



Unique One-Stop Access to a Multitude of Chemical Safety Resources

Presented by:

Abe Lederman, Founder and CEO
Deep Web Technologies, Inc.
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Division of Chemical Health and Safety



About Deep Web Technologies...

- •Founded in 2002
- A pioneer in federated search
- "Blue Chip" customers include: BASF, Science.gov, and WorldWideScience.org.

We connect information seekers with custom, sophisticated, real-time discovery solutions based on Explorit Everywhere!™.







WARNING!

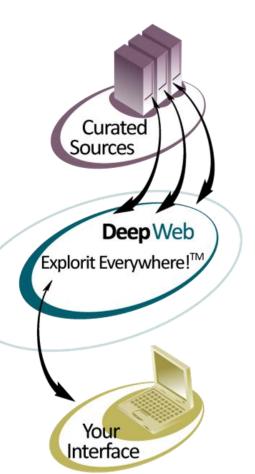


I AM NOT A CHEMIST



What is "Federated Search"?

A <u>single-search</u> interface to <u>quickly</u> find <u>relevant</u>, <u>real-time</u> information from the <u>sources you select</u> that your researchers require to find the right information in a timely manner.





Federated Search, Another Look

A Gateway to All your chemical safety resource





Chemical Safety Gateways

- Begun development of Stanford Gateway in Fall 2015 in collaboration with Grace Baysinger, Chemistry and Chemical Engineering Librarian at Stanford University
- Stanford Gateway provides access to 70+ databases, both publicly available and available via subscription
- DWT Gateway is publicly available and provides access to 45 publicly searchable sources
- DWT Gateway is available at: http://chemistrygateway.com/chemsafety



Unique Chem Safety Gateway Developed in Collaboration with Stanford University Libraries

Posted on: 08-29-2016 abe

Abe's Note:



Bibliographer of the Swain Chemistry and Chemical Engineering Library at Stanford University, to develop a unique research gateway focused on chemical safety.

My relationship with Grace goes back two decades when I developed SciSearch@LANL, a precursor to Web of Science for Los Alamos National Laboratory and Grace was our customer representative at Stanford.

More recently we have worked closely with Grace on development of xSearch (Stanford's name for Explorit Everywhere!, our largest federated search imple mentation.

I have asked Grace to give us an overview of this important chemical safety resource that we have developed together.



Read It!

Photo credit: Kenneth Chan

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Chemical safety research portal available

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Chemists need a wide array of information before doing experimental work in the lab. To help them find chemical safety information they need more effectively and efficiently, a Chemical Safety Portal was created that searches multiple resources at one time.

Developed in collaboration with Deep Web Technologies, this search site includes 60+ resources.

While safety data resources and safety data sheets form the core of the collection, eBooks and eJournals are full-text searchable, allowing researchers to find data in reference books or methods and protocols in journal articles. Citation databases are also included to help find articles and syntheses and reaction databases, most that contain curated information, are also included to help users locate experimental conditions and methods. Websites from EH&S units at other campuses plus information form the ACS Division of Chemical Health and Safety and the U.S. Chemical Safety Board will help users find information such as training materials, standard operating procedures, and lessons learned. A list of resources in our chemical safety portal are listed below:

 Safety Data Resources: ACToR (Aggregated Computational Toxicology) Resource), CAMEO Chemicals, Canadian Centre for Occupational Health and Safety (Web Information Service), ChemHAT.org, Chemical Safety Database, ChemID Plus Advanced, e-EROS: Encyclopedia of Reagents for Organic Synthesis - Chemical Name, Emergency Response Safety and Health Database, Hazardous Substances Data Bank, INCHEM,



Grace Baysinger

Chemistry and Chemical Engineering Librarian



graceb@stanford.edu



(650) 725-1039

Recent posts

Mnova workshops on Friday, 24 June 2016

Posted in Stanford Libraries Blog

Swain Library news - 22 April 2016 Posted in Stanford Libraries Blog

Swain Library News - 1 Feb 2016 Posted in Stanford Libraries Blog

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Chem of Materials

Between the sheets: Postsynthetic

transformations in #perovskites

MAR 8 2017

POSTED IN: ANNOUNCEMENTS, AWARDS, IN THE NEWS

Stanford's Department of Chemistry and Department of Environmental Health and Safety (EH&S) have been selected to receive the 2017 SafetyStratus College and University Health and Safety Award from the American Chemical Society (ACS) Division of Chemical Health and Safety (CHAS).



