

RCR Summer Seminar Series

Introduction to Research Metrics and Impact

Terry Selfe
Suzanne Stapleton
Tara Cataldo



Agenda

- Introduction
- Item level metrics
- Author level metrics
- Container (journals, books, etc.) level metrics
- Conclusion

- Q&A
- Breakout rooms
- Slides and resources will be available afterward



Ojectives

- Describe how metrics are used to assess research impact
- Identify sources for commonly used metrics for item level, author level and journal level impact assessment
- Appraise the appropriate contextual use of research metrics



Poll: What research metrics
have you explored?



Research Metrics and Bias



Image: Lyubov Ivanova/iStock

Item Level Metrics



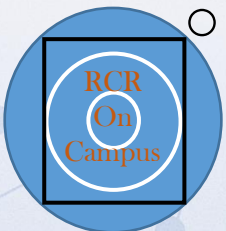
Item level

- Posters / Presentations
 - Abstracts
 - Conference proceedings
- Journal articles
- Book chapters
- Books
 - Item or container



Citation count

- What is it?
 - The number of times your article was cited
 - Specific to database
- What are its uses?
 - Show that others have used your work
 - Raw numbers
- Where do I find it?
 - Google Scholar
 - Dimensions
 - Web of Science



Citation count in Google Scholar

- Cited By
- <https://scholar.google.com>

The screenshot shows the Google Scholar interface. At the top, the Google Scholar logo is on the left, a search bar with the text 'selfe t' is in the center, and a magnifying glass icon is on the right. Below the search bar, there are links for 'My profile', 'My library', and a notification bell. The main content area displays search results for 'selfe t'. On the left, there are filters for 'Any time', 'Since 2019', 'Since 2018', 'Since 2015', and 'Custom range...'. The first result is titled '[HTML] Prevalence of restless legs syndrome in North American and Western European populations: a systematic review' by KE Innes, TK Selfe, and P Agarwal, published in Sleep medicine, 2011 - Elsevier. The abstract mentions that Restless legs syndrome (RLS) is a potentially debilitating sleep disorder that affects a significant percentage of North American and European adults. The citation count 'Cited by 131' is circled in green. Other links include 'Related articles', 'All 6 versions', 'Web of Science: 97', and 'Import into EndNote'. A link to '[HTML] sciencedirect.com' is also present.

Google Scholar

selfe t

Articles About 40,100 results (0.09 sec)

My profile My library

[HTML] Prevalence of restless legs syndrome in North American and Western European populations: a systematic review

KE Innes, TK Selfe, P Agarwal - Sleep medicine, 2011 - Elsevier


Background Restless legs syndrome (RLS) is a potentially debilitating sleep disorder that affects a significant percentage of North American and European adults. Although standardized RLS diagnostic criteria are now established and widely accepted, reported ...



☆ 131 Cited by 131 Related articles All 6 versions Web of Science: 97 Import into EndNote

[HTML] sciencedirect.com

Citation count in Dimensions

- Total Citations
- <https://www.dimensions.ai/>

 Dimensions

 21752711
Free text in full data 

Save / Export Support Register Log in

Publication - Article

Prevalence of restless legs syndrome in North American and Western European populations: A systematic review


[Sleep Medicine](#), 12(7), 623-634, 2011
<https://doi.org/10.1016/j.sleep.2010.12.018>


Authors


[Kim E. Innes](#) - West Virginia University; University of Virginia Health System
[Terry Kit Selfe](#) - West Virginia University; University of Virginia Health System
[Parul Agarwal](#) - West Virginia University


Abstract

BACKGROUND: Restless legs syndrome (RLS) is a potentially debilitating sleep disorder that affects a significant percentage of North American and European adults. Although standardized RLS diagnostic criteria are now established and widely accepted, reported prevalence estimates have varied widely. In this paper, we review the literature regarding RLS prevalence in North American and Western European adult populations, examine potential sources of variation, briefly discuss the impact of RLS, and offer recommendations for future research. METHODS: To identify qualifying studies, we searched 6 scientific databases and scanned bibliographies of relevant review papers and all identified articles. Studies including fewer than 300 participants, that did not use any of the 4 standard diagnostic criteria, were published prior to 1995 or targeted clinical populations were excluded. RESULTS: Thirty-four papers detailing results of large, population-based studies in 16 North American and Western European countries met our inclusion criteria, including 5 multi-country studies (N=69,992 participants) and 29 single country studies (N=163,188 participants); all but one were cross-sectional. Reported general prevalence rates ranged from 4% to 29% of adults, averaging 14.5±8.0% across studies. Reported prevalence averaged higher in primary

