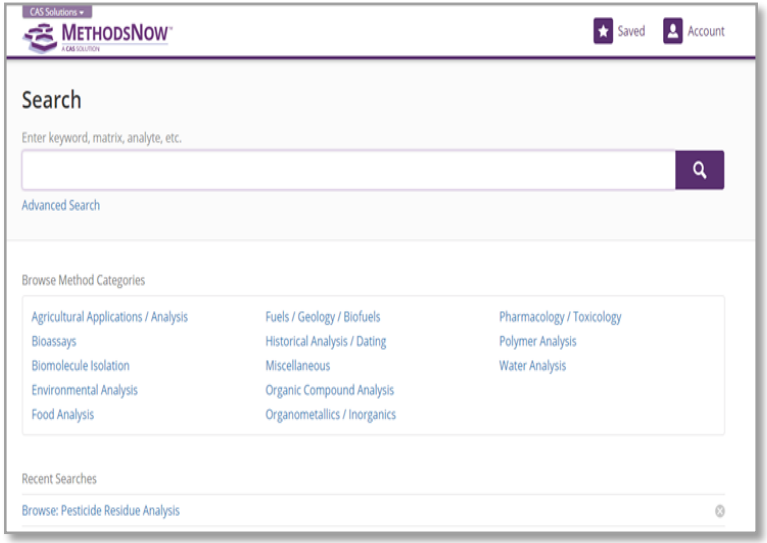
One product, two interfaces

- Research showed that users interested in synthetic methods were often already in SciFinder, but analytical scientists often weren't (though they might be familiar with it)

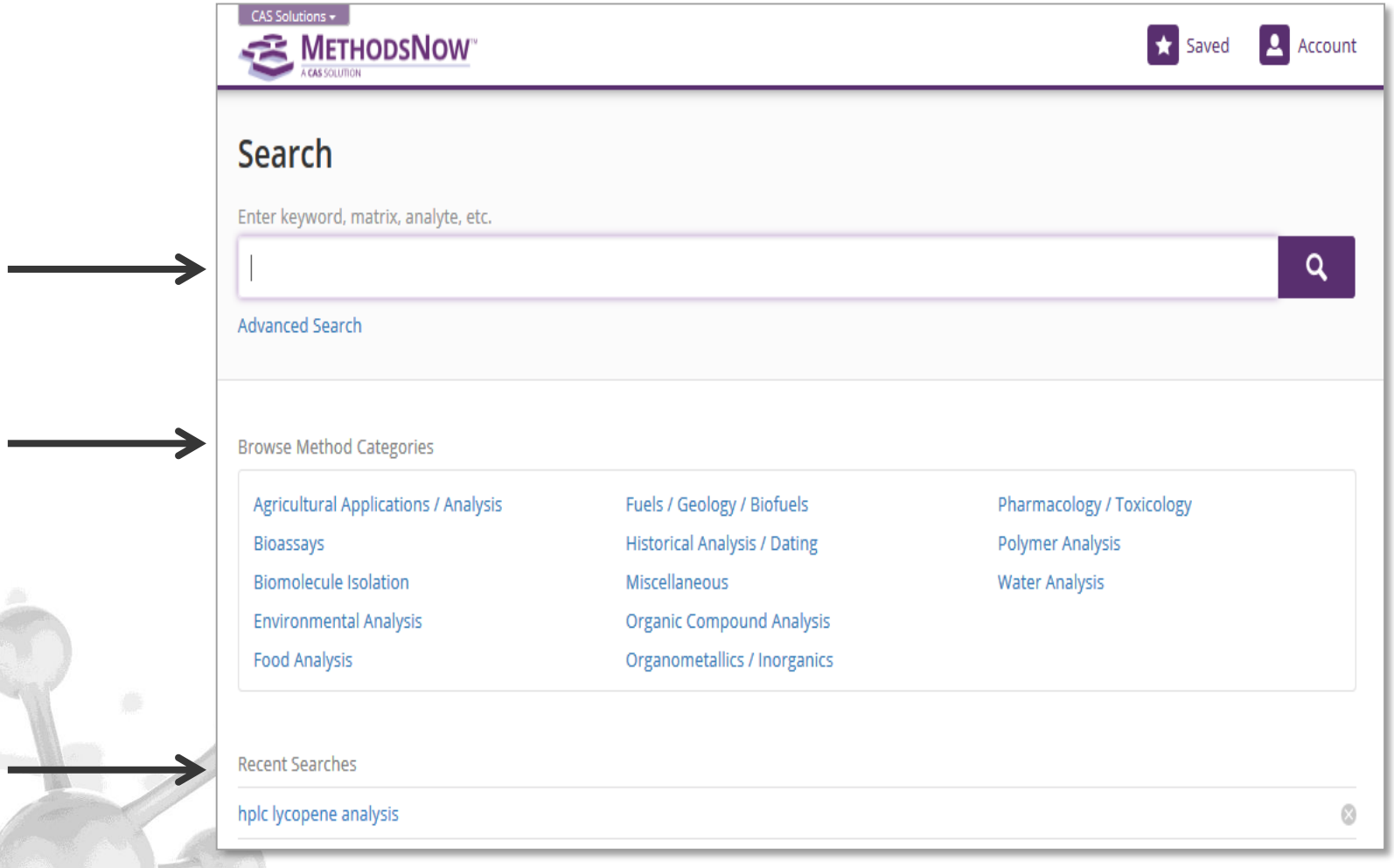
Synthetic chemist looking for great methods? They are in SciFinder.



