



Profile Building and Research Sharing using Social Media Tools for Scientists



Antony Williams Center for Computational Toxicology and Exposure

UNC Chapel Hill Webinar



This will be of interest if...

- You write scientific articles/reports and wish to
 - Accelerate dissemination
 - -Gather "alternative metrics" for usage of the work
 - Deliver access to the associated data
 - Associate the work with your public profile(s)
- These approaches are of use at any stage of your career but especially early career scientists
- One caveat is PERMISSION



Feel free to take notes but...

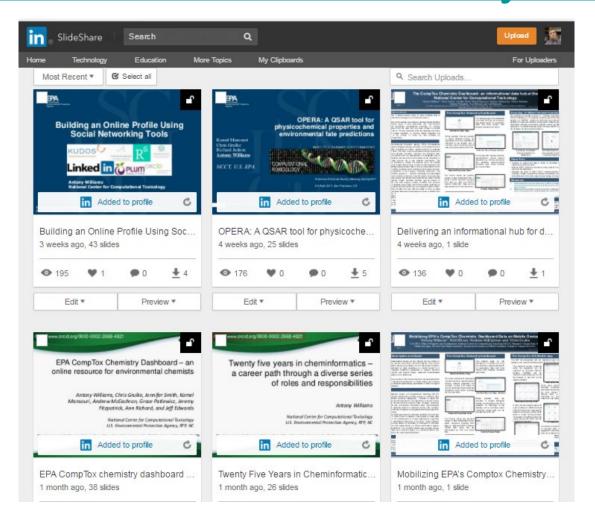
All slides will be made available later

Contact me directly if I can help – williams.antony@epa.gov



Various Versions of This Talk

www.slideshare.net/AntonyWilliams





A related publication...



F1000Research 2017, 6:1315 Last updated: 19 DEC 2018



OPINION ARTICLE

The new alchemy: Online networking, data sharing and research activity distribution tools for scientists [version 1; referees: 2 approved, 1 approved with reservations]

Antony J. Williams ¹, Lou Peck ², Sean Ekins ³

¹National Center for Computational Toxicology, Environmental Protection Agency, Durham, NC, 27711, USA

²Lou Peck Consulting, Swansea, SA4 3JQ, UK

³Collaborations Pharmaceuticals, Inc., Raleigh, NC, 27606, USA



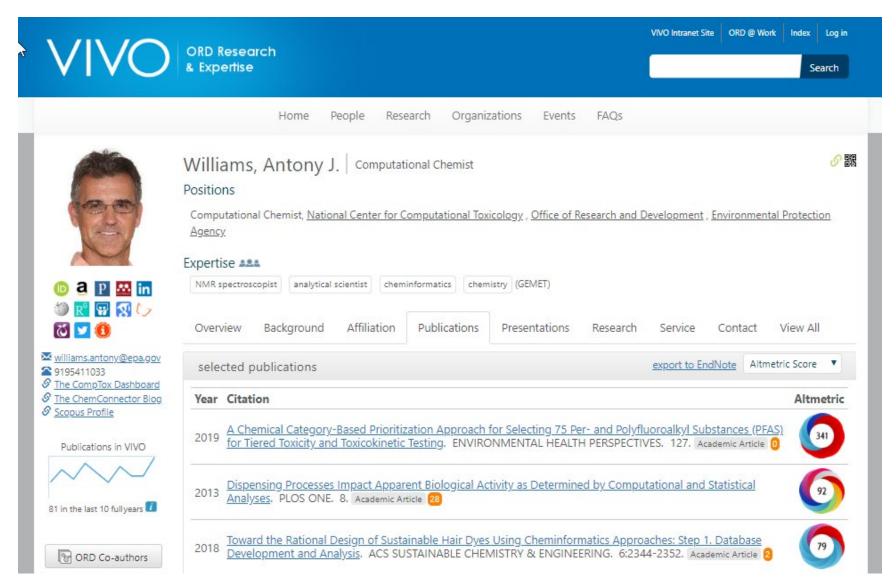
Some Questions for you...

Consider for yourself...

- How many of you have an ORCID?
- How many of you have LinkedIn?
- How many of you have SlideShare?
- How many of you have published >3 papers?
- How many of you share your work online?



Do you have VIVO at UNC?





Who markets your work??? If not you, then who?

•"It's not the job of researchers to become experts in public relations — that's why universities have press offices, says Matt Shipman, research communications lead at North Carolina State University in Raleigh. But he recommends scientists toot their own horns as well."

http://www.nature.com/news/kudos-promises-to-help-scientists-promote-their-papers-to-new-audiences-1.20346



My Hopes for Today

- Encourage you in the "era of participation"
- Provide an overview of some tools available
- Share some stories, statistics and strategies
- Encourage you to "share for the sake of community/science as well as for yourself"

OUTCOMES

- You will claim an ORCiD
- You will invest ~2 hours per month on your profile
- You have a bigger "Impact" online....



ORCID – The Scientists SSN



Connecting Research and Researchers

Antony Williams

ORCID ID



orcid.org/0000-0002-2668-4821



What's the value of ORCID?

ORCIDs are now expected for many publications

 Single click through to your ORCID page – how rich is your ORCID biography??? See

https://orcid.org/0000-0002-2668-4821



Publishers Requiring ORCIDs...

https://orcid.org/content/mandating-orcid-publication-workflows-open-letter

Requiring ORCID in Publication Workflows: Open Letter

Major publishers have committed to requiring ORCID iDs in the publishing process for their journals and invite other publishers to do the same.

In November, 2015, a group of publishers asked ORCID to help facilitate communications about their plans to require authors to use an ORCID iD, including hosting this open letter explaining their rationale, developing best practices for using iDs in publishing, and maintaining the signatory list. The publishers' goal is to encourage others to join them in supporting the adoption of ORCID. Publishers signing this open letter are committing to requiring ORCID iDs during 2016 following specific implementation standards.



Search ORCIDs

Comparing ORCIDs that are used with those that aren't...

My ORCID: 0000-0002-2668-4821



It's a Scientists SSN – use it in various places



About 704 results (0.27 seconds)

Antony Williams (0000-0002-2668-4821) - ORCID | Connecting ...

https://orcid.org/0000-0002-2668-4821 ▼

Antony (Tony) J. Williams received his BSc in 1985 from the University of Liverpool (UK) and PhD in 1988 from the University of London (UK). His PhD research ...

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B Lam, A Baer, M Alaee, B Lefebvre, A Moser, A Williams, AJ Simpson. Environmental science & technology 41 (24), 8240-8247, 2007. 155, 2007. Smart phones ...

