

Bibliometrics and Altmetrics for Communicating Scholarly and Research Impact

JSOE Academic Personnel



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Karen Heskett

Allegra Swift

February 10, 2020

What We're Covering

Help

Research Metrics to ^ Tell the Story of Impact

- Quantitative Metrics Tools
- Metrics → Telling the Story
 - *So What?*
- Visibility
- <https://ucsd.libguides.com/impact>

Questions?

Why tell an impact story?

- Promotion & Tenure Files
- Visa Applications
- Grant Applications and Reports
- Department/Center Reports
- Promotion as Expert (media, public, legislative....)
- Employment/CV

Outputs

- Journal articles
- Conference papers
- Patents
- Books/book chapters
- Policy papers
- Presentations, lectures, posters
- Interviews
- Educational materials
- Protocols
- Datasets
- Software, code
- Performances, exhibitions

The tangible products, goods, and services that are produced (supplied) directly by a program's activities. The use of outputs by beneficiaries contributes to changes in outcomes.¹

1. <https://openknowledge.worldbank.org/bitstream/handle/10986/25030/9781464807794.pdf>

Outcomes

The specific changes in a program participants' behavior, knowledge, skills, status and level of functioning.¹

- Advancement of knowledge²
- Clinical implementation
- Community benefit
- Legislation and policy
- Economic benefit

- Change in understanding of a disease, disorder or condition³
- Change in clinical or research practice
- Enhancement of community health, culture
- Collaboration patterns
- Extent of interdisciplinary research
- Increased public awareness

1. <https://www.bttop.org/sites/default/files/public/W.K.%20Kellogg%20LogicModel.pdf>

2. <https://becker.wustl.edu/impact-assessment/how-to-use>

Impact?

- Measurement/assessment of changes in outcomes.
- **Metric as Indicator** (*evidence*) of the impact of your **Output(s)** on **Outcome(s)**.

What are we talking about?

- **Outcomes**

Advancement of knowledge, economic benefit, public/community education, legislation, policy changes

- **Outputs**

Articles, books/chapters, patents, software/code, posters/presentations, datasets, patents, interviews, outreach

- **Impact**

Assessment/change/effect in outcomes, based on outputs

- **Metrics**

Quantitative information that can serve as potential indicators, support, or evidence of impact

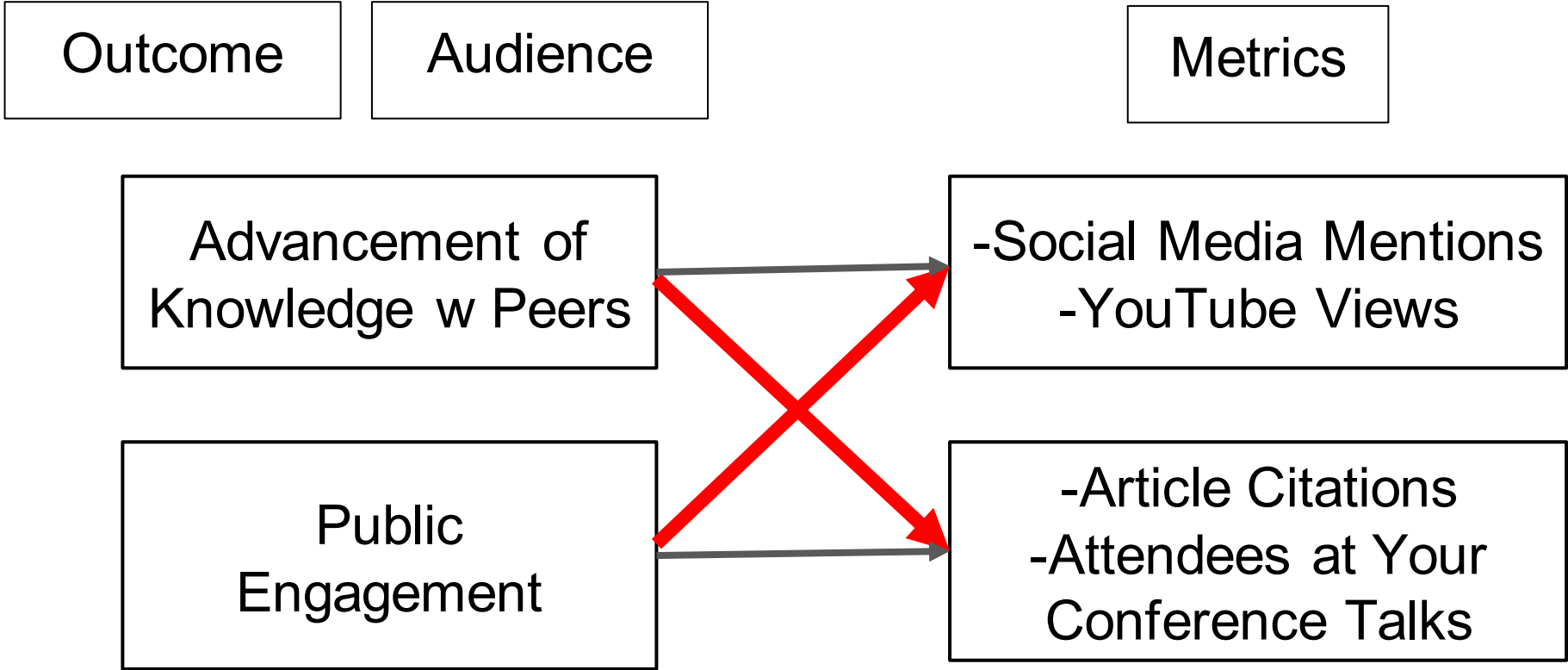
Working with Metrics

1. Identify Your Priorities
2. Choose the Right Metrics (and Tools)
3. Track and Gather
4. Use Appropriately and Strategically
5. Improve/Increase

Identify Your Priorities

1. **Why** do you need to write about your impact? Is this for a promotion and tenure file, grant application/report, research center annual report, employment, etc.?
2. **What** is the story you want to tell about your impact? What statements do you need to support with evidence or indicators? What outcomes?
3. **Which** research outputs and activities are you focusing on?
4. **Who** is the audience for your outputs?

Choose the Right Metrics (and Tools)



Selection Resources

Metrics Toolkit

<http://www.metrics-toolkit.org/choose-metrics/>

Becker Medical Library Model for Assessment of Research Impact

https://becker.wustl.edu/impact-assessment/files/becker_model-reference.pdf

**BIBLIOMETRICS
=
CITATIONS**

Google Scholar

Web of Science

Cited Article

Citing Articles

YOUR ARTICLE

ARTICLE A

ARTICLE B

ARTICLE C

ARTICLE D

Times Cited: 4

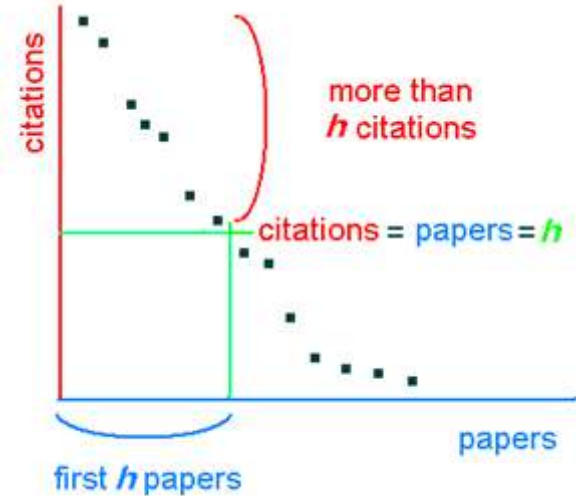


Google Scholar

- Free
- Times Cited
- Citation Alerts
- H-Index

- Google Profile*

- <https://scholar.google.com/intl/en/scholar/citations.html>





Teri Vogel 

Librarian for Chemistry & Biochemistry, Materials Science, NanoEngineering and Chemical Engineering
Verified email at ucsd.edu