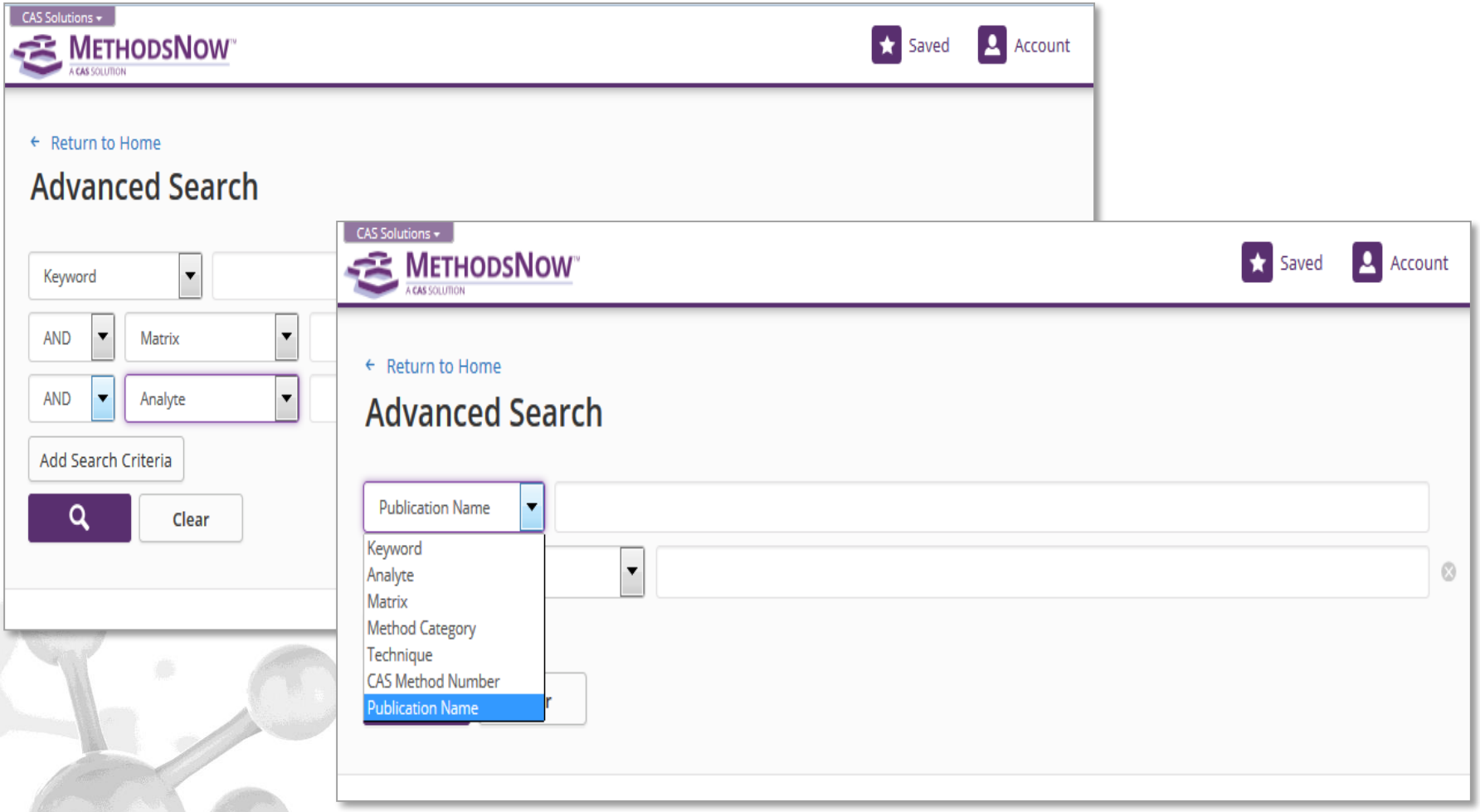
Analytical scientist just looking for great methods? A new, easy to use interface just for you.



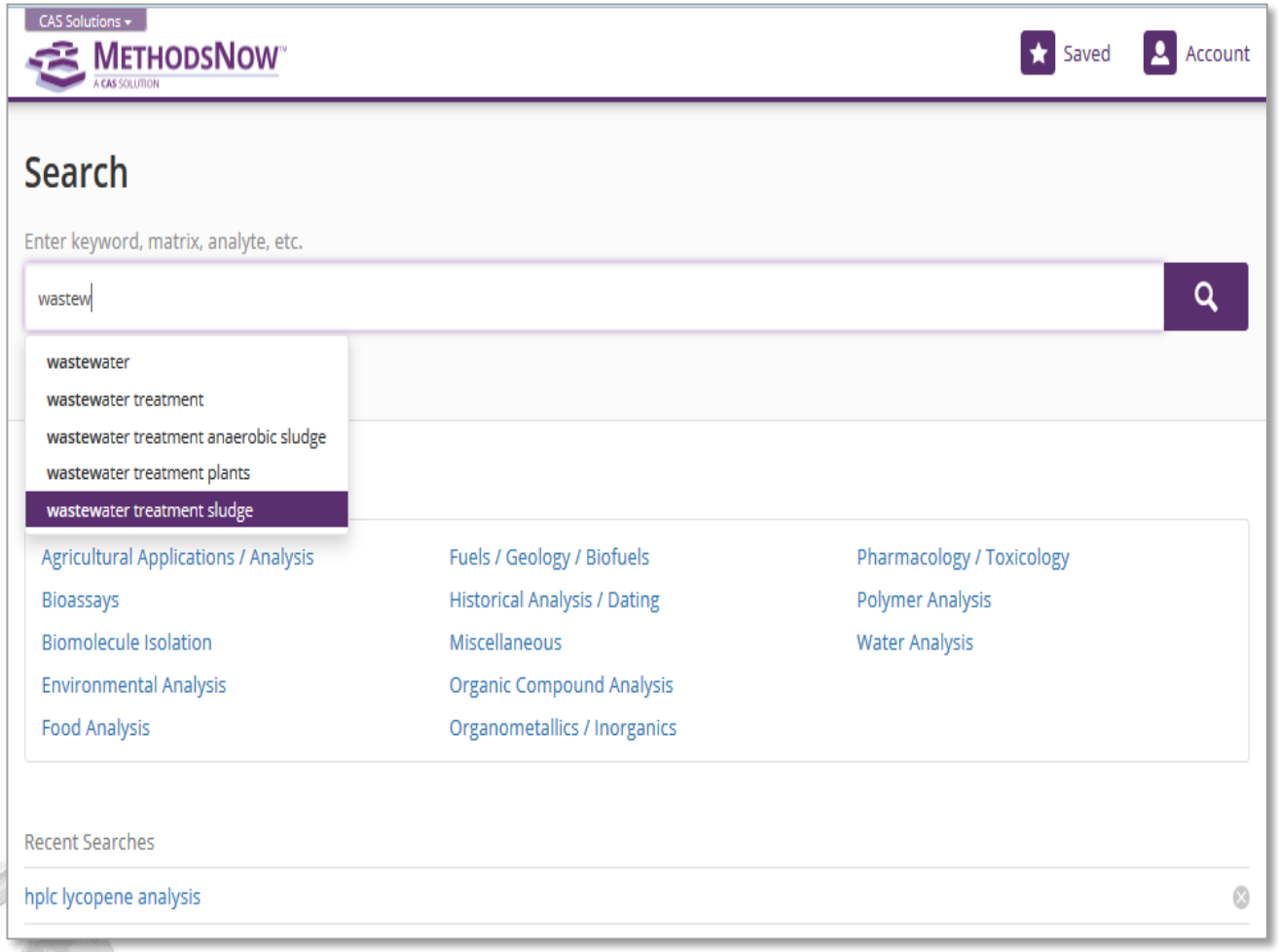
MethodsNow – Analytical Scientist Interface