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Antony Williams - Academic Karma

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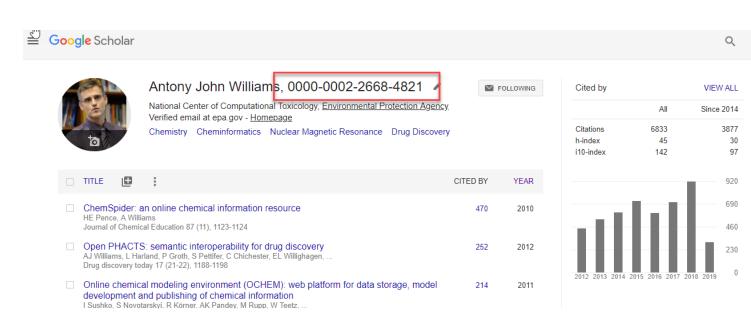
0000-0002-2668-4821. Keywords: nmr. chemistry. chemspider.

computer_assisted_structure_elucidation. cheminformatics. systematic_naming. open_data.



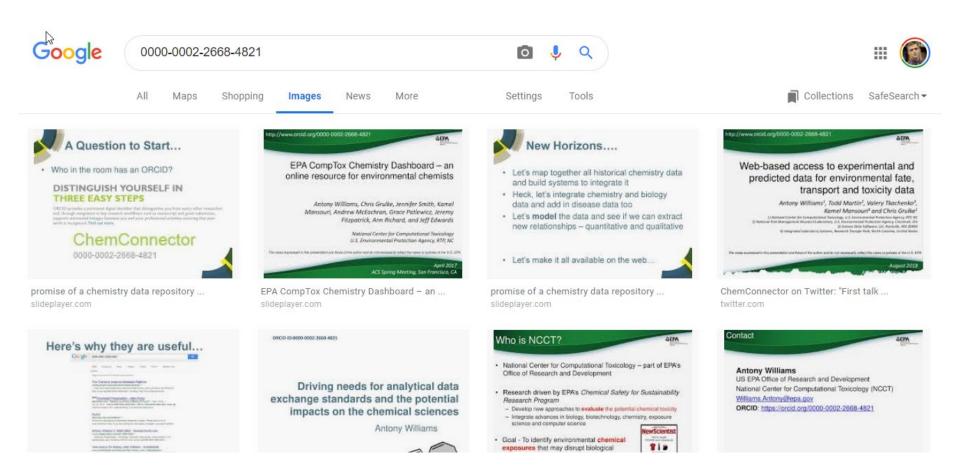
Use ORCID on all products

- Use your ORCID on everything you produce that will be indexed:
 - –Presentations
 - -Posters
 - –Your profiles





Google will index all of your works...even if ORCID doesn't





Think about it...

- 100s if not 1000s of hours of research behind a paper.
 How much work is the PUBLISHER going to do to make sure people find out about your article?? How do you find out about an article???
- Shouldn't YOU and your CO-AUTHORS invest some time in getting it out to the network???
- A presentation given to a small room of people has a lifetime of "20-30 mins". A presentation shared online for all to see lives a lot longer. An article shared in the network has a much wider audience.

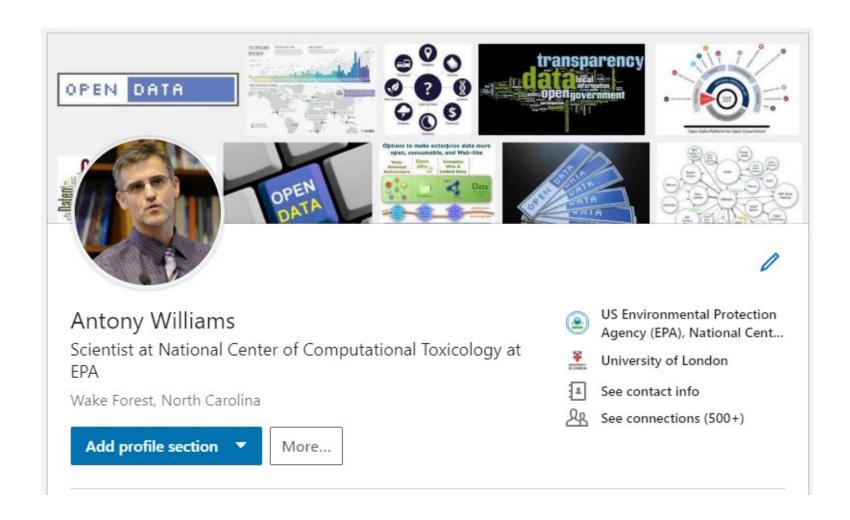


Scientists are Evaluated: "Statistics"

- Research datasets
- Scientific software
- Publications peer-reviewed and many others
- Posters and presentations at conferences
- Electronic theses and dissertations
- Performances in film and audio
- Other forms of research
- CAVEAT: Make sure you are allowed to share

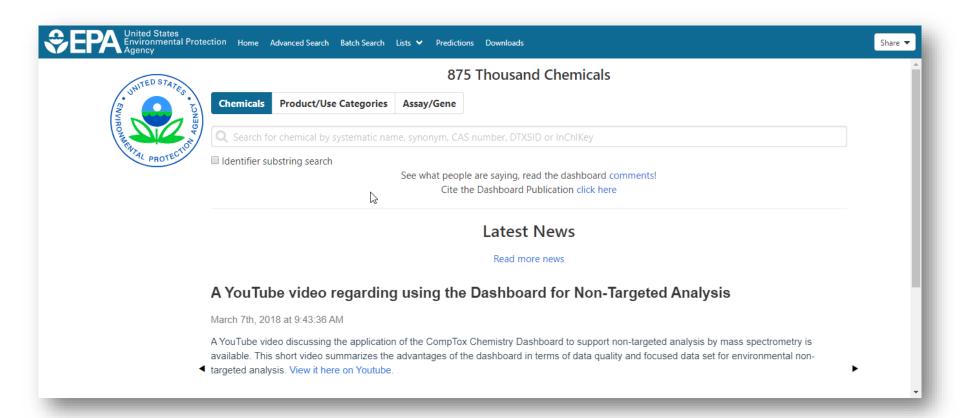


LinkedIn The MOST BASIC Career Networking Tool





My primary project at present...





Ability to Highlight Projects

Projects

The CompTox Chemicals Dashboard

Dec 2015 – Present

The CompTox Chemicals Dashboard is an integration hub for chemistry and biology data of interest to environmental scientists and toxicologists. The dashboard was released as a beta on April 1st 2016 and formally as version 1 to the community in August 2016. The dashboard is free to use and presently provides access to data for ~875,000 chemicals.