[Libraries](#) [Chemical Information](#) [Social Media](#) [Metrics](#) [Altmetrics](#)

 FOLLOWING

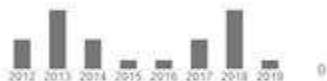
Cited by

[VIEW ALL](#)

	All	Since 2015
Citations	97	12
h-index	3	2
i10-index	3	0

18

9



Co-authors

[EDIT](#)

No co-authors

TITLE  

	CITED BY	YEAR
<input type="checkbox"/> Building a home for library news with a blog D Goans, TM Vogel Computers in Libraries 23 (10)	37	2003
<input type="checkbox"/> Delivering the news with blogs: The Georgia State University library experience TM Vogel, D Goans Internet Reference Services Quarterly 10 (1): 5-27	34	2005
<input type="checkbox"/> Beyond HTML: Developing and re-imagining library web guides in a content management system D Goans, G Leach, TM Vogel Library Hi Tech 24 (1): 29-53	22	2006
<input type="checkbox"/> Instruction 2.0: Teaching and/or incorporating Web 2.0 technologies in your classroom S Shepherd, TM Vogel	2	2009
<input type="checkbox"/> Weaving the Web 2.0: RSS and the future of chemical/science information TM Vogel 231st American Chemical Society National Meeting, Atlanta, Georgia, March 26	2	2006
<input type="checkbox"/> Does an open access publication have to cost so much? A study of departmental publication patters in order to recommend high quality-low cost alternative open access journals. AK Swell, KM Heskett, C Silvestre, F Stoolhool, TM Vogel		2019
<input type="checkbox"/> Bringing Information Literacy (IL) into the First-Year College Science Curriculum: Expanding a Faculty/Librarian Partnership to Develop Chemical IL Modules for Freshmen Lecture ... TM Vogel, S Brydges, D Turbow, A Roth American Association for the Advancement of Science, Pacific Division Annual		2016
<input type="checkbox"/> Chemical information across San Diego County: A community college and university library collaboration for an independent synthesis project TM Vogel, CB Giley 246th American Chemical Society National Meeting, Indianapolis, Sept 8-12, 2013		2013

Link to slidedecks posted to eScholarship

Automatically update the list of articles in my profile. (recommended)

Don't automatically update my profile. Send me email to review and confirm updates.

[Update settings](#)

Web of Science

- Coverage (18K+ journals, 80K books, 180K conference proceedings)
- Searchable by topic, author, *and address*
- Times Cited, and Who Cited
 - Analyze citing papers**
- Citation Alerts
- Citation Reports/H-Index
- “Top papers”
 - Highly Cited Papers
 - Hot Papers

<http://uclibs.org/PID/12610>

Author Metrics Citation Reports

Web of Science

Total Publications

65 [Analyze](#)



2000

2019

h-index

21

Average citations per item

51.23

Sum of Times Cited

3,330

Without self citations

3,188

Citing articles

2,368 [Analyze](#)

Without self citations

2,321 [Analyze](#)

Total Publications

51 [Analyze](#)



2000

2019

h-index

19

Average citations per item

56.22

Sum of Times Cited

2,867

Without self citations

2,747

Citing articles

2,069 [Analyze](#)

Without self citations

2,027 [Analyze](#)

Web of Science

Cited Ref Searching

Basic Search Author Search **Cited Reference Search** Advanced Search Structure Search

Find the articles that cite a person's work.
Step 1: Enter information about the cited work. Fields are combined with the Boolean AND operator.

tolley, mt Cited Author

Select from Index

Example: J Comp Appl Math Cited Work

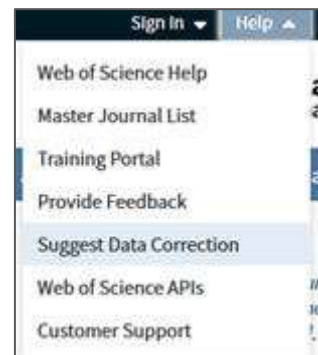
Select from Index
View abbreviation list

2017-2020 Cited Year(s)

Search

+ Add row | Reset



Select	Cited Author	Cited Work [Expand Titles]	Title [Expand Titles]	Early Access Year ***	Year	Volume	Issue	Page	Identifier	Citing Articles **
<input type="checkbox"/>	Shih, B.; Mayeda, J.; Huo, Z.; Christianson, C.; Tolley, M. T. - [Hide all authors]	2018 IEEE INT C SOFT	3d printed resistive soft sensors		2018					2
<input type="checkbox"/>	Shih, B. + [Show all authors]	2018 IEEE International Conference on Soft Robotics (RoboSoft)	3D printed resistive soft sensors		2018			152	DOI: 10.1109/ROBOSOFT.2018.8404912	1
<input type="checkbox"/>	Drotman, D.; Jadhav, S.; Karimi, M.; Tolley, M. T. - [Hide all authors]	ROB AUT ICRA 2014 IE	3d printed soft actuators for a legged robot capable...		2017					1
<input type="checkbox"/>	Drotman, D.; Jadhav, S.; Karimi, M.; de Zonia, P.; Tolley, M.T. - [Hide all authors]	2017 IEEE International Conference on Robotics and Automation (ICRA)	3D printed soft actuators for a legged robot capable...		2017			5532	DOI: 10.1109/ICRA.2017.7989652	30
<input type="checkbox"/>	Drotman, D. + [Show all authors]	2017 IEEE ICRA	3D printed soft actuators for a legged robot capable... URL: http://ieeexplore.ieee.org/document/7989652/		2017					1
<input type="checkbox"/>	Kumar, Kitty...Tolley, Michael T. + [Show all authors]	SOFT ROBOT	A Biologically Inspired, Functionally Graded End...		2017	4	4	317	DOI: 10.1089/soro.2017.0002	10
<input type="checkbox"/>	Glick, P. + [Show all authors]	IEEE ROBOTICS AUTOMA	A soft robotic gripper with gecko-inspired adhesive		2018					1
<input type="checkbox"/>	Glick, Paul...Tolley, Michael T. + [Show all authors]	IEEE ROBOT AUTOM LET	A Soft Robotic Gripper With Gecko-Inspired Adhesive		2018	3	2	903	DOI: 10.1109/LRA.2018.2792688	22



[HTML] [Quantifying inactive lithium in lithium metal batteries](#)

[C Fang](#), [J Li](#), [M Zhang](#), Y Zhang, [F Yang](#), JZ Lee... - Nature, 2019 - nature.com

Lithium metal anodes offer high theoretical capacities (3,860 milliampere-hours per gram) 1, but rechargeable batteries built with such anodes suffer from dendrite growth and low Coulombic efficiency (the ratio of charge output to charge input), preventing their commercial adoption 2, 3. The formation of inactive ("dead") lithium—which consists of both (electro)chemically formed Li⁺ compounds in the solid electrolyte interphase and electrically isolated unreacted metallic Li⁰ (refs 4, 5)—causes capacity loss and safety hazards. Quantitatively ...