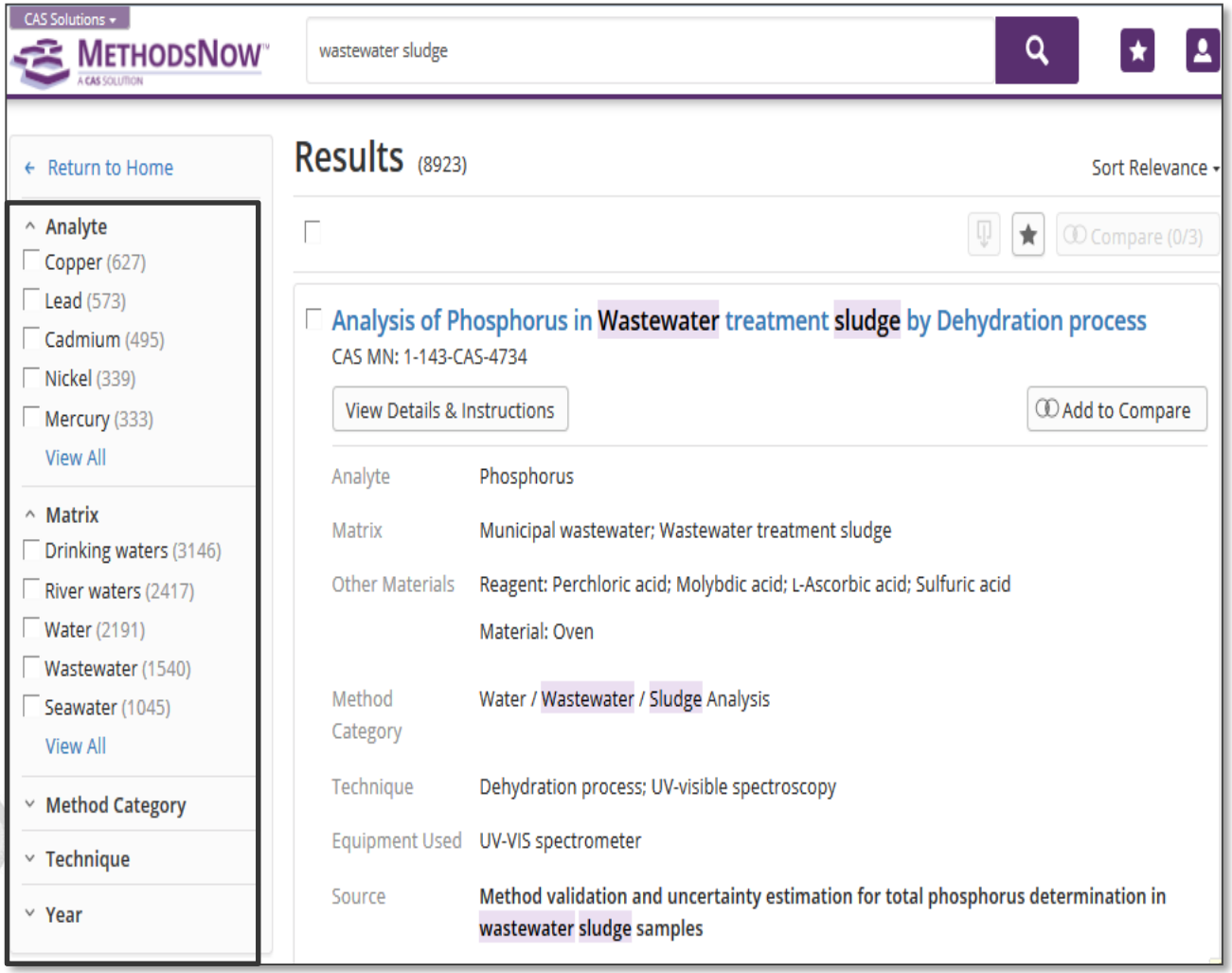
Specify one or many advanced search fields