Presented to a comprehensive lab safety program at an institution of higher education, the SafetyStratus Award recognizes Stanford for "establishing, promoting and sustaining an outstanding undergraduate chemical safety program."

"The award demonstrates the effectiveness of ongoing collaboration between the academic teaching and research programs and the environmental health and safety programs at Stanford," said Larry Gibbs, Associate Vice Provost for Stanford EH&S.

The 2017 CHAS SafetyStratus Award will be presented on August 20, 2017 at the fall meeting of the American Chemical Society In Washington, D.C. Representatives from the Department of Chemistry and EH&S will attend the awards ceremony to accept the honor on behalf of Stanford.

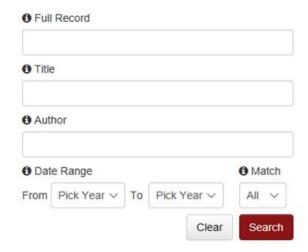
"The Department of Chemistry is honored and proud to receive this award with EHRS in recognition of our shared commitment to

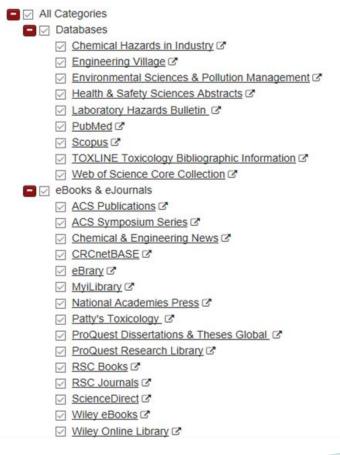