☆  Cited by 25 [Related articles](#) [All 12 versions](#) [Web of Science: 11](#) 

Web of Science

Quantifying inactive lithium in lithium metal batteries

By: [Fang, CC](#) (Fang, Chengcheng)^[1]; [Li, JX](#) (Li, Jinxing)^[2]; [Zhang, MH](#) (Zhang, Minghao)^[2]; [Zhang, YH](#) (Zhang, Yihui)^[1]; [Yang, F](#) (Yang, Fan)^[3]; [Lee, JZ](#) (Lee, Jungwoo Z.)^[2]; [Lee, MH](#) (Lee, Min-Han)^[1]; [Alvarado, J](#) (Alvarado, Judith)^[1,4]; [Schroeder, MA](#) (Schroeder, Marshall A.)^[4]; [Yang, YYC](#) (Yang, Yangyuchen)^[1] ...More

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NATURE

Volume: 572 Issue: 7770 Pages: 511-+

DOI: 10.1038/s41586-019-1481-z

Citation Network

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11

Times Cited

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Kirsten Adam

Web of Science ResearcherID[®]

I-3691-2019

Top peer reviewer

Postdoc - Psychology, University of California, San Diego

PUBLICATIONS

10

TOTAL TIMES CITED

90

H-INDEX

5[Ⓢ]

VERIFIED REVIEWS

33

[Summary](#) [Metrics](#) [Publications](#) [Peer review](#)

Research Fields

COGNITIVE PSYCHOLOGY

EEG

VISUAL ATTENTION

WORKING MEMORY

Identifiers

Web of Science ResearcherID[®] I-3691-2019

ORCID 0000-0002-4950-327X

Adam J. Engler

ORCID ID

<https://orcid.org/0000-0003-1642-5380>

Print view

Also known as

Adam J. Engler, Adam Jeffrey Engler

Websites

<http://econ.ucsd.edu>

Country

United States

Employment (3)

Sort

University of California San Diego: La Jolla, CA, US

2018-07-01 to present | Professor (Biomechanics)

Employment

Source: Adam J. Engler

Preferred source

University of California San Diego: La Jolla, CA, US

2014-07-01 to 2018-06-30 | Associate Professor (Biomechanics)

Employment

Source: Adam J. Engler

Preferred source

University of California San Diego: La Jolla, CA, US

2008-07-01 to 2014-06-30 | Assistant Professor (Biomechanics)

Employment

Source: Adam J. Engler

Preferred source

Education and qualifications (2)

Funding (12)

Works (50 of 99)

Sort

Items per page: 50

1 - 50 of 99

< >

Hi-Ras Transformation of Mammary Epithelial Cells Induces ERK-Mediated Spreading on Low Stiffness Matrix

Advanced Healthcare Materials

2020-01-17 | journal article

DOI: 10.1002/adhm.20190366

Source: Crossref

Preferred source

Dynamically stiffened matrix promotes malignant transformation of mammary epithelial cells via collective mechanical signaling

Proceedings of the National Academy of Sciences

2019-02-26 | journal article

DOI: 10.1073/pnas.1814208116

Source: Crossref

Preferred source

Combinatorial interactions of genetic variants in human cardiomyopathy

Sort

<https://orcid.org/0000-0003-1642-5380>

Journal Impact Factor

**2018 Impact
Factor**

=

Number of times that items published in the journal for 2016-2017 were cited in 2018

Number of citable items (articles, reviews, conference papers) that were published in in the journal for 2016-2017

<http://uclibs.org/PID/36787>

Problems with Journal-Level Metrics

- Don't compare across disciplines
- Skewing by discipline, journal type



- Not an indication of article or author impact.
 - *Do not use journal-based metrics, such as Journal Impact Factors, as a surrogate measure of the quality of individual research articles, to assess an individual scientist's contributions, or in hiring, promotion, or funding decisions.* - Recommendation 1, San Francisco Declaration on Research Assessment (<https://sfdora.org/read/>)
- See also, Leiden Manifesto for Research Metrics
<http://www.leidenmanifesto.org/>

Journal Impact Metrics

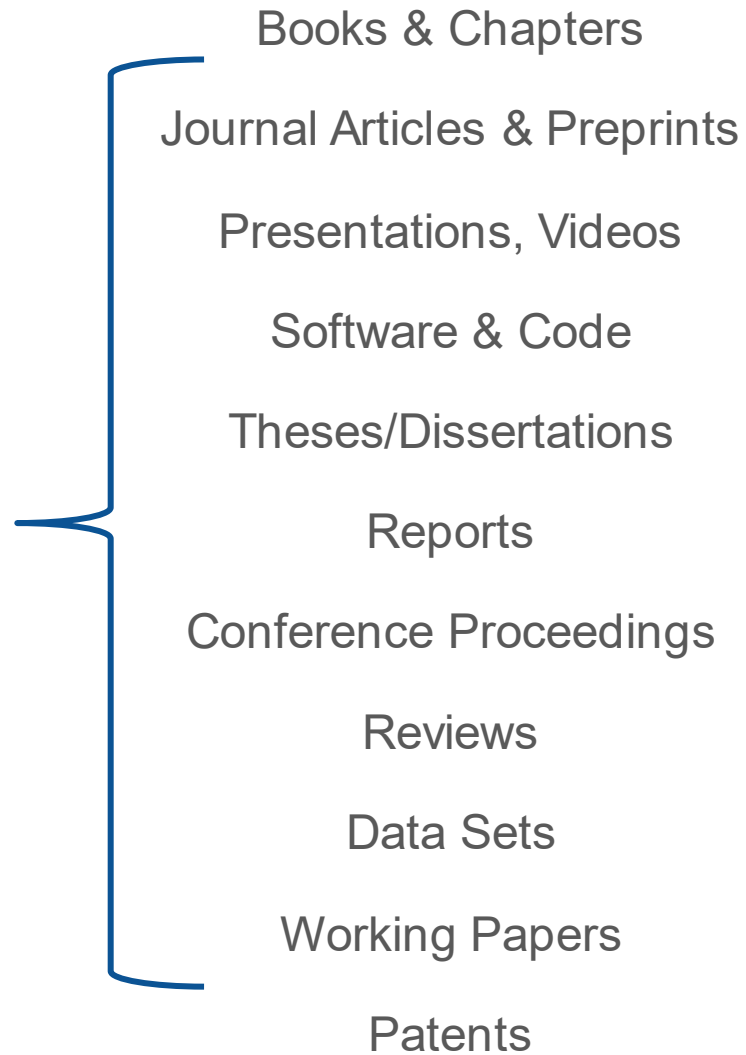
Metric	Source Citation Data	Access
Journal Impact Factor , Eigenfactor	Web of Science	Journal Citation Reports http://uclibs.org/PID/36787
CiteScore, SJR, SNIP	Scopus	Journal Metrics - Scopus https://journalmetrics.scopus.com/
h5-Index and h5-Median	Google Scholar	Google Scholar Metrics https://scholar.google.com/intl/en/scholar/metrics.html

Limitations of Bibliometric Data

- Immediacy?
- Data sources?
- Limited by research output?
- Citation bias?
- Improper use, comparison?
- Why are the works cited?
- Author disambiguation?
- Gamification?
- Has it been cited?

Why Altmetrics?