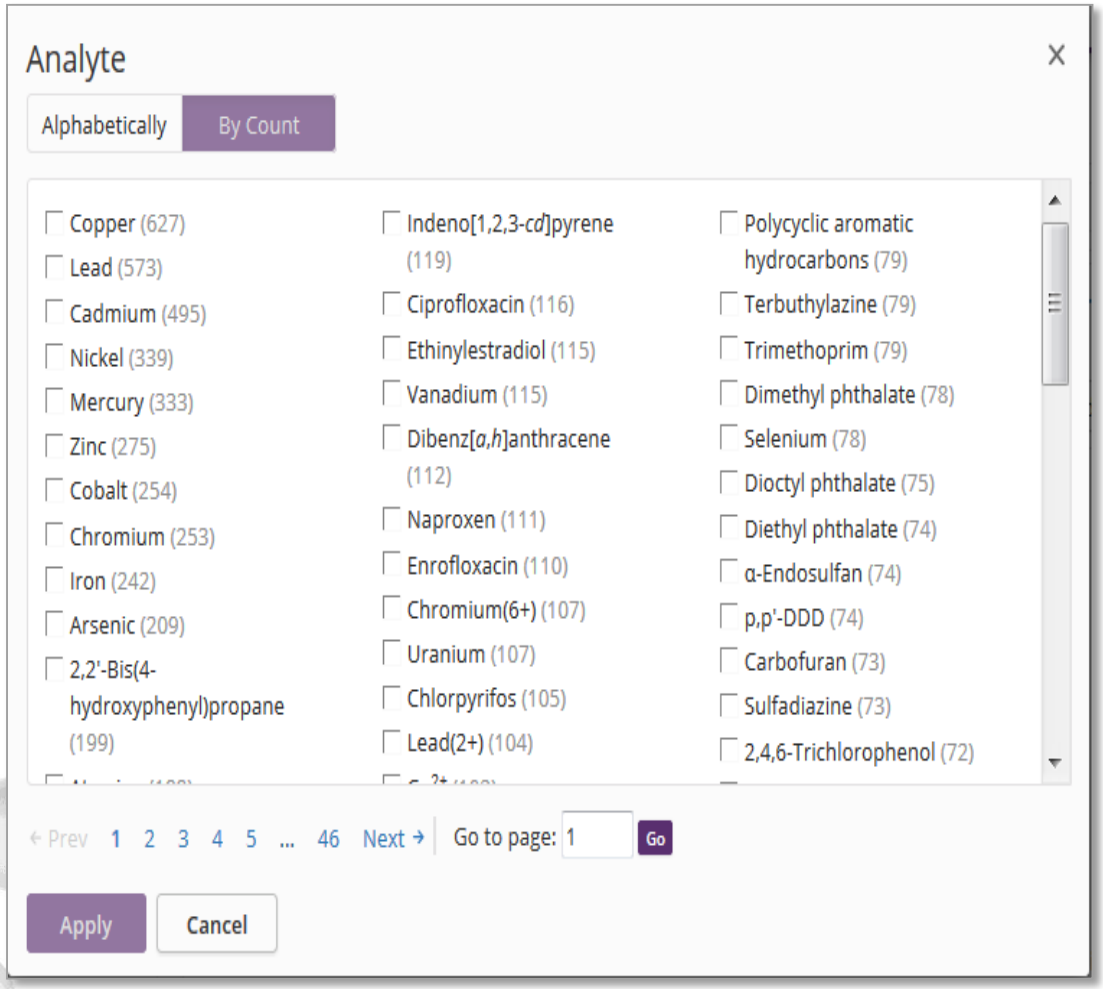
Search for wastewater sludge



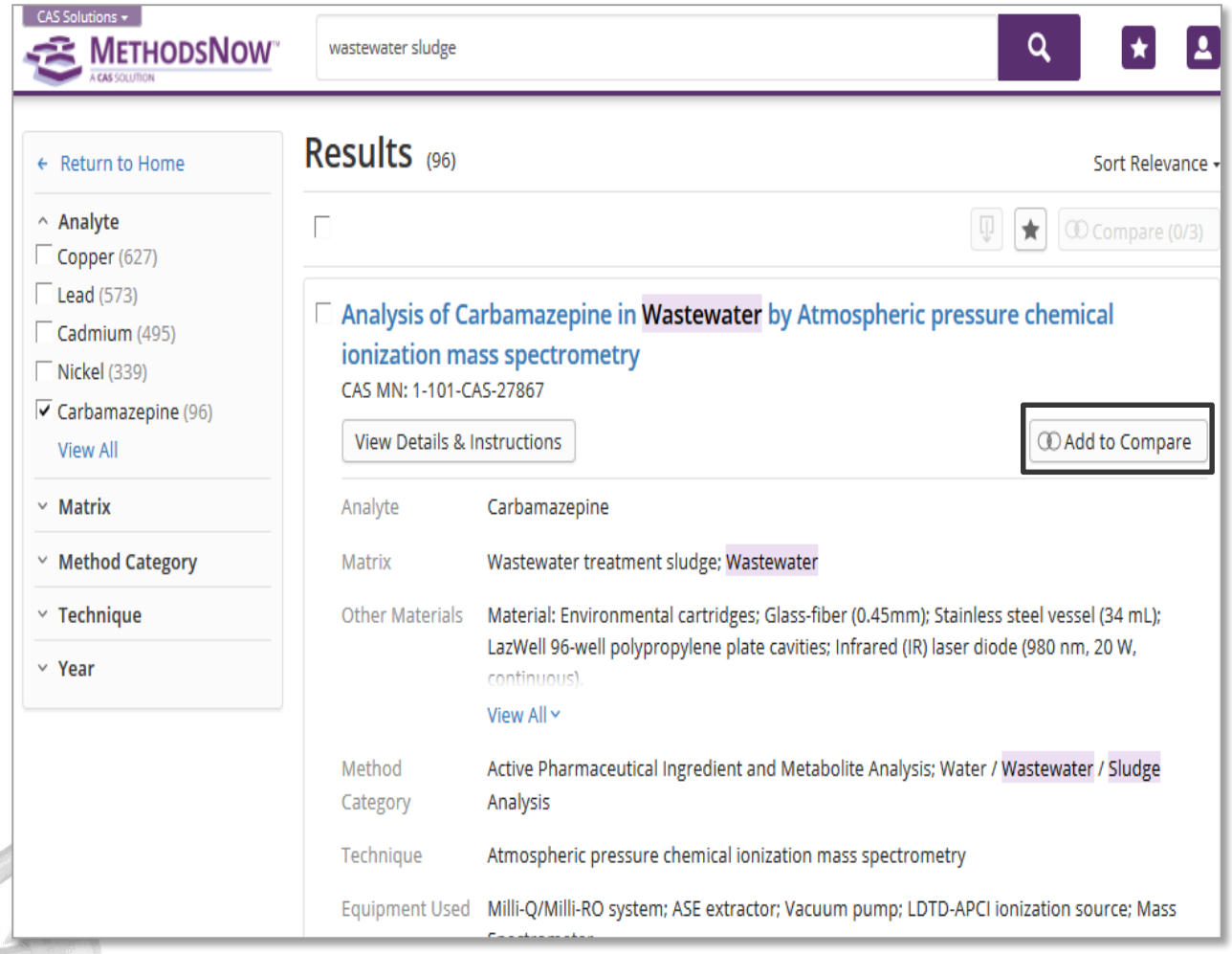
Filters allow you to quickly hone in on the most interesting results