Sources Federated at Stanford's Gateway

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Stanford University

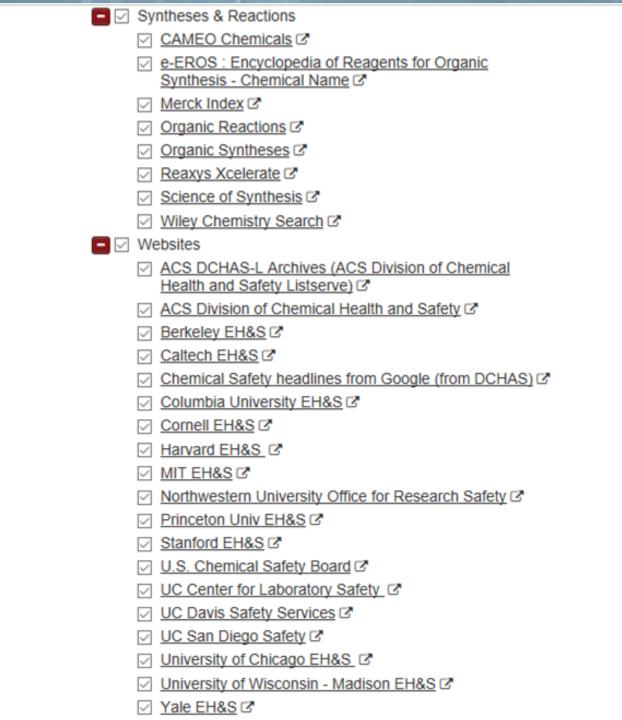
ENVIRONMENTAL HEALTH & SAFETY STANFORD UNIVERSITY LIBRARIES



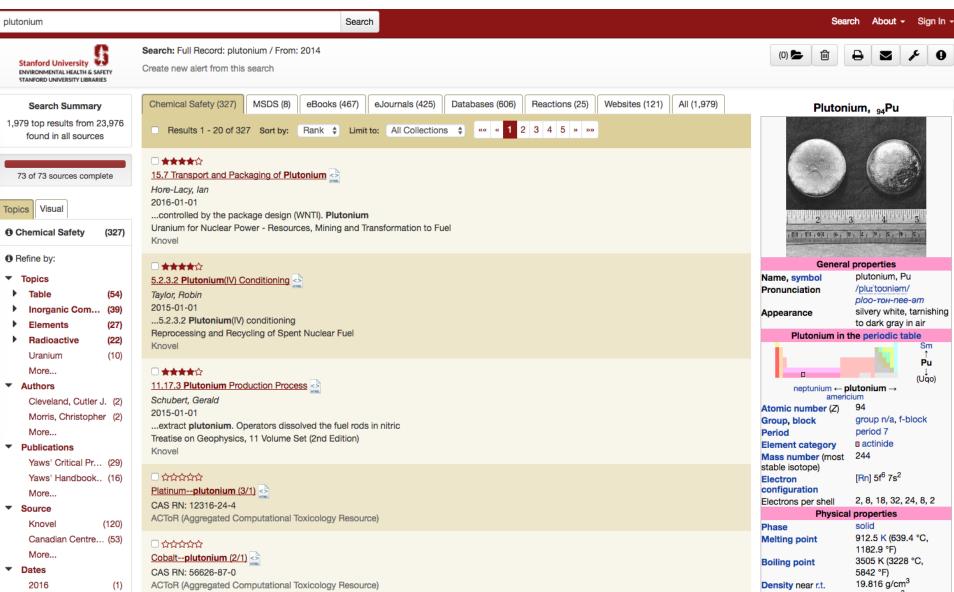




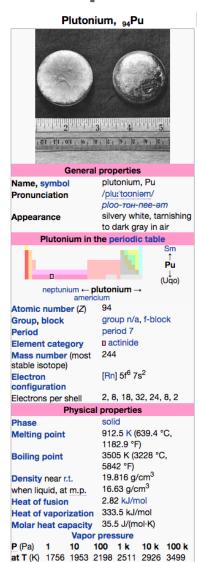
MSDS
✓ Fisher Scientific SDS Search ✓
✓ Matheson Tri-Gas SDS Database ✓
✓ MSDS (CCOHS) ✓ MSDS (CCOHS)
✓ MSDSonline ✓
Safety Data
☑ ACToR (Aggregated Computational Toxicology Resource) ☑
✓ CAMEO Chemicals ✓
☑ ChemHAT.org ☑
e-EROS : Encyclopedia of Reagents for Organic Synthesis - Chemical Name
Emergency Response Safety and Health Database
☑ Hazardous Substances Data Bank ☑
✓ INCHEM ☑
✓ International Chemical Safety Cards (ICSC) database
✓ Knovel ✓
☑ NIOSH Pocket Guide to Chemical Hazards ☑
OSHA Occupational Chemical Database
Sax's Dangerous Properties of Industrial Materials
Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens



Chem Safety Results Page

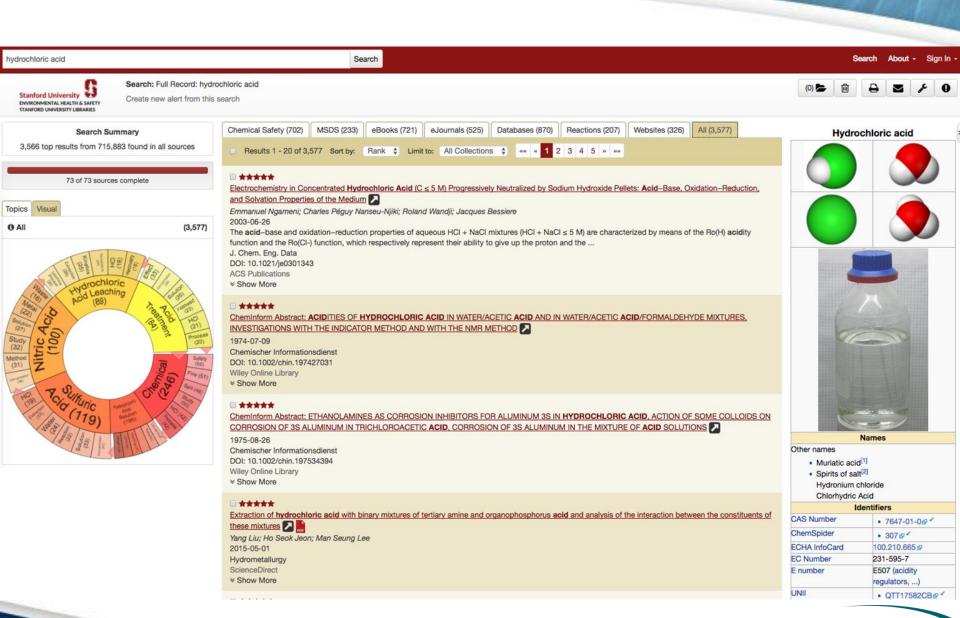


Wikipedia ChemBox



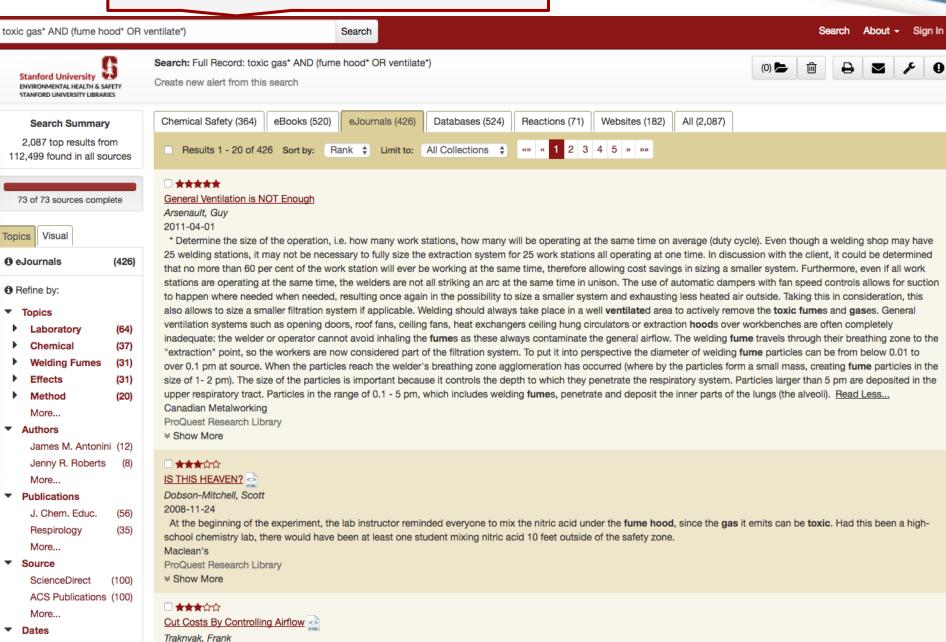


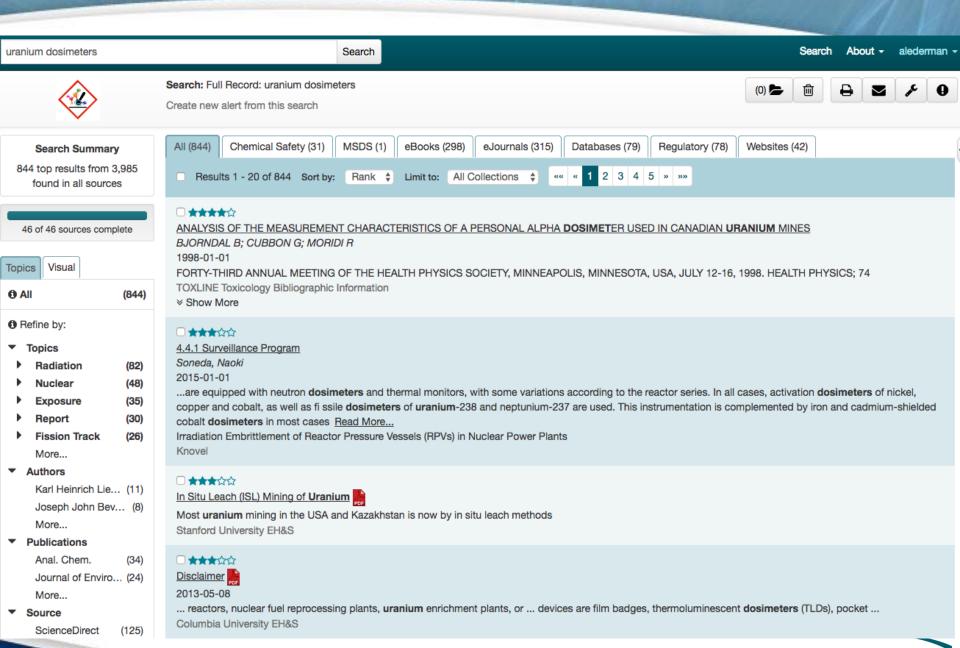




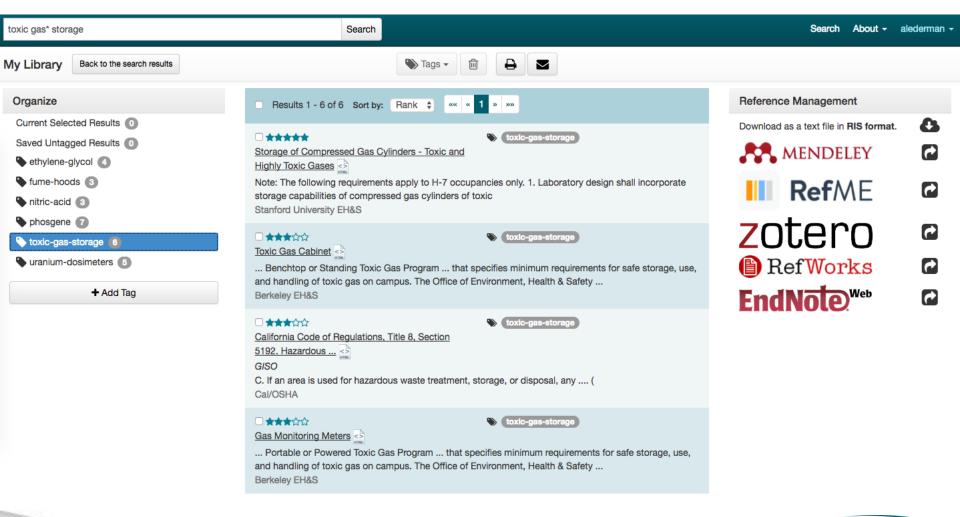


toxic gas* AND (fume hood* OR ventilate*)





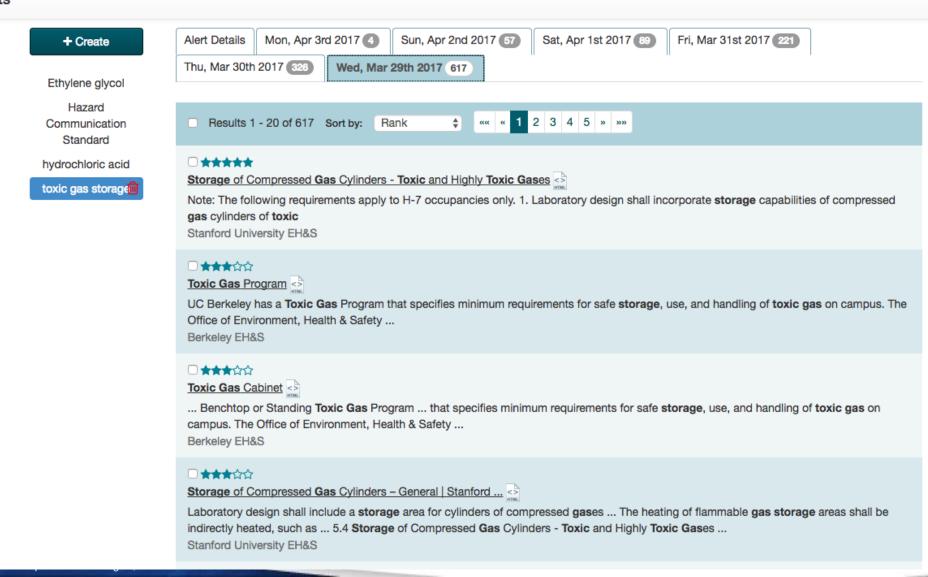
My Library Page





Alerts

Alerts



What's in the Future?

- Aggregate from various sites
 - Lessons learned
 - Standard operating procedures
 - Training videos

Provide a guided search



Grace's Wishlist

- Add some individual resources
 - Laboratory Chemical Safety Summary Sheets
 - Bretherick's Handbook of Reactive Chemical Hazards, 8th edition
 - CEN Safety Zone Chem Safety Resources and Lessons Learned
- Add methods and protocol resources
- Add resources used by undergraduates and teaching labs as a separate category on the search page



It Takes A Village...

- Chemists
- EH&S Experts
- Librarians
- and last but not least Software Experts...





We Want To Hear From You!

- Looking for feedback on how to improve Gateway, including suggestions for sources to add.
- Do you want a customized version of the Gateway for your organization?
- Would you be interested in sponsoring the public Chemical Safety Gateway?



Thank you!

Questions?

Please email me:

Abe Lederman abe@deepwebtech.com