- Track online engagement, attention for a broad range of research outputs, as soon as they're online.
- Track engagement, attention outside immediate circle of research peers.
- Identify communication channels
- Discover potential collaborators



Challenges of Altmetrics

- NEW
- Social media engagement
- Correlation: altmetrics → bibliometrics?
- Attention positive...or negative
- Gamification
- Disciplinary differences
- Online attention needed to get metrics.

ALTMETRICS

Based on Online
Tools, Engagement



Altmetric



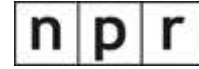
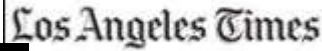
Dimensions





reddit

facebook



- SOCIAL MEDIA
 - Twitter
 - Facebook
 - Google+
 - Reddit



- Public policy documents
- MAINSTREAM MEDIA (2,000+)
- Mendeley (reference mgr)
- Post-pub peer-review platforms
- Open Syllabus Project
- Wikipedia
- F1000 Prime
- Blogs (9,000+)
- Youtube
- Stack Exchange (Q&A)
- Patents
- (Citations - Dimensions)



Online Impact



[See more details](#)

-  Picked up by 1 news outlets
-  Blogged by 1
-  Tweeted by 4
-  41 readers on Mendeley

1. “The Doughnut”
2. Altmetric Bookmarklet <https://www.altmetric.com/products/free-tools/bookmarklet/>
3. Altmetric Explorer (Library)
4. <https://www.altmetric.com/case-studies/>
5. <https://www.altmetric.com/products/free-tools/free-badges-for-researchers/>

Altmetric in action

- <https://www.nature.com/articles/s41564-019-0593-4>
- <https://robotics.sciencemag.org/content/3/17/eaat1893>
- <https://ieeexplore.ieee.org/document/5504804>
- <https://www.nature.com/articles/s41598-017-01157-w>
- <https://onlinelibrary.wiley.com/doi/abs/10.1002/adfm.201800002>
- <https://pubs.acs.org/doi/10.1021/acsnano.5b07826>

- <https://profiles.ucsd.edu/nicole.steinmetz>
- <https://doi.org/10.1017/CBO9780511811685>
- <https://www.biorxiv.org/content/early/2018/03/06/277673>
 - <http://dx.doi.org/10.1038/s41467-018-06694-0>
- https://chemrxiv.org/articles/Carbon_Nanotubes_in_Keeladi_Potteries/11760216
- https://figshare.com/articles/Main_Dataset_for_Evolution_of_Popular_Music_USA_1960_2010_/1309953

Altmetric Attention Score - Positive or Negative

- <http://science.sciencemag.org/content/332/6034/1163/>
- <https://doi.org/10.1073/pnas.1510028112>
- <https://doi.org/10.1073/pnas.1610381114>
- <https://doi.org/10.1073/pnas.1708069114>

<https://www.altmetric.com/products/free-tools/bookmarklet/>

- arXiv, Pubmed, or any page with a DOI (Google Scholar metadata)
- <https://arxiv.org/abs/1711.02231>
- <https://arxiv.org/abs/1607.01097>
- <https://ieeexplore.ieee.org/document/5504804/>
 - (highlight the DOI)
- <https://dl.acm.org/citation.cfm?id=2445248>
- <https://dl.acm.org/doi/abs/10.1145/3267809.3267815>



PLUM Analytics

- <https://www.sciencedirect.com/science/article/pii/S0956566317306784>
- <https://www.sciencedirect.com/science/article/pii/S2451929418302110>
- <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=124559361&site=ehost-live>
- <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=112675980&site=ehost-live>

Altmetric Explorer for Librarians



Exploring data for **all research outputs** with keywords containing **michael toley**

EDIT SEARCH

Quick search...

Showing **75 research outputs** from the results of your search query. Of those, **59** have been mentioned.

EXPORT THIS TAB

Sort by: Publication date (Newest first)



Jellyfish-Inspired Soft Robot Driven by Fluid Electrode Dielectric Organic...

Article in *Frontiers in Robotics and AI*. November 2019



Reversible adhesion to rough surfaces both in and out of water, inspired by the...

Article in *Bioinspiration & Biomimetics*. October 2019



Electrically controlled liquid crystal elastomer-based soft tubular actuator...

Article in *Science Advances*. October 2019



Beta-adrenergic blockade for attenuation of catecholamine surge after traumatic...

Article in *Trauma Surgery & Acute Care Open (TSACO)*. August 2019



No safe haven: Protection levels show imperilled South African reptiles not...

Article in *Biological Conservation*. May 2019



Design Considerations for 3D Printed, Soft, Multimaterial Resistive Sensors for...

Article in *Frontiers in Robotics and AI*. April 2019



Eversion and Retraction of a Soft Robot Towards the Exploration of Coral Reefs

Article. April 2019



Primordial Non-Gaussianity

Article. March 2019



Effects of Parasite Infection and Host Body Size on Habitat Associations of...

Article in *Journal of Aquatic Animal Health*. February 2019



Soft robot perception using embedded soft sensors and recurrent neural networks

Article in *Science Robotics*. January 2019



An End-to-End Approach to Self-Folding Origami Structures

Article in *IEEE Transactions on Robotics*. December 2018



International neural monitoring study group guideline 2018 part I: Staging...

Article in *The Laryngoscope*. October 2018



Long-Duration Surface Anchoring With a Hybrid Electrostatic and Gecko-Inspired...

Article in *IEEE Robotics and Automation Letters*. October 2018



Modulation of endoplasmic reticulum stress and the unfolded protein response in...

Article in *SAGE Open Medicine*. June 2018



Design, fabrication and control of origami robots

Article in *Nature Reviews Materials*. May 2018

Altmetric Explorer



Exploring data for **all research outputs** with keywords containing **darren lipomi**

EDIT SEARCH

Quick search

Showing **52 research outputs** from the results of your search query. Of those, **42** have been mentioned.

EXPORT THIS TAB



Sort by: Wikipedia citations



Effect of Broken Conjugation on the Stretchability of Semiconducting Polymers

Article in **Macromolecular Rapid Communications**, August 2016

■ 1 Wikipedia mention



Electronic Properties of Transparent Conductive Films of PEDOT:PSS on

Article in **Chemistry of Materials**, January 2012

■ 1 Wikipedia mention



The Language of Glove: Wireless gesture decoder with low-power and stretchable...

Article in **PLoS ONE**, July 2017

■ 0 Wikipedia mentions



Skin-like pressure and strain sensors based on transparent elastic films of...

Article in **Nature Nanotechnology**, October 2011

■ 0 Wikipedia mentions



Human ability to discriminate surface chemistry by touch

Article in **Materials Horizons**, November 2017

■ 0 Wikipedia mentions



Molecularly Stretchable Electronics

Article in **Chemistry of Materials**, April 2014

■ 0 Wikipedia mentions



Continuous wireless pressure monitoring and mapping with ultra-small passive...



Best of Both Worlds: Conjugated Polymers Exhibiting Good Photovoltaic Behavior...

FILTERS FAVORITES

PUBLICATION YEAR

RESEARCHER

- Karen Leigh Christman 99
- Rebecca L Braden 19
- Heather D Maynard 12
- Jessica A Dequach 12
- Roberto Gaetani 11
- Todd D Johnson 11
- Pamela J Schup-Magoffin 9
- Jennifer M Singelyn 9
- Jessica L Ungerleider 9
- Diane P Hu 7
- Gregory N Grover 7

More

FUNDER

RESEARCH ORGANIZATION

COUNTRY/TERRITORY

FIELDS OF RESEARCH

PUBLICATION TYPE

SOURCE TITLE

JOURNAL LIST

OPEN ACCESS



Karen Leigh Christman

University of California, San Diego - San Diego, United States

NIH profile

Overview

Publications 99	Datasets 2	Grants 17	Patents 49	Clinical Trials 0
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Citations
4,287

The information on this profile has been aggregated algorithmically from several different sources (including publication and public ORCID data).