The definitive article regarding the development of the dashboard is published in the Journal of Cheminformatics as https://jcheminf.biomedcentral.com/articles/10.1186/s13321-017-0247-6.

There are a number of derivative and related articles that have come from the related research and application development. These include:

- 1) OPERA models for predicting physicochemical properties and environmental fate endpoints https://jcheminf.biomedcentral.com/articles/10.1186/s13321-018-0263-1
- 2) An automated curation procedure for addressing chemical errors and inconsistencies in public datasets used in QSAR modelling https://doi.org/10.1080/1062936X.2016.1253611
- 3) Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard https://www.altex.org/index.php/altex/article/view/1202
- 4) A Chemical Category-Based Prioritization Approach for Selecting 75 Per-and Polyfluoroalkyl Substances (PFAS) for Tiered Toxicity and Toxicokinetic Testing https://ehp.niehs.nih.gov/doi/10.1289/EHP4555

Other creators





















Manage Articles Here Too...

⁶4

Publications



Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard



Feb 4, 2019 • ALTEX-Alternatives to animal experimentation

Generalized Read-Across (GenRA) is a data driven approach which makes read-across predictions on the basis of a similarity weighted activity of source analogues (nearest neighbors). GenRA has been described in more detail in the literature (Shah et al., 2016; Helman et al., 2018). Here we present its implementation within the EPA's CompTox Chemicals Dashboard to provide public access to a GenRA module structured as a read-across workflow. GenRA assists researchers in identifying source analogues, evaluating their validity and making predictions of in vivo toxicity effects for a target substance. Predictions are presented as binary outcomes reflecting presence or absence of toxicity together with quantitative measures of uncertainty. The approach allows users to identify analogues in different ways, quickly assess the availability of relevant in vivo data for those analogues and visualize these in a data matrix to evaluate the consistency and concordance of the available experimental data for those analogues before making a GenRA prediction. Predictions can be exported into a tab-separated value (TSV) or Excel file for additional review and analysis (e.g., doses of analogues associated with production of toxic effects). GenRA offers a new capability of making reproducible read-across predictions in an easy-to use-interface.

Other authors



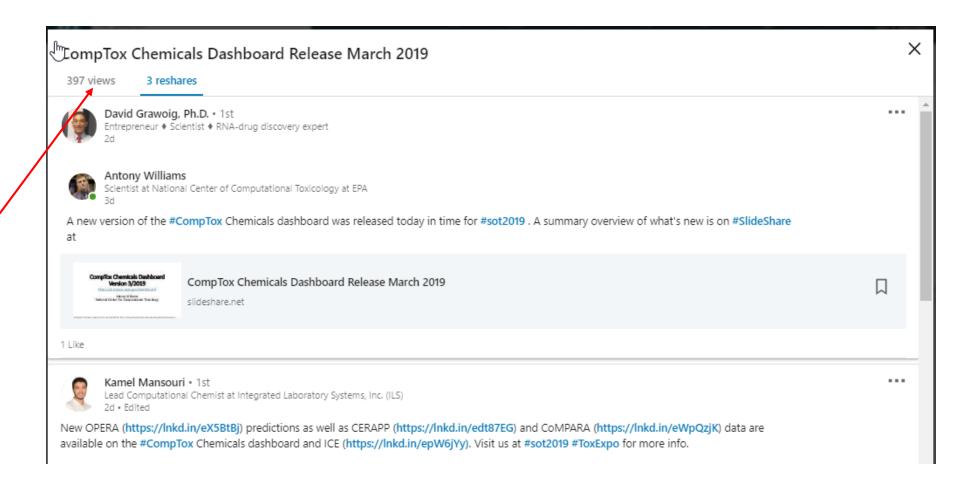






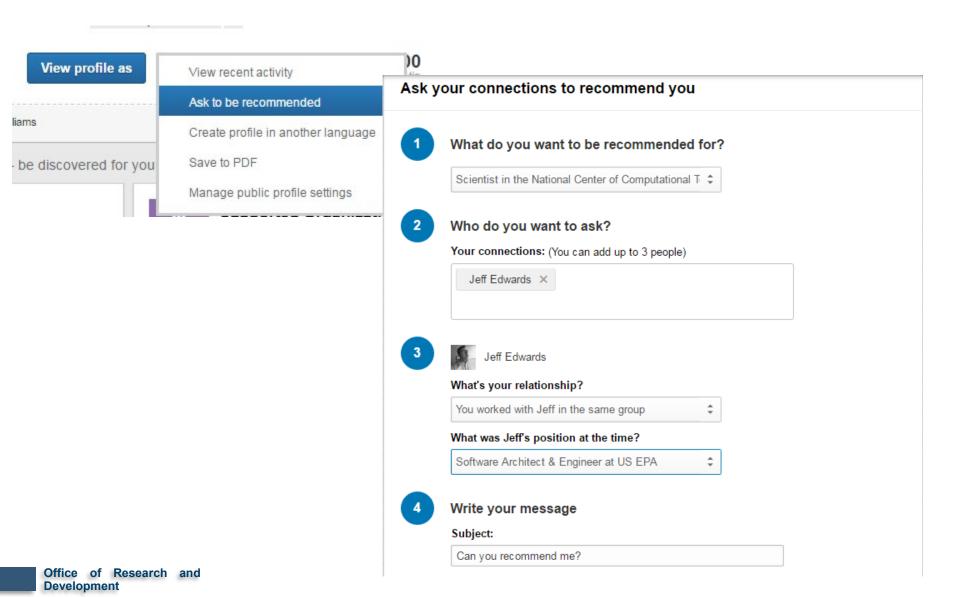


Your Postings Get Networked





Ask for Recommendations





Recommendations

Received (80)

Given (45)



Jason Lambert

Supervisory Toxicologist at US Environmental Protection Agency (EPA)

April 8, 2019, Antony worked with Jason in the same group I have been with the U.S. EPA for 14.5 years. In that time I have collaborated with some fantastic scientists including Dr. Antony (Tony) Williams. Tony is phenomenal at what he does. Specifically, he has led the conception and development of a tremendous resource known as the CompTox Chemicals Dashboard.... See more



Daniel Vallero

Biosystems Engineering Researcher

June 8, 2017, Daniel worked with Antony in different groups Dr. Williams has been an incredible asset since joining our team. I knew of his work in physicochemical characterization before, but having had the opportunity to work directly with him has been enlightening beyond my expectations. Of all his contributions, I would have to say that his leadership in developing an... See more



Nicole Kleinstreuer

NICEATM Director (Acting) at National Institute of Environmental Health Sciences (NIEHS)