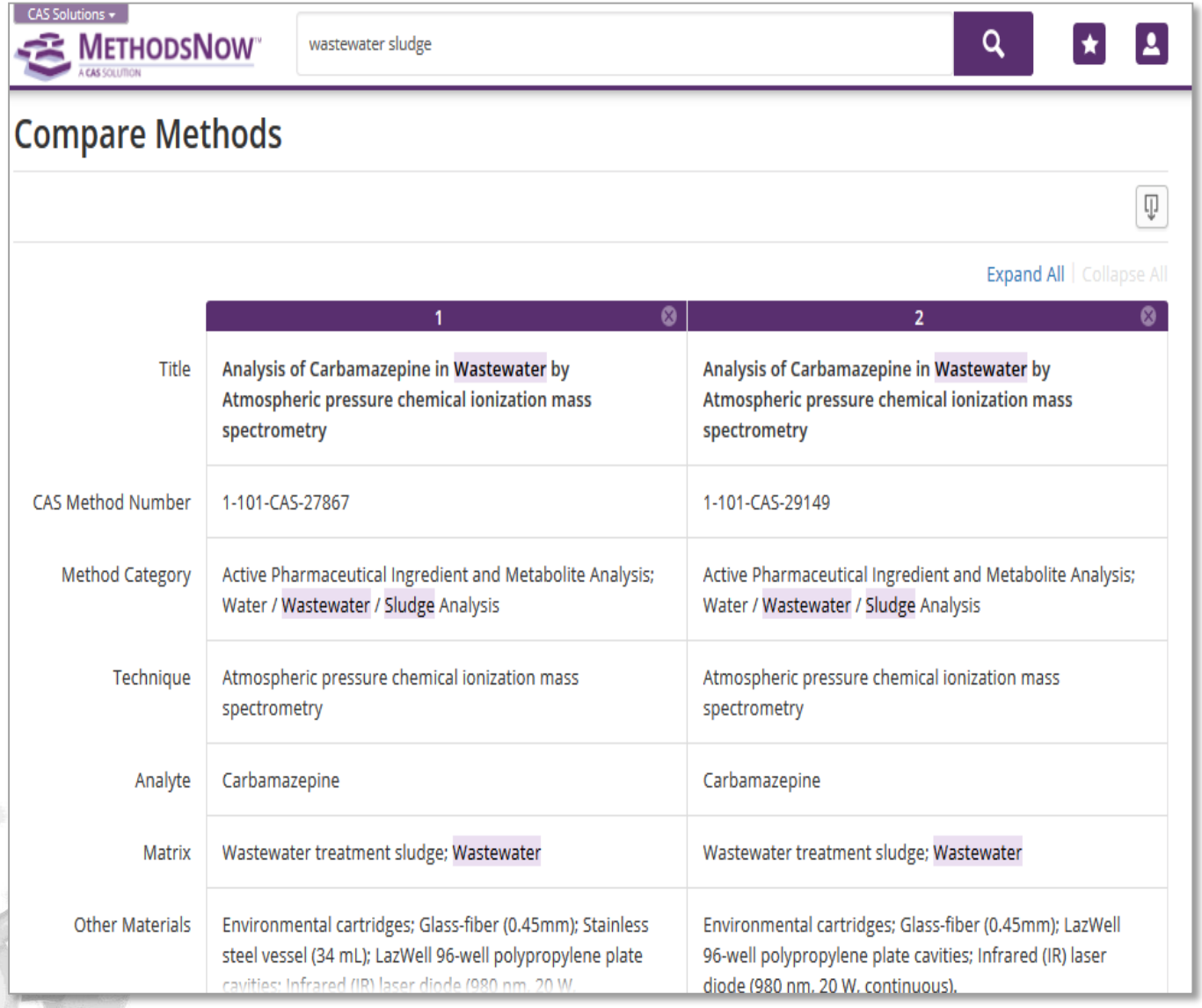


View all on analyte



Compare results of interest

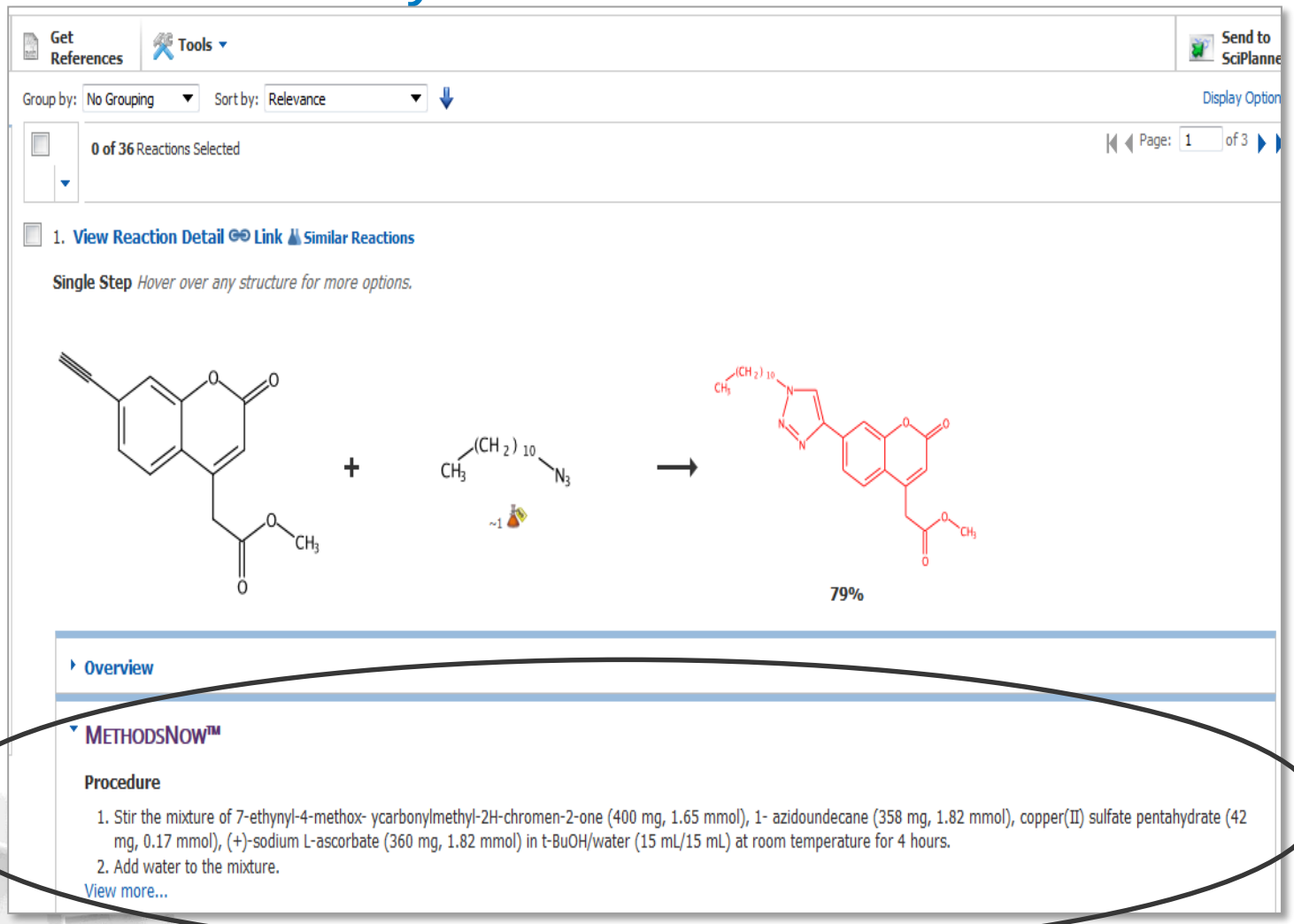



CAS Solutions
METHODSNOW
A CAS SOLUTION
wastewater sludge
Compare Methods
Expand All | Collapse All
1
2
Title
Analysis of Carbamazepine in Wastewater by Atmospheric pressure chemical ionization mass spectrometry
Analysis of Carbamazepine in Wastewater by Atmospheric pressure chemical ionization mass spectrometry
CAS Method Number
1-101-CAS-27867
1-101-CAS-29149
Method Category
Active Pharmaceutical Ingredient and Metabolite Analysis; Water / Wastewater / Sludge Analysis
Active Pharmaceutical Ingredient and Metabolite Analysis; Water / Wastewater / Sludge Analysis
Technique
Atmospheric pressure chemical ionization mass spectrometry
Atmospheric pressure chemical ionization mass spectrometry
Analyte
Carbamazepine
Carbamazepine
Matrix
Wastewater treatment sludge; Wastewater