PUBLICATIONS 99	DATASETS 2	GRANTS 17	PATENTS 49	CLINICAL TRIALS 0	POLICY DOCUMENTS SEARCH FOR THIS PROFILE
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Sort by: Publication Date

Title, Author(s), Bibliographic reference - About the metrics

Manufacturing Considerations for Producing and Assessing Decellularized Extracellular Matrix Hydrogels

Melissa J. Hernandez, Grace E. Yakutis, Emma I. Zelus, Ryan C. Hill, Monika Dzieciatkowska, Kirk C. Ha...
2020, Methods - Article

Citations: 1 | Add to Library | Add to ORCID

Enzyme-responsive progelator cyclic peptides for minimally invasive delivery to the heart post-myocardial infarction

Andrea S. Carlini, Roberto Gaetani, Rebecca L. Braden, Colin Luo, Karen L. Christman, Nathan C. Giann...
2019, Nature Communications - Article

Citations: 5 | Altmetric: 118 | View PDF | Add to Library | Add to ORCID

First-in-Man Study of a Cardiac Extracellular Matrix Hydrogel in Early and Late Myocardial Infarction Patients

Jay H. Traverse, Timothy D. Henry, Nabil Dib, Amit N. Patel, Carl Pepine, Gary L. Schaer, Jessica A. DeQ...
2019, JACC Basic to Translational Science - Article

Altmetric: 182 | View PDF | Add to Library | Add to ORCID

ANALYTICAL VIEWS

FIELDS OF RESEARCH

09 Engineering	46
0903 Biomedical Engineering	39
11 Medical and Health Sciences	31
06 Biological Sciences	29
0601 Biochemistry and Cell Biology	26

OVERVIEW

Citations
4 K

Citations (Mean)
43.30



Publications (total)

RESEARCHERS

- Karen Leigh Christman 99
University of California, San Diego, United States
- Rebecca L Braden 19
University of California, San Diego, United States
- Heather D Maynard 12
University of California, Los Angeles, United States
- Jessica A Dequach 12
University of Cincinnati, United States
- Roberto Gaetani 11
University of California, San Diego, United States

SOURCE TITLES

Acta Biomaterialia 7

Publication - Article

Biomaterials for tissue repair

Science, 363(6425), 340-341, January 2019

<https://doi.org/10.1126/science.aar2955>

Authors

Karen L. Christman - University of California, San Diego

Abstract

Not available.

Publication references - 14

A completely biological "off-the-shelf" arteriovenous graft that recellularizes in baboons

Zeeshan H. Syedain, Melanie L. Graham, Ty B. Dunn, Timothy O'Brien, Sandra L. Johnson, Robert J. Schumacher, Robert T. Tranquillo

2017, Science Translational Medicine - Article

Citations 29 Altmetric 91 Open Access Add to Library

Extracellular matrix-derived hydrogels for dental stem cell delivery

Aiswarya Viswanath, Julie Vanacker, Loic Germain, Julian G. Leprince, Anibal Diogenes, Kevin M. Shakesheff, Lisa J. White, Anne des Rieux

2017, Journal of Biomedical Materials Research Part A - Article

Citations 13 Altmetric 1 Open Access Add to Library

Bioengineered human acellular vessels for dialysis access in patients with end-stage renal disease: two phase 2 single-arm trials

Jeffrey H Lawson, Marc H Glickman, Marek Ilzecki, Tomasz Jakimowicz, Andrzej Jaroszynski, Eric K Peden, Alison J Pilgrim, Heather L Prichard, Malgorzata ...

2016, The Lancet - Article

Citations 114 Altmetric 250 Open Access Add to Library

Add to Library

Add to ORCID



Share

Export citation

Publication metrics [About](#)

Sorted by: Date

Dimensions Badge

	12	Total citations
	12	Recent citations
	n/a	Field Citation Ratio
	n/a	Relative Citation Ratio

Altmetric

	68	News (1)
	86	Twitter (86)
	7	Facebook (7)
	1	Google+ (1)
	1	Reddit (1)
	54	Mendeley (54)

Funded by

- National Heart Lung and Blood Institute
- National Institute of Mental Health
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- National Institute of Child Health and Human Development



Extracellular Matrix Hydrogel Promotes Tissue Remodeling, Arteriogenesis, and Perfusion in a Rat Hindlimb Ischemia Model

Publication Article in **JACC Basic to Translational Science**, published January 2016

Authors Jessica L. Ungerleider, Todd D. Johnson, Melissa J. Hernandez, Dean I. Ehag, Rebecca L. Braden... [\[show more \]](#)

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[View on publisher site](#)

Summary

Citations

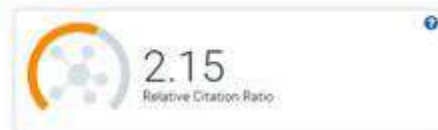
Citing research categories

i This is the public page for a publication record in *Dimensions*, a free research insights platform that brings together information about funding, scholarly outputs, policy, patents and grants.

This publication in **JACC Basic to Translational Science** has been cited **34 times**. 61% of its citations have been received in the past two years, which is **higher than you might expect**, suggesting that it is currently receiving a lot of interest.

Compared to other publications in the same field, **this publication is extremely highly cited** and has received approximately **12 times more citations** than average.

[View more details in Dimensions](#)



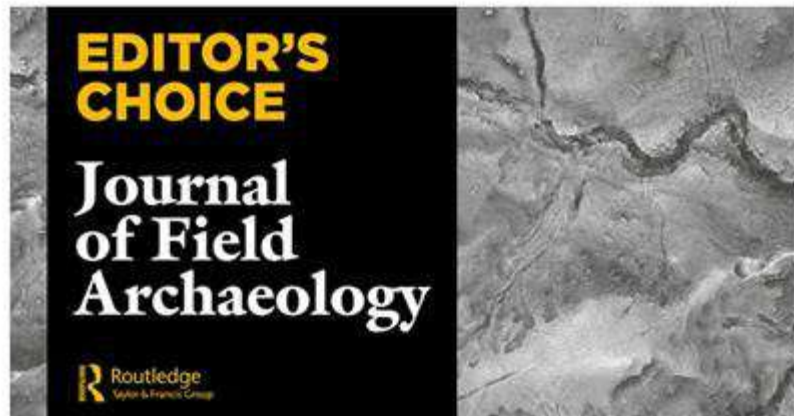
More Article-Level Metrics

- Downloads
- Rankings
- Highlighted



ACS Editors' Choice

One new peer-reviewed research article from any ACS journal will be selected to be freely available every day; the selection of these articles is based on recommendations by the scientific editors of ACS journals from around the world. As a service to our global community of researchers, the articles listed below will remain open for all to access and read.



We hope you enjoy The *Journal of Field Archaeology* Editor's selection of articles which demonstrate the breadth, quality and topical content of the journal, and are free to download.*

*Articles are free to access only via this page.