March 24, 2017, Nicole worked with Antony in different groups

Tony is a joy to work with and to learn from. He demonstrates an unwavering commitment to scientific rigor, transparency, and quality in all of his projects. He is incredibly driven and talented, one of the leaders in the fields of data science and computational chemistry. His leads a large team within the EPA's comp... See more



Gary Siuzdak

Professor and Director, Center for Metabolomics

March 17, 2017, Gary worked with Antony but at different companies As an informatics specialist, I can't think of anyone who's had a greater impact on the chemistry field with his creation of ChemSpider. And more recently his efforts in the tox field (EPA-NCCT CompTox Chemistry Dashboard) are sure to follow the same trajectory. Antony is a first rate scientist that has ... See more



Ask for "Endorsements"

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NMR · 80

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R&D · 58

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Competitive Analysis · 18

Blogging · 19

Informatics · 12

 $\textbf{Commercialization} \cdot \textbf{13}$

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UV/Vis · 8

Patents · 6

 $LC-MS \cdot 5$

Life Sciences · 46

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Lifesciences · 53

 $\textbf{Spectroscopy} \cdot 47$

Organic Chemistry · 48

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 $\textbf{Mass Spectrometry} \cdot \textbf{13}$

Drug Development · 10

Business Development · 17

Data Mining · 10

Characterization · 8

Chromatography · 7

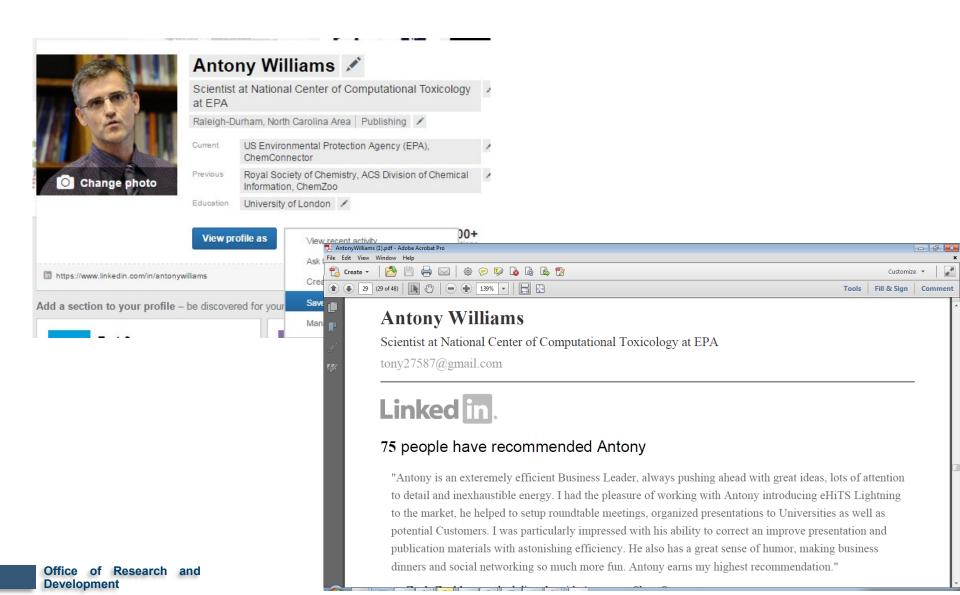
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Nuclear Magnetic Resonance (NMR) · 6

Social Media - 3

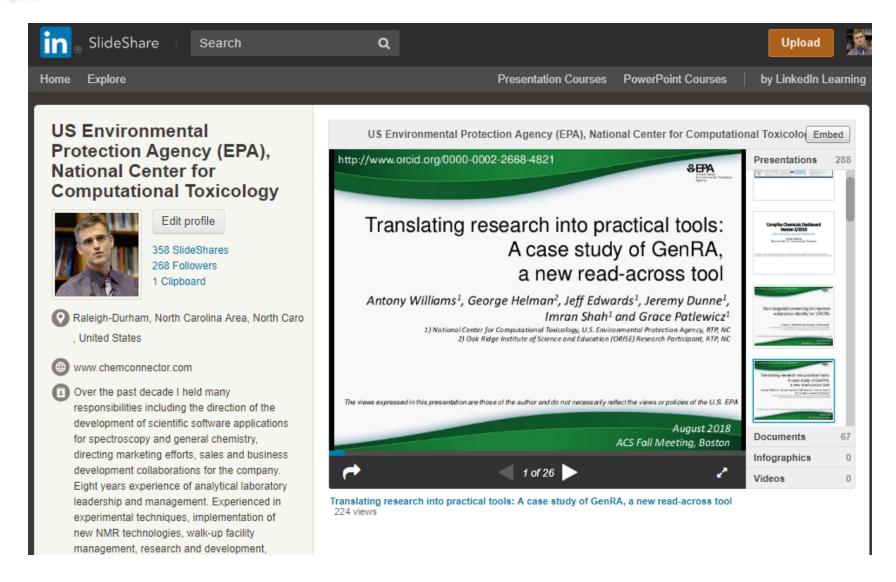


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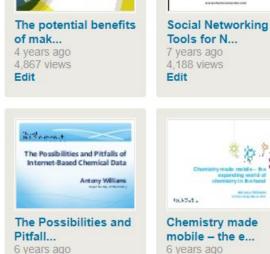
How to Build an Online