Wastewater treatment sludge; Wastewater
Other Materials
Environmental cartridges; Glass-fiber (0.45mm); Stainless steel vessel (34 mL); LazWell 96-well polypropylene plate cavities; Infrared (IR) laser diode (980 nm, 20 W,
Environmental cartridges; Glass-fiber (0.45mm); LazWell 96-well polypropylene plate cavities; Infrared (IR) laser diode (980 nm, 20 W, continuous),

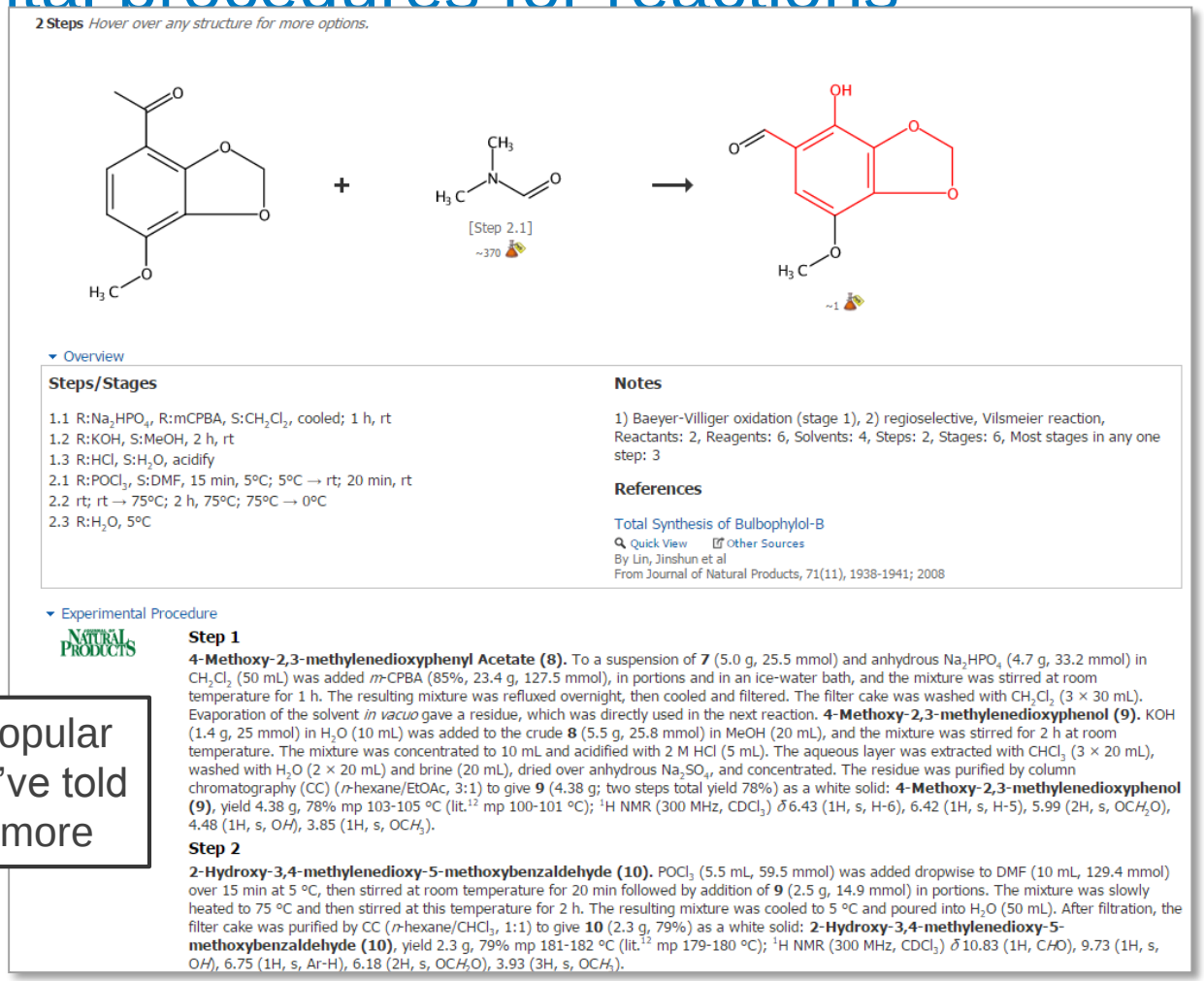
MethodsNow for analytical scientists: Great content sources

Content from years	2000 - present
Number of methods	~150,000 at launch – more than any other single source
Content Coverage	Broad range: Key focus in Pharma, Ag, and chemical as well as others
Source Focus	Full CAplus℠ database. Future investment may include regulatory agencies and instrumentation
Example journal titles	Food Chemistry, Journal of Chromatography A and B, Journal of Agricultural and Food Chemistry, Talanta, Analytica Chimica Acta
Language	English only