Journal of Field Archaeology

[Pencils and Pixels: Drawing and Digital Media in Archaeological Field Recording](#)

[Remote Sensing Soils and Social Geographies of Difference: The Landscape Archaeology of Regur from Iron Age through Medieval](#)

Books and Book Chapter Metrics

- Web of Science - Book Citation Index
- Google Scholar
- Altmetric (maybe)
- Dimensions

- Book Reviews - <https://ucsd.libguides.com/reviews>
- Open Syllabus Project
- Sales, Awards, Downloads, Library Holdings (<http://melvyl.worldcat.org>)
- Readings, Signings

Other Outputs

- Patents
Citations
- Performances - Installations - Exhibits
Attendance, reviews, views/shares, social media
- Presentations - Posters - Interviews
Attendance, views (slides/video), downloads, social media
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Downloads, citations
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Pervasive Transcription of the Human Genome Produces Thousands of Previously Unidentified Long Intergenic Noncoding RNAs

Fileset posted on 19.06.2013, 19:05 by Matthew J. Hargauer, Ian W. Vaughn, Michael T. McManus

Known protein coding gene exons compose less than 3% of the human genome. The remaining 97% is largely uncharted territory, with only a small fraction characterized. The recent observation of transcription in this intergenic territory has stimulated debate about the extent of intergenic transcription and whether these intergenic RNAs are functional. Here we directly observed with a large set of RNA-seq data covering a wide array of human tissue types that the majority of the genome is indeed transcribed, corroborating recent observations by the ENCODE project. Furthermore, using *de novo* transcriptome assembly of this RNA-seq data, we found that intergenic regions encode far more long intergenic noncoding RNAs (lincRNAs) than previously described, helping to resolve the discrepancy between the vast amount of observed intergenic transcription and the limited number of previously known lincRNAs. In total, we identified tens of thousands of putative lincRNAs expressed at a minimum of one copy per cell, significantly expanding upon prior lincRNA annotation sets. These lincRNAs are specifically regulated and

110 views 295 downloads 0 citations



READ THE PEER-REVIEWED PUBLICATION

Pervasive Transcription of the Human Genome Produces Thousands of Previously Unidentified Long Intergenic Noncoding RNAs

Alternative Outputs

Alternative Outputs

The screenshot shows the DRYAD dataset page for 'Extreme diversity in the songs of Spitsbergen's bowhead whales'. The page is divided into several sections: a header with the DRYAD logo, a main title, author information, publication details, a citation, an abstract, and a right-hand sidebar with navigation and metrics. A search bar is at the top right, and a circular progress indicator shows 13 items. The sidebar includes options to download the dataset (200 MB) and a PDF, a 'Data Files' section with a date of March 15, 2018, a 'Metrics' section with 684 views, 459 downloads, and 1 citation, and a 'Keywords' section with the word 'song'. A large black arrow points from the '13' in the circular progress indicator to the '459 downloads' metric.

DRYAD

Search

Explore Data | About | Help | Lo

Download dataset -- 200 MB

Download Data Publication (PDF)

13

Logged by 1
Tweeted by 7
Click for more details

Data Files

> March 15, 2018

Metrics

684 views

459 downloads

1 citations

Keywords

song

Data from: Extreme diversity in the songs of Spitsbergen's bowhead whales

Stafford, Kathleen M., University of Washington
Lydersen, Christian, Norwegian Polar Institute
Wiig, Oystein, University of Oslo
Kovacs, Kit M., Norwegian Polar Institute

Publication date: March 15, 2018
Publisher: Dryad
<https://doi.org/10.5061/dryad.1ck400f>

Citation

Stafford, Kathleen M.; Lydersen, Christian; Wiig, Oystein; Kovacs, Kit M. (2018), Data from: Extreme diversity in the songs of Spitsbergen's bowhead whales, Dryad, Dataset, <https://doi.org/10.5061/dryad.1ck400f>

Abstract

Almost all mammals communicate using sound, but few species produce complex songs. Two baleen whales sing complex songs that change annually, though only the humpback whale (*Megaptera novaeangliae*) has received much research

Alternative Outputs

<https://github.com/mgymrek>



Melissa Gymrek
mgymrek

UCSD

La Jolla, CA

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Overview

Repositories 39

Projects 0

Stars 20

Followers 86

Following 12

Popular repositories

pybamview

Browser based application for viewing bam alignments

Python ★ 51 🍴 15

lobstr-code

lobSTR: a short tandem repeat profiler for next generation sequencing data

C++ ★ 42 🍴 15

django-personal-website

Template for making a personal website using django. Includes set up of a home page and publications page. Instructions given on how to create additional pages and how to serve it from Amazon.

JavaScript ★ 29 🍴 16

pybeeswarm

Beeswarm plots for python

Python ★ 23 🍴 7

itable

Make pretty tables in IPython notebooks

Python ★ 17 🍴 7

docker-rstudio-server


Docker container that runs rstudio server

Shell ★ 14 🍴 11

Alternative Outputs

YouTube


Search



Ep15 Thermomechanical properties of polymers & thermal transitions. UCSD, NANO 101, Darren Lipomi

4,276 views • Feb 15, 2017

47 1 SHARE SAVE ...

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4.9K subscribers

SUBSCRIBE

Thermomechanical properties of polymers and the micro/nano/molecular transitions that occur.

<https://www.youtube.com/user/djlipomi/playlists>

Sometimes, just Google (or Google Scholar) It

- Mentions in course syllabi not covered in Open Syllabus Project
 - Limit search by domain for education institutions - site:.edu, site:.ca, site:.uk, etc.
- Mentions of your software that might come up in the Google/GS full text searching.
- Acknowledgements
 - Web of Science does have advanced search feature: FT=_____ (FT = funding text)

Working with Metrics

Identify Your Priorities

Choose the Right Metrics (and Tools)

<https://www.metrics-toolkit.org/>

Track and Gather

Use Appropriately and Strategically

Improve/Increase

Track and Gather

1. First:

- a. Google Scholar Profile
- b. ORCID <http://ucsd.libguides.com/orcid-athon/basics>
- c. Publons/Researcher ID (maybe)

2. Also:

- a. Alerts: Google, Altmetric
- b. Web of Science Ref Searching
- c. Downloads, Other Engagement (annual?)
- d. People Counts - Events
- e. Qualitative Information and Rankings

Using the Metrics Appropriately and Strategically

- Relevance
- Accuracy, Authority, Scope, Reliability²
- Timeframe
- Use Quantitative to Make Qualitative Case (context)
 - Who, How vs Numbers

1. <https://www.slideshare.net/goldenphizzwizards/coates-evidence-demonstrateimpactreputationoverview20120906>

- Use **percentiles** to provide context for any metrics you include (e.g. “My research is in the 95th percentile of all research published in *PLOS Genetics* in 2015.”)
- Use only those **metrics and data that directly support your claims** of impact
- Use **compelling full-text evidence** that makes it clear who’s discussing your research, how they are using it, and why it is influential

Personal Statement (aka the Tenure Narrative)

The Personal Statement provides an opportunity to dig down into full-text mentions of your work from around the Internet. Refer to the Altmetric details pages for your publications to find engagement that helps build a picture of your professional profile. This could be the abstract page on the publisher site, or your institutional repository, for example.

“To date, my research has had considerable influence on maternal health outcomes in the developing world, as shown by its recommendation in a recent World Health Organization brief for Lilliputian doctors.”

Scholarship Evaluation

Draw attention to the most compelling altmetrics data for your work—specifically, the attention data that you believe characterises you as a leader in your field. This is also another good place to include qualitative evidence, rather than metrics.