Profile as a Scientist

Antony Williams







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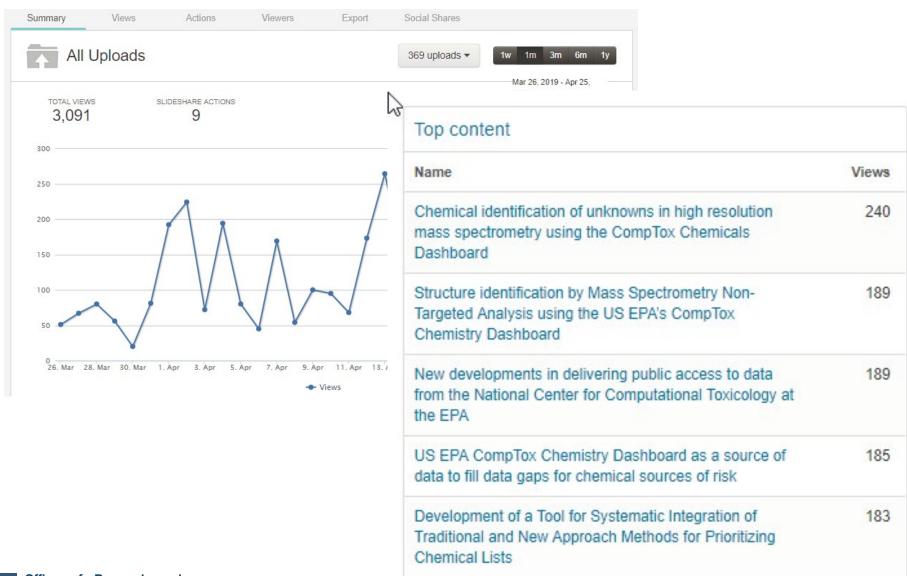
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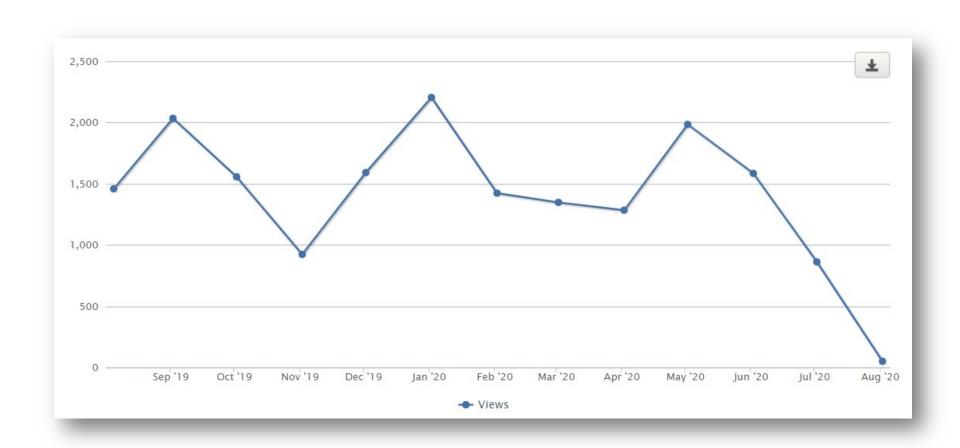


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United States Environmental Protection Slideshare - NOT Just Slides

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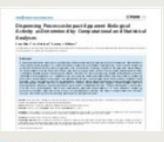
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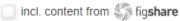
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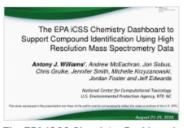
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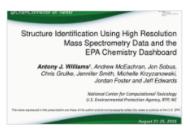
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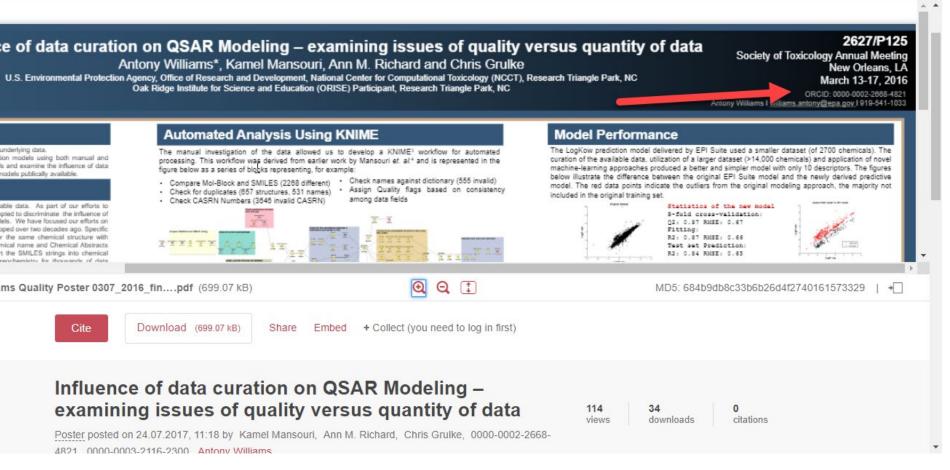
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Including all Posters... everything gets DOI'ed





DOI everything if you can



Mansouri, Kamel; Richard, Ann M.; Grulke, Chris; 0000-0002-2668-4821; 0000-0003-2116-2300; Williams, Antony (2017): Influence of data curation on QSAR Modeling – examining issues of quality versus quantity of data. figshare. Poster.

https://doi.org/10.23645/epacomptox.5176573.v1



DOI your research outputs and put online... Don't Wait!

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	2019	Analytical and bioanalytical chemistry, 1-17	Article	https://doi.org/10.1007/s00216-018-1526-4
	2018	Analytical and bioanalytical chemistry, 1-14	Article	https://doi.org/10.1007/s00216-018-1435-6
	2018	Journal of cheminformatics 10 (1), 10	Article	https://doi.org/10.1186/s13321-018-0263-1
	2018	Journal of cheminformatics 10 (1), 45	Article	https://doi.org/10.1186/s13321-018-0299-2
	2018	Environmental Science and Technology	Article	https://doi.org/10.1021/acs.est.8b04587
	2018	Science of The Total Environment 636, 901-909	Article	https://doi.org/10.1016/j.scitotenv.2018.04.266
)	2018	SCIENTIFIC DATA 5:180125	Article	https://doi.org/10.1038/sdata.2018.125
)	2018	Talanta 182, 371-379	Article	https://doi.org/10.1016/j.talanta.2018.01.022
1	2018	Environmental Pollution 234, 297-306	Article	https://doi.org/10.1016/j.envpol.2017.11.033
2	2018	Drug discovery today 23 (3), 661-672	Article	https://doi.org/10.1016/j.drudis.2018.01.018
3	2018	Computational Toxicology: Risk Assessment for Chemicals, 211-244	Chapter	https://doi.org/10.1002/9781119282594.ch8
4	2018	Environmental science & technology 52 (5), 3125-3135	Article	https://doi.org/10.1021/acs.est.7b04781
5	2018	Magn Reson Chem. 2018;56:703-715	Article	https://doi.org/10.1002/mrc.4737
5	2018	ACS Sustainable Chemistry & Engineering 6 (2), 2344-2352	Article	https://doi.org/10.1021/acssuschemeng.7b0379
7	2017	lournal of exposure science & environmental epidemiology. 1	Article	https://doi.org/10.1038/s41370-017-0012-v

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Publications ▼



ResearchGate for Networking



Overview

Research

Antony John Williams

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Add new research +

Introduction Edit 🔗 Affiliation Edit 🔗 I am presently a Computational Chemist at the National Center for Computational Toxicology with **United States** the US Environmental Protection Agency in Research Triangle Park, North Carolina. I am one of **Environmental Protection** the founders of the ChemSpider database (http://www.chemspider.com),one of the top chemistry Agency databases in the world that was acquired by the Royal Society of Chemistry in 2009. Prolific Location author with almost 200 peer-reviewed scientific publication and book chapters, 3 patents and United States 100s of public presentations. Department Skills and expertise (29) National Center for Computational Edit 🔗 Toxicology Medicinal and Pharmaceutical Chemistry **Analytical Chemistry** Spectroscopy Position Computational Chemist Drug Discovery Russell Scott Thomas's Lab Stats overview View all Lab head Russell Scott Thomas Lab members (6) 3,373 5,570 Total Research Interest (i) Citations Edit View lab 92 33,618 Reads (i) Recommendations Awarded grants (0)