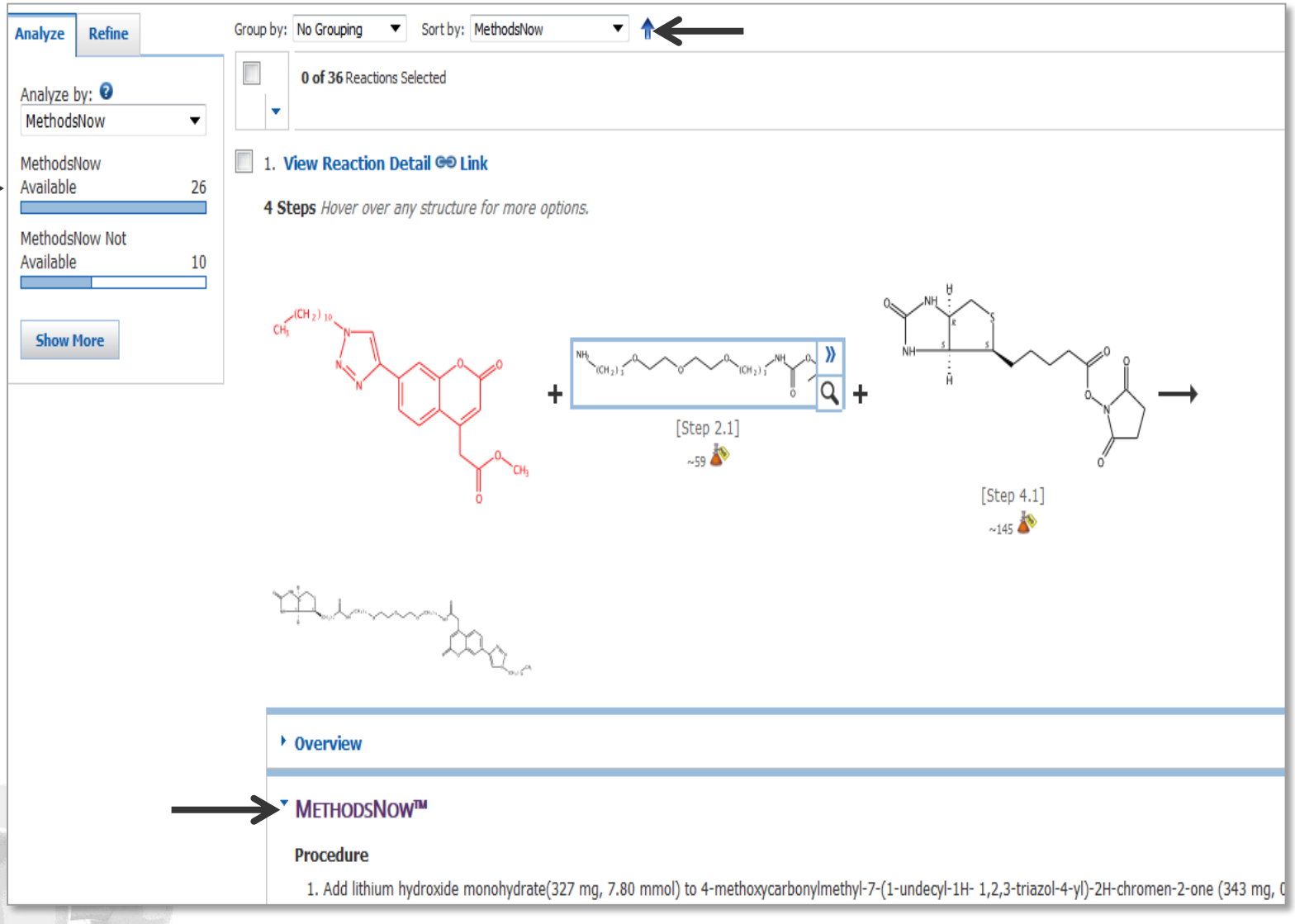
MethodsNow – Synthetic Chemist Interface



SciFinder has the largest collection of experimental procedures for reactions



It is our most popular feature, but you've told us we can do more

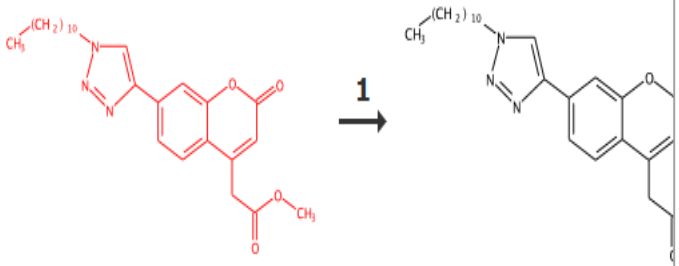

Analyze
Refine
Group by: No Grouping
Sort by: MethodsNow
Analyze by:
MethodsNow
MethodsNow Available 26
MethodsNow Not Available 10
Show More
0 of 36 Reactions Selected
1. View Reaction Detail Link
4 Steps Hover over any structure for more options.
[Step 2.1]
~59
[Step 4.1]
~145
Overview
METHODSNOW™
Procedure
1. Add lithium hydroxide monohydrate(327 mg, 7.80 mmol) to 4-methoxycarbonylmethyl-7-(1-undecyl-1H- 1,2,3-triazol-4-yl)-2H-chromen-2-one (343 mg,

MethodsNow

7-Triazolylcoumarin-based fluorescent tag system for stepwise, comparative assessment of small molecule microarrays

By Jeon, Moon-Kook; Kang, Myoung-Ku; Park, Koon Ha
From Tetrahedron, 68(30), 6038-6053; 2012
Published by Elsevier Ltd.

Reaction Steps 1 2 3 4



Products	2*H*-1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1*H*-1,2,3-tria 1384966-77-1
Reactants	2*H*-1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1*H*-1,2,3-tria 1384966-75-9
Reagents	Hydrochloric acid, CAS RN: 7647-01-0 Lithium hydroxide, CAS RN: 1310-65-2
Solvents	Water, CAS RN: 7732-18-5 Tetrahydrofuran, CAS RN: 109-99-9