“My research has been consistently cited in mainstream media with broad international readership, such as the BBC, and has had positive Publons reviews.”

Grants

Use altmetrics to show the attention associated with materials that were published following the grant, especially non-traditional outputs like datasets and software.

“The software package I created thanks to this NSF grant is now used by over 150 labs worldwide in their own analyses.”

Outreach and Engagement

Use altmetrics to find and highlight the reach and visibility of your work - including any useful interactions that members of the public or key influencers have had with the research.

“Through participation in social media events like Twitter’s #AskADrSunday, I’ve connected with over 15,000 members of the general public in Toronto and used that platform to raise awareness of my research amongst local community members.”

Use Cases

H. Wang, P.P. Mercier, "Near-Zero-Power Temperature Sensing via Tunneling Currents Through Complementary Metal-Oxide-Semiconductor Transistors," *Scientific Reports*, vol. 7, no. 4427, Jun. 2017. (doi:10.1038/s41598-017-04705-6) [paper OPEN SOURCE] (highlighted in many press articles such as *Yahoo News*, *The Engineer*, and others, putting it in the top 5% of all research outputs as scored by *Altmetric*)

<http://efficiency.ucsd.edu/publications/>

OUTREACH@SCALE My Python Tutor educational website `pythontutor.com` has so far accumulated over 3.5 million total users from over 180 countries. My personal website `pgbovine.net` contains over 400 articles, videos, and podcast episodes on topics ranging from research to education, and receives over 750,000 page views per year. My YouTube channel has over 200 research, education, and outreach videos, over 2,500 subscribers, and ~300,000 total video views. My Twitter social media account has ~7,000 followers and has been officially verified by the company as a notable account of public interest.

<http://www.pgbovine.net>

Use Cases

<https://asfriedman.physics.ucsd.edu/>

56 SCIENTIFIC PUBLICATIONS

h-index: **18**, g-index: **42** ([NASA/ADS](#)), Citations: **1989**, Top 1st author: **193** ([Google Scholar](#))
Refereed: **27** (Accepted: **27**, Submitted: **0**), In prep: **3** 1st/2nd author Refereed: **12**, In prep: **3**
Non-Refereed: **29** (Conference: **2**, Popular: **12**, Circulars: **15**) 1st author non-refereed: **18**

ALTERNATIVE METRICS

- 5 articles since 2014 ([1](#), [2](#), [3](#), [4](#), [5](#)) in top 5% of all research outputs scored by [Altmetric.com](#), each in **97-99th** percentile for High Attention Score compared to outputs of same age and source.
- Articles [1](#), [5](#) among highest scoring outputs (top 0.2% all time) from *Physical Review Letters*.
- **241** online mentions on [Impactstory.org](#). [Top publication](#) saved and shared **98** times (Only **13%** of researchers get this much attention).
- Only **8%** of researchers this highly Cited in Wikipedia ([1](#), [2](#), [3](#), [4](#)).

Rauch, D., Handsteiner, J., Hochrainer, A., Gallicchio, J., **Friedman, A.S.**, + 2018, “Cosmic Bell Test Using Random Measurement Settings from High-Redshift Quasars”, *Physical Review Letters*, Vol. 121, Issue 8. id. 080403 ([arXiv:1808.05966](#)) ([DOI](#)) [Editor’s Suggestion]

Handsteiner, J., **Friedman, A.S.**+ 2017, “Cosmic Bell Test: Measurement Settings from Milky Way Stars”, *Physical Review Letters*, Vol. 118, Issue 6. id. 060401 ([arXiv:1611.06985](#)) ([DOI](#)) [Featured in Physics, Editor’s Suggestion]

Overview

Dr. Ayers is committed to getting the public back in public health, by harnessing big media data (including Internet search queries, news media, social media, and online networks) to listen to the public voicing their health needs in near real time. Beginning in 2011 he showed electronic cigarettes were the most popular smoking alternative on the market, being the first to predict their rise. This study has been followed by several examples of unique discoveries making public health science more responsive to the public and more effective in the process. For instance, his recent JAMA Internal Medicine report describing how Charlie Sheen's HIV-positive disclosure prompted record-levels of public engagement with condoms, HIV symptoms, and HIV testing was covered in more than 6,000 news outlets and trended on both Facebook and Twitter. The publication of this report was later linked to a significant increase in HIV testing and made more impactful by partnering with several medical device makers to implement follow-up campaigns encouraging at-home HIV testing and condom use. His work has also been trans-disciplinary (e.g., he has published with more than 60 different collaborators, from more than 50 different research institutes representing many fields, such as applied mathematics, climatology, communications, computer science, economics, engineering, political science, sociology, and more). Dr. Ayers has published more than 60 peer-reviewed articles and several commentaries/op-eds, many of which rank in the very top of Altmetric's research rankings (including one study that ranked among the top 1,000 most circulated articles of all time). He has an h-index of 26 (26 publications with 26 or more citations). Dr. Ayers is a frequently featured expert in the international media, including coverage in traditional news (e.g., ABC, BBC, CBC, CBS, CNN, Fox, NBC, NPR, etc.), tech or business focused news (e.g., Bloomberg, Forbes, Popular Science, Scientific American, Wired, etc.), and entertainment news (e.g., Dr. Drew, Dr. Oz, Perez Hilton, Rolling Stone, Saturday Night Live, etc.). Dr. Ayers is committed to promoting rapid improvements in public health science and leveraging public health science to save lives.

Responses to Addiction Help-Seeking from Alexa, Siri, Google Assistant, Cortana, and Bixby Intelligent Virtual Assistants

Alicia Nobels, Eric C. Leas, Theodore L. Caputi, Shu-Hong Zhu, Steffanie A. Strathdee, John W. Ayers
Nature Digital Medicine. 2020;3(11):doi.org/10.1038/s41746-019-0215-9.

| [Yahoo!](#) | [Forbes](#) | [Medscape](#) | [WebMD](#) | [The Sun](#) | [The Sunday Times](#) | [MEAWW](#) | [O' Globo](#) |

* Via [Agence France-Presse](#) this study was covered in numerous print outlets, including the Sunday Times (of South Africa), The Malaysian Mail, Times of India, Times of London, etc.

Requests for Diagnoses of Sexually Transmitted Diseases on a Social Media Platform

Alicia Nobels, Eric C. Leas, Mark Dredze, Christopher A. Longhurst, Davey Smith, John W. Ayers
JAMA. 2019;322(17):1712-1713.

[NBC](#)	[CNN](#)	[ABC](#)	[US News & World Report](#)	[CNBC](#)	[Forbes](#)	[New York Post](#)	[Raw Story](#)	
[Reuters](#)	[Medscape](#)	[Daily Mail](#)	[Refinery 29](#)	[Healio](#)	[BGR](#)	[Futurism](#)	[Cnet](#)	[Stuff](#)
[Business Insider](#)	[Drugs.com](#)	[10 Daily](#)	[MedPage Today](#)	[Health Day](#)	[iNews](#)	[Union Tribune](#)		
[New Zealand Herald](#)	[Mpravda](#)	[Yahoo!](#)	[News Beezer](#)	[Silicon Republic](#)	[Mic](#)	[Becker's Health IT](#)		
[Global Times China](#)	[The Star](#)	[Healthline](#)	[Vice](#)	[Bustle](#)	[Breitbart](#)	[MSN](#)	[Mens Health](#)	[Dr. Oz](#)

* Ranked in the top 1% of all research scored by Altmetric

* Ranked in the top 10 in JAMA for the year by Altmetric.