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n presently a Computational C nputational Toxicology with the ency in Research Triangle Park n one of the founders of the C tp://www.chemspider.com),or the world that was acquired by 19. Prolific author with almost plication and book chapters, 3 sentations.

ills and expertise (29)

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ResearchGate for Sharing a PROJECT





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Project

The CompTox Chemicals Dashboard



Antony John Williams · D Christopher M Grulke · Mansouri Ka





Goal: The CompTox Chemicals Dashboard is a web-based application the chemistry and biology data of different types including experimental an and fate and transport data, in vivo and in vitro toxicity data, real time pr across approaches. The dashboard, available at https://comptox.epa.go data for 875,000 chemicals as of March 2019

Date: 30 March 2016

Lab: Russell Scott Thomas's Lab



added an update

New update to CompTox Chemicals Dashboard rel March 2019

An update to the dashboard has been released in March 2019 to coincide with t of Toxicology and American Chemical Society Spring meetings. Six months of ϵ resulted in the addition of 110,000 new chemical substances being added (bring total of chemical substances to 876k), improved support for Toxcast bioassay ((integrating data from the invitroDB_v3 release), the addition of multiple chemic new user interface enhancements across the application. A list of release notes available for review at https://comptox.epa.gov/dashboard/comptox_release_n

comptox_release_notes.pdf · 48.41 KB

Comment Share



Dec 26, 2018 V

EPA's non-targeted analysis collaborative trial (ENTACT): genesis, design, and initial findings

Article Dec 2018

Williams

Elin M Ulrich · O Jon R. Sobus · O Christopher M Grulke · [...] · Antony John

In August 2015, the US Environmental Protection Agency (EPA) convened a workshop entitled "Advancing non-targeted analyses of xenobiotic chemicals in environmental and biological media." The purpose of the workshop was to bring...

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"MS-Ready" structures for non-targeted high-resolution mass spectrometry screening studies

Article Dec 2018

🧣 Andrew McEachran · 🦚 Mansouri Kamel · 🔘 Christopher M Grulke · [...] · @ Antony John Williams



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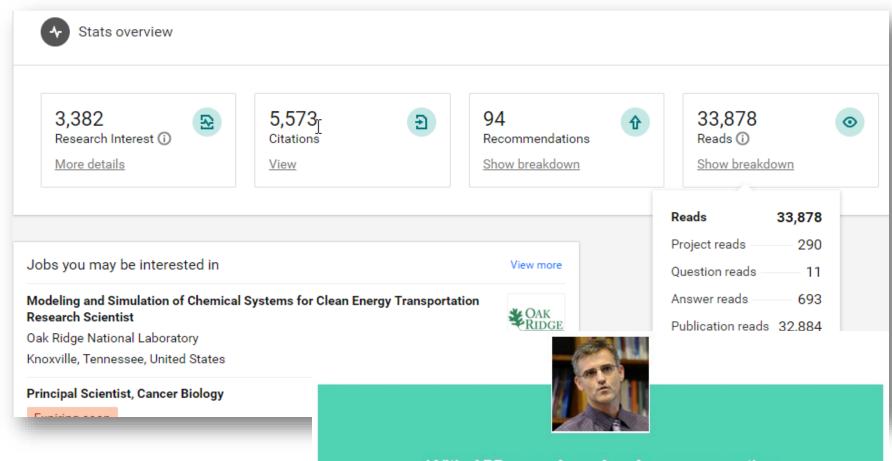
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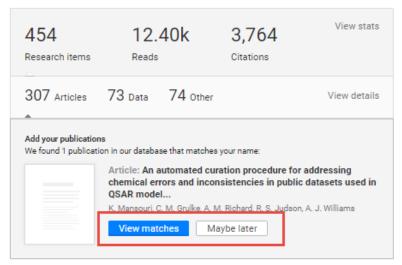
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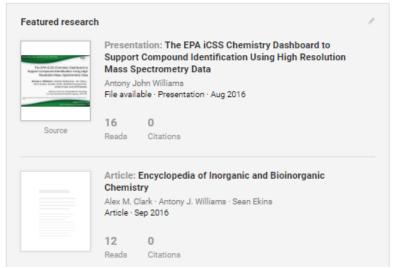


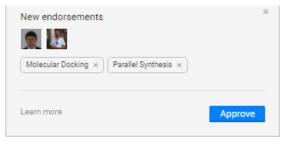
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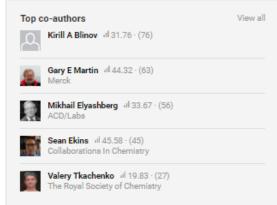


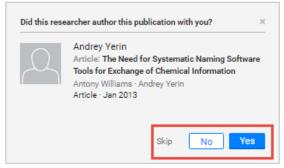
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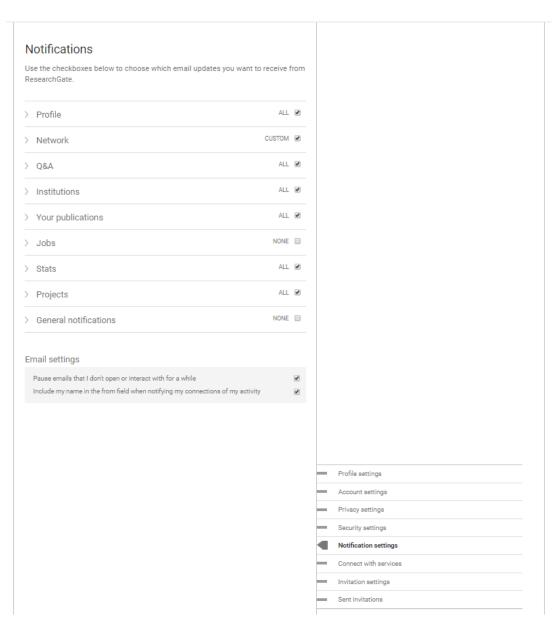






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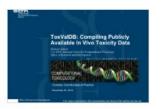
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Supplemental files for "Profiling 58 Compounds Including Cosmetic-R... EPA's National Center f... yesterday



PFAS Tiered Testing Strategy
Reeder Sams 04/03/2019



ToxVaIDB: Compiling Publicly Available In Vivo Toxicity Data Richard Judson 04/03/2019



CFM-ID Paper Data
EPA's National Center f... 01/03/2019



Animal Toxicity Studies: Effects and Endpoints (Toxicity Reference Dat...