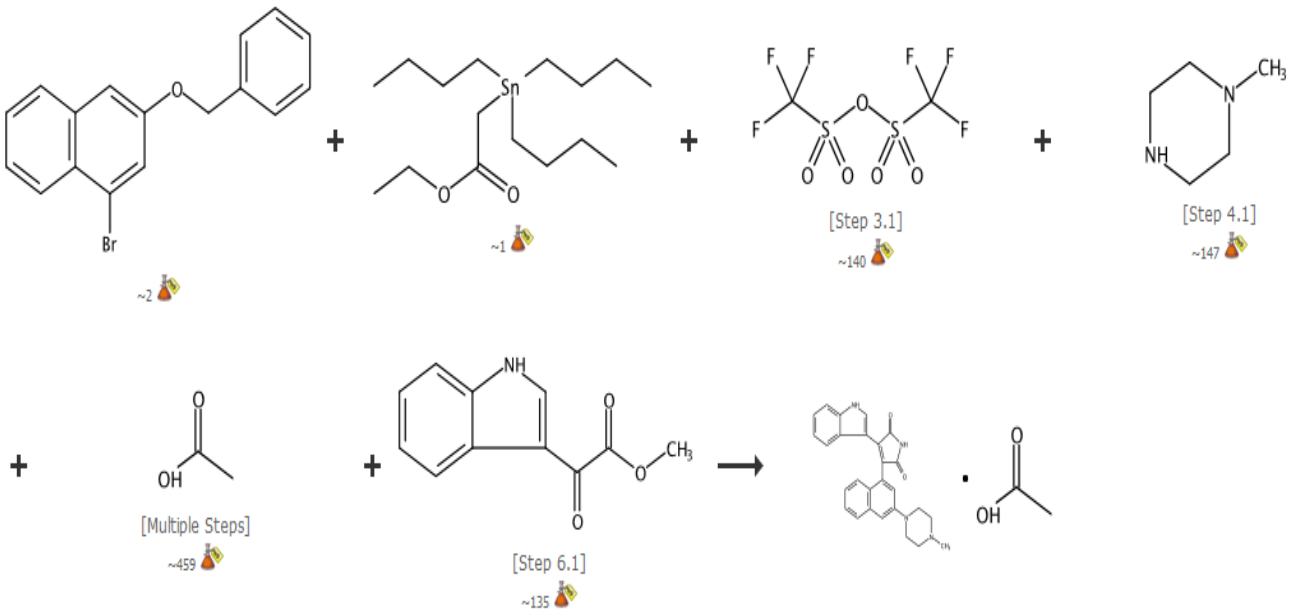
MethodsNow

Procedure	1. Add lithium hydroxide monohydrate(327 mg, 7.80 mmol) to 4-methoxycarbonylmethyl-7-(1-undecyl-1H- 1,2,3-triazol-4-yl)-2H-chromen-2-one (343 mg, 0.780 mmol) in THF/water(25 mL/25 mL) at room temperature. 2. Stir the reaction mixture for 3 hours at room temperature. 3. Adjust pH 3-4 to the reaction mixture by adding 1 N hydrochloric acid. 4. Partition the reaction mixture between ethyl acetate and water. 5. Extract the aqueous layer with ethyl acetate. 6. Dry the combined organic layer over magnesium sulfate.
Scale	milligram
^{1}H NMR	^{1}H NMR (300 MHz, acetone- d_6): δ = 7.83 (s, 1H), 8.58 (s, 1H), 7.92 (d, *J* = 8.1 Hz, 1H), 7.84 (d, *J* = 8.1 Hz, 1H), 6.47 (s, 1H), 4.50 (t, *J* = 7.2 Hz, 2H), 3.99 (s, 2H), 2.00 (quintet, *J* = 7.2 Hz, 2H), 1.32-1.43 (m, 4H), 1.22-1.32 (m, 12H), 0.87 ppm (t, *J* = 6.8 Hz, 3H).
^{13}C NMR	^{13}C NMR (125 MHz, DMF-d_7, 60 °C): δ = 161.0, 155.1, 154.2, 146.5, 136.0, 127.2, 123.7, 122.1, 120.4, 115.3, 113.5, 51.1, 32.8, 29.9, 27.3, 23.5, 18.7, 14.7 ppm (decarboxylation occurred to give the corresponding 4-methyl derivative).
IR	IR (ATR, neat): v = 3423, 2922, 2851, 1702 (2CâO, overlapped), 1619, 1561, 1375, 1154, 936, 852, 809 cm^{-1}.
HRMS	HRMS (EI): m/z calculated for $C_{24}H_{31}N_3O_4$: 425.2315 [M$^+$]; found: 425.2315.
Mass Spec	MS (ESI): m/z: 426 [M+H$^+$].
MP	235.5±0.8 °C.
CAS Method Number	3-352-CAS-78415

Print/Export Close

A reaction with experimental procedure and MethodsNow

6 Steps *Hover over any structure for more options.*



▸ **Overview**

▸ **Experimental Procedure**

▾ **METHODSNOW™**

Procedure

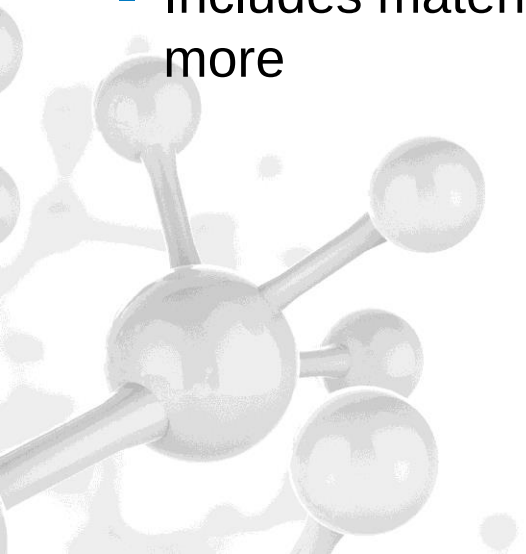
1. Dissolve 3-Benzyloxy-1-bromonaphthalene (5.64 g, 18.01 mmol) in dry DMF (100 ml) under an atmosphere of argon.
2. Add tributylstannanyl-acetic acid ethyl ester (7.47 g, 19.81 mmol) as well as [bis(tri-*ortho*-tolyl-phosphine)]palladium (II) dichloride (2.82 g, 2.60 mmol) and zinc(II) bromide (5.27

MethodsNow synthetic chemistry content sources

Content from years	2000 - present
Number of protocols	>1 million at launch; 2 million within months; 3 million later this year
Content Coverage	Small molecule synthesis
Source Focus	180+ journals titles including new coverage from Wiley, RSC and Elsevier in addition to ACS, Springer, Taylor&Francis, WO patents (2010-present)
Example journal titles	Organic Letters, Catalysis Letters, Journal of Coordination Chemistry, Journal of Medicinal Chemistry, Journal of the American Chemical Society, Angewandte Chemie, Tetrahedron, Chemical Science
Language	English only

MethodsNow Benefits

- Readily integrates into your workflow
- Lets you quickly compare analytical methods side by side
- Saves time with easy searching and direct access to method details – no more searching through full-text documents
- Displays experimental details in easy-to-read table format
- Includes materials, instrumentation, validation data, conditions and more



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    - Structures and keywords are searchable
    - German abstracts can be displayed and printed
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- Priced analogous to other historical archives

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1. Members of Chinese Chemical Society Located in Taipei or ACS Taiwan Chapter are eligible to apply.
2. Only one time trial for a member.
3. The trial quota is limited and the applicant needs to be evaluated by CAS. In addition, these conditions can be changed once it not right for our purpose.

Please fill out the form and send to Taiwan@acsi.info. If qualified, we will send you a ID&Password in 3 days. Please notice: The trial is continuously 7 days including weekend.

Remote Access ID Application Form	
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Organization Name:	
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Contact (Full name):	
Title:	
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SciFinder Experience: (Y/N)	
The purpose of the trial	

Contact Details

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