* Watch Medscape's [Impact Factor](#) with Dr. F. Perry Wilson

* Via [Agence France-Presse](#) this study was covered in more than 1,000 print outlets, including Phnom Penh Post, Bangkok Post, Sunday Times (of South Africa), Times of India, Times of London, etc.

Trends in Internet Searches for Cannabidiol (CBD) in the United States

Eric C. Leas, Alicia Nobels, Theodore L. Caputi, Mark Dredze, Davey Smith, John W. Ayers
JAMA Open. 2019;2(10):e1913853.

| [ABC](#) | [USA Today](#) | [Time](#) | [Good Morning America \(GMA\)](#) | [Vice](#) | [US News & World Report](#) |
| [STAT News](#) | [Healthline](#) | [Daily Mail](#) | [Medical News Today](#) | [Union Tribune](#) |

* Ranked in the top 1% of all research scored by Altmetric

* Watch a live interview from [Fox News](#) on the dangers of CBD and marijuana

Ignoring Data Delays our Reaction to Emerging Public Health Tragedies Like 13 Reasons Why

Eric C. Leas, Mark Dredze, John W. Ayers
JAMA Psychiatry. 2019;2755.

* Two years after our popular [JAMA Internal Medicine](#) study traditional data [confirmed](#) our earlier conclusions but ignored those data. Why ignore and more importantly wait two years to react when lives are on the line?

Harnessing Digital Data and Data Science to Achieve 90-90-90 Goals to End the HIV Epidemic

Steffanie A. Strathdee, Alicia Nobels, John W. Ayers
Current Opinions in HIV and AIDS 2019;14(6):481-485

The Need for Federal Regulation of Marijuana Marketing

John W. Ayers, Theodore L. Caputi, Eric C. Leas

JAMA. 2019;doi:10.1001/jama.2019.4432.

| [New York Times](#) | [NPR](#) | [KPBS](#) | [Barrons](#) | [Kaiser Health News](#) | [Union Tribune](#) |

* Ranked in the top 1% of all research scored by Altmetric

Media Trends for the Substance Abuse and Mental Health Services Administration 800-662-HELP Addiction Treatment Referral Services After a Celebrity Overdose

John W. Ayers, Alicia Nobels, Mark Dredze

JAMA Internal Medicine. 2018;doi:10.1001/jamainternmed.2018.6562.

| [Reuters](#) | [US News & World Report](#) | [Futurity](#) | [Medical Research](#) | [The Hub](#) | [Global Health](#) |
| [Union Tribune](#) |

* Ranked in the top 1% of all research scored by Altmetric

Internet Searches for Sexual Harassment and Assault, Reporting, and Training Since the #MeToo Movement

Theodore L. Caputi, Alicia Nobels, John W. Ayers,

JAMA Internal Medicine. 2018;doi:10.1001/jamainternmed.2018.5094.

| [Reuters](#) | [Los Angeles Times](#) | [Bloomberg](#) | [Bustle](#) | [US News & World Report](#) | [The Star](#) | [Ebony](#) |
| [Medical Research](#) | [Live Mint](#) | [Psychology Today](#) | [Tech2](#) | [Medical Bag](#) |

* Ranked in the top 1% of all research scored by Altmetric

Use Cases

Patterson RE & **Sears DD**. (2017) Metabolic Effects of Intermittent Fasting. Annual Review of Nutrition. 2017 Aug 21; 37:371-393. [PMID: 28715993](#). One time free access to PDF [here](#).

*Note: Annual Reviews published 1,098 review articles across 47 disciplines in 2017. This review was one of the 10 most downloaded from their website in 2017 as of January 2018 (only 5 months after publication date). It was one of the top 10 read Annual Reviews articles in 2018, **overall**. As of May 2018, the review has an Altmetric Attention Score of 155, which sets it 1) in the top 5% of all research outputs scored by Altmetric, 2) as one of the highest-scoring outputs from Annual Reviews (#3 of 411), and 3) in the 98th percentile compared to other scholarly outputs of the same age. First reference in citation list for WebMD slideshow "[Fasting: What You Should Know](#)."*

Chung H, Chou W, **Sears DD**, Patterson RE, Webster N, Ellies LG. (2016) Time-restricted feeding improves insulin resistance and hepatic steatosis in a mouse model of postmenopausal obesity. Metabolism. 2016 Dec; 65(12):1743–1754. [PMID: 27832862](#). PMCID: PMC5123758.

Note: Featured article in May 2017 Nutrition Frontiers, the newsletter of the Nutritional Science Research Group (NCI, NIH), chosen based on scientific merit, innovation, and potential public health impact.

Marinac CR, Nelson SH, Breen CI, Flatt SW, Hartman SJ, Natarajan L, **Sears DD**, Pierce JP, Patterson RE. Prolonged Nightly Fasting and Breast Cancer Prognosis. (2016) JAMA Oncology. 2016 Aug; 2(8):1049-55. [PMID: 27032109](#). PMCID: PMC4982776.

Note: Featured in the 2016 Research Highlights of the Epidemiology and Genomics Research Program (NCI, NIH), deemed to have the greatest potential for scientific and/or public health impact.

1. Ehrlich C, Iker E, Herbst K, Kahn LA, **Sears DD**, Kenyon M, and McMahon E. (2015) *Lymphedema and Lipedema Nutrition Guide: foods, vitamins, minerals, and supplements*. San Francisco, CA; Lymph Note [More than 10,000 copies sold as of August 2018.]

Use Cases

- <http://slangelab.ucsd.edu/publications.html>
- <https://www.ess.uci.edu/~sjdavis/index.html>
- <https://moffittcaspi.trinity.duke.edu/publications?page=1>
- <http://sdcsb.ucsd.edu/research/program-1/>

- https://faculty.washington.edu/sr320/?page_id=246
 - https://faculty.washington.edu/sr320/?page_id=3577

- <https://maestrelab.blogspot.com.es/2014/11/how-i-use-altmetrics-data-in-my.html>

Use Cases

- <https://drive.google.com/file/d/0BzVyoVbp68fZU2tqTVNfZHIaMDIVczRJb0VZWXB1VjdDMHBV/view> - Trevor Branch, University of Washington
- https://github.com/sr320/LabDocs/blob/master/Roberts_SB_Tenure_2.pdf - Steven Roberts, University of Washington

Education: Outreach and Science Communication

While maybe not traditionally considered a component of faculty responsibilities, I consider engaging with persons outside of Academia to be a core aspect of my program. This is an aspect that I try to integrate into research, classroom teaching, and mentoring. Central to

Next Steps - Promoting Your Work

Write a lay summary of your research and introduce it via relevant discussion lists and online forums.

Upload and make available data, images, posters and other files via a platform such as figshare.

Start your own blog (or contribute to an existing one) - it's a great way to build your online profile and position your research.

Reach out to key bloggers to make them aware of your work - look at the Altmetric details pages for other articles in your discipline to see who might be interested.

Include a link to your work in your email signature, online profiles or CV.

Work with the press office at your publisher or institution to announce the publication of your research.

Share links to your work via twitter and other social media after presenting at conferences.

Register for an ORCID ID and populate your profile so that others can easily discover your work.

Make your work available via Open Access wherever possible, and share links to your full text outputs on social media.

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