EPA's National Center f... 27/02/2019



CFM-ID generation of CompTox Chemicals Dashboard Structures EPA's National Center f... 27/02/2019



Bioactivity Exposure Ratio (BER) Analysis Using High Throughput T... Joshua Harrill 21/02/2019



Integrating Eawag, LCSB, MetFrag and CompTox Efforts in ENTACT Emma Schymanski v 21/02/2019



Supplementary Data Access

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EPA Comptox Chemistry Dashboard "MS-Ready" File of Structures

17.02.2017, 11:27 by Antony Williams

The EPA CompTox Chemistry Dashboard (at https://comptox.epa.gov) can be used by mass spectrometrists for the purpose of structure identification. A normal formula search would search the exact formula associated with any chemical, whether it include solvents of hydration, salts or multiple components. However, mass spectrometry detects ionized chemical structures and molecular formulae searches should be based on desalted, and desolvated structures with stereochemistry removed. We refer to these as "MS ready structures" and the MS-ready mappings are delivered as Excel Spreadsheets containing the Preferred Name, CAS-RN. DTXSID, Formula, Formula of the MS-ready structure and associated masses, SMILES and InChI Strings/Keys.

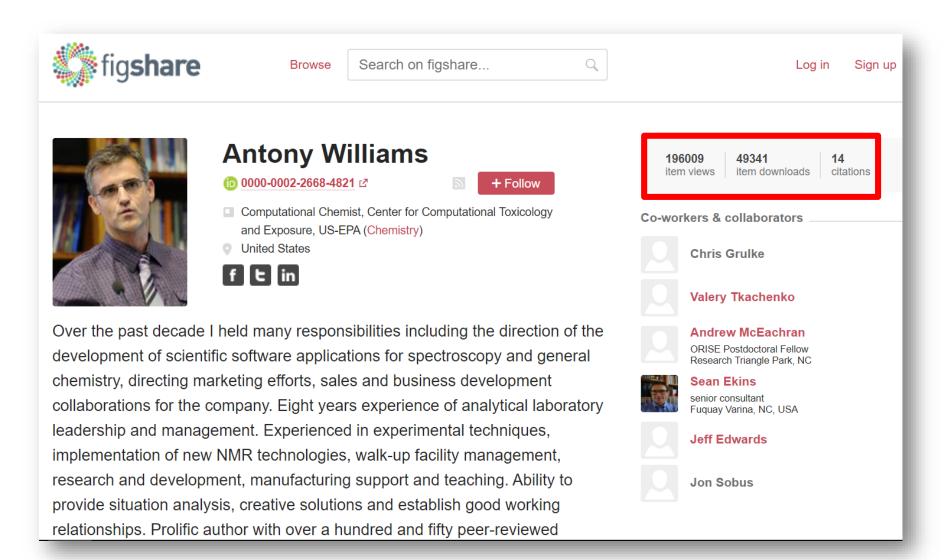
REFERENCES

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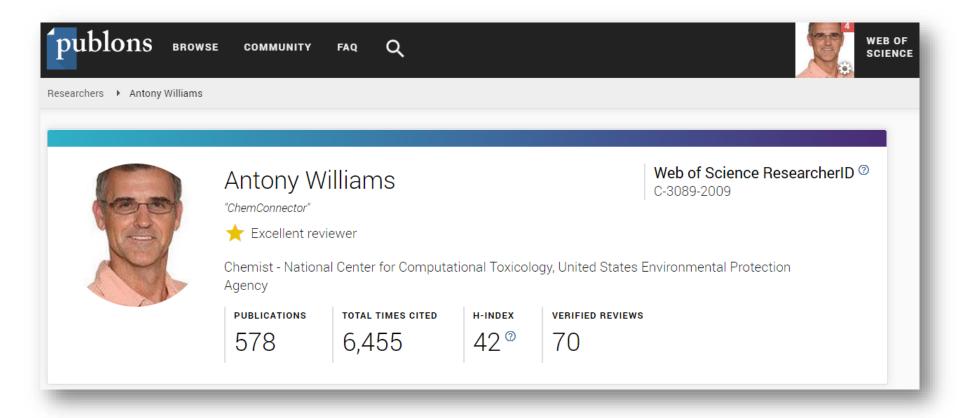


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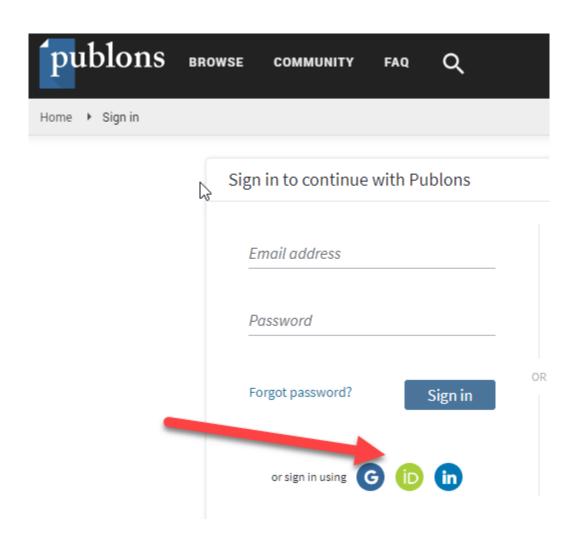


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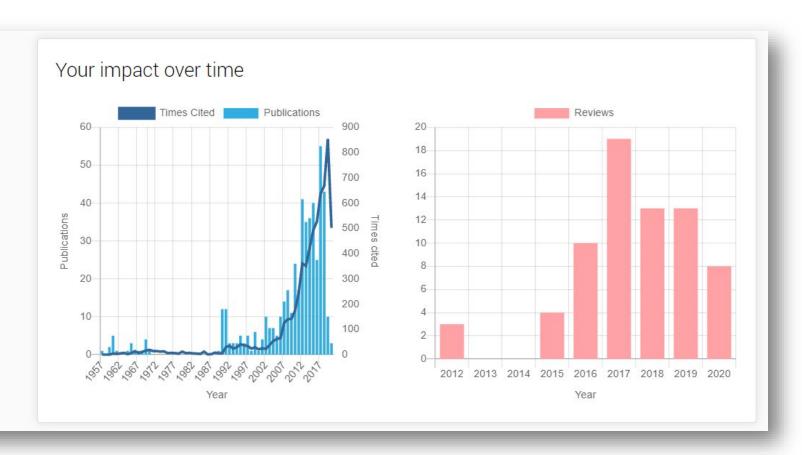
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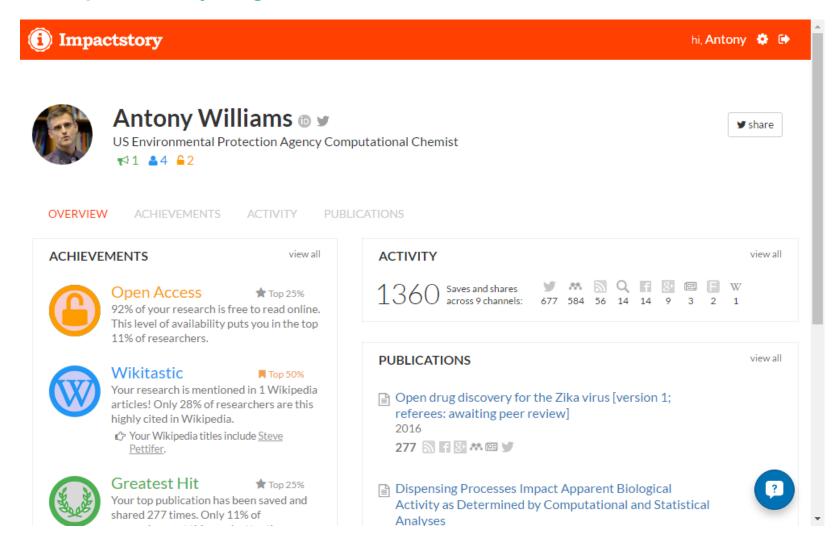


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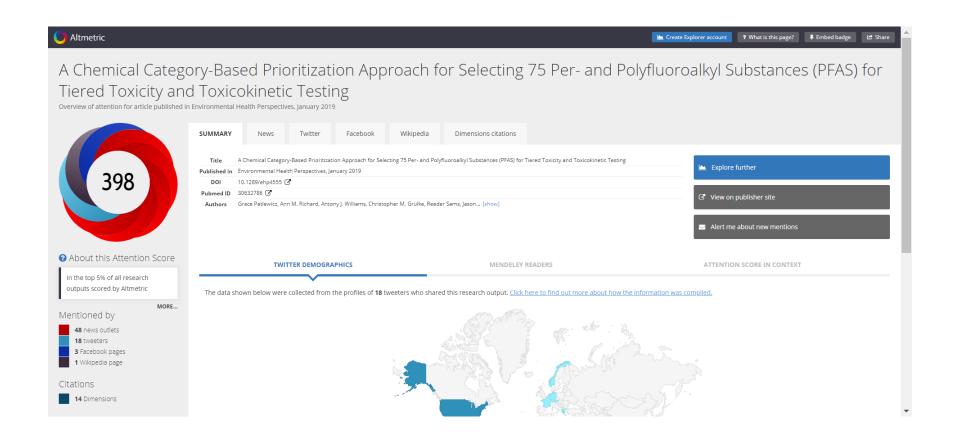
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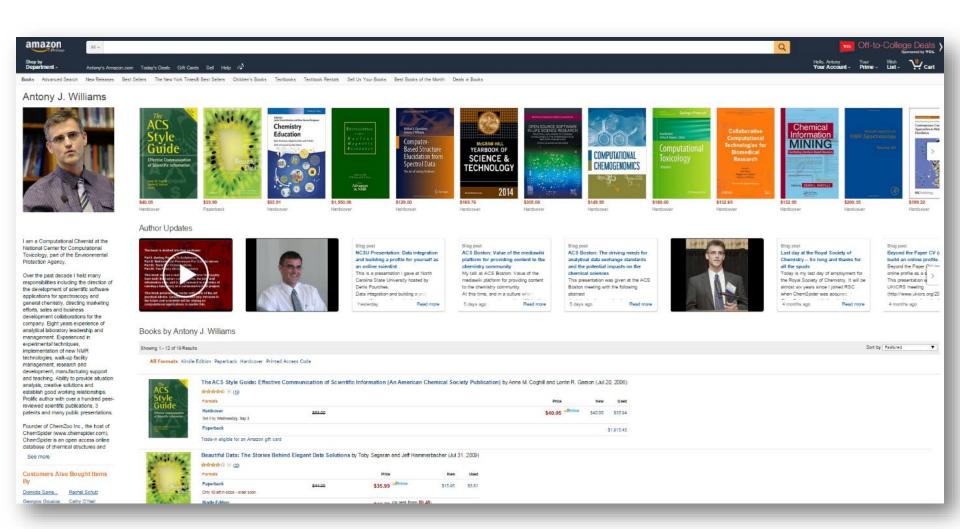
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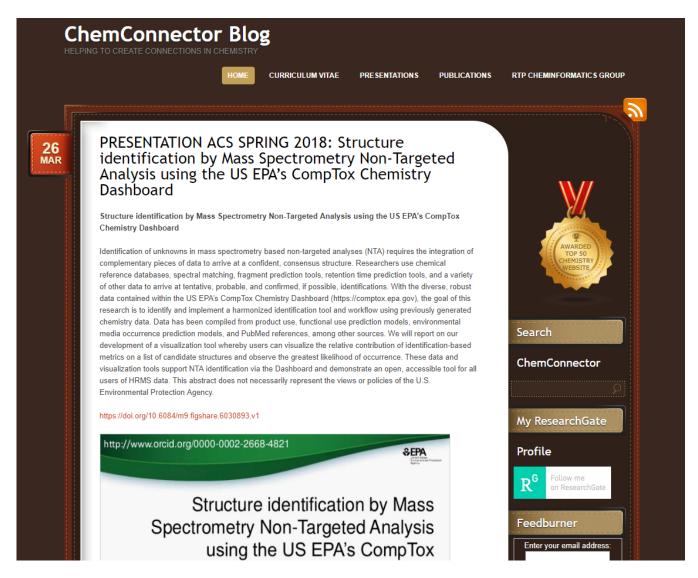
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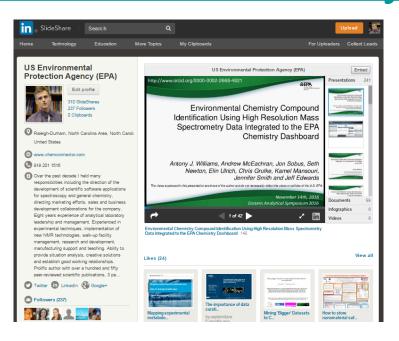
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Various Versions of This Talk

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