 Open Access


 Add to Library


 Share


Export citation 


Publication metrics [About](#)


Dimensions Badge

 98


 **98** Total citations


 26 Recent citations


 12 Field Citation Ratio


 5.52 Relative Citation Ratio

Altmetric

 10

 News (1)

 Wikipedia (1)

 Mendeley (52)

Citation count in Web of Science

- Times Cited
 - By articles in WOS Core Collection

The screenshot displays the Web of Science interface. At the top, a navigation bar includes links to Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, EndNote, Publons, and Kopernio, along with Sign In, Help, and English options. The main header features the Web of Science logo and the Clarivate Analytics logo. Below the header, a search bar and navigation links (Tools, Searches and alerts, Search History, Marked List) are visible. The search results section shows one result, sorted by Date. The article title is "Prevalence of restless legs syndrome in North American and Western European populations: A systematic review" by Innes, Kim E.; Selfe, Terry Kit; Agarwal, Parul, published in SLEEP MEDICINE. The article is highlighted with a green circle around the "Times Cited: 97" value. The interface also includes options to select the page, print, email, save to EndNote online, and add to the marked list. A "Create Alert" button is present on the left side of the results section.

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio Sign In Help English

Web of Science Clarivate Analytics

Search Tools Searches and alerts Search History Marked List

Results: 1
(from Web of Science Core Collection)

You searched for: PUBMED ID: (21752711) ...More

Create Alert

Refine Results

Search within results for...

Sort by: Date Times Cited Usage Count Relevance More

1 of 1

Select Page Print Email 5K Save to EndNote online Add to Marked List Analyze Results Create Citation Report

1. Prevalence of restless legs syndrome in North American and Western European populations: A systematic review

By: Innes, Kim E.; Selfe, Terry Kit; Agarwal, Parul

SLEEP MEDICINE Volume: 12 Issue: 7 Pages: 623-634 Published: AUG 2011

Find it @ UP Free Accepted Article From Repository View Abstract

Select Page Print Email 5K Save to EndNote online Add to Marked List

Times Cited: 97
(from Web of Science Core Collection)

Usage Count

Usage Count in Web of Science

- Look at the Usage Count for
 - Newer article(s) getting looked at even if not cited
 - Older article(s) currently getting attention (Last 180 days)

Results: 25
(from Web of Science Core Collection)

You searched for: AUTHOR IDENTIFIERS: (0000-0002-2181-2011) ...More

Create an alert

Refine Results

Search within results for...

Sort by: Date Times Cited **Usage Count** Usage Count (Last 180 days) More ▾

1 of 3

☐ Select Page [Export...](#) [Add to Marked List](#)

☐ 1. **Effects of Meditation versus Music Listening on Perceived Stress, Mood, Sleep, and Quality of Life in Adults with Early Memory Loss: A Pilot Randomized Controlled Trial**
By: Innes, Kim E.; Selfe, Terry Kit; Khalsa, Dharma Singh; et al.
JOURNAL OF ALZHEIMERS DISEASE Volume: 52 Issue: 4 Pages: 1277-1298 Published: 2016

[Find it @ UF](#) [Free Accepted Article From Repository](#) [View Abstract ▾](#)

Analyze Results
Create Citation Report

Times Cited: 30
(from Web of Science Core Collection)

Usage Count ^
Last 180 Days: 5
Since 2013: 64

Dimensions record: Additional metrics

 Dimensions

Embed badge

What is this page?

Share



Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials

Publication Article in **Journal of Diabetes Research**, published December 2015

Authors Kim E Innes, Terry Kit Selfe

[↓ More details](#)

FCR and RCR are normalized to 1.0

Summary

Citations

Citing research categories



This is the public page for a publication record in [Dimensions](#), a free research insights platform that brings together information about funding, scholarship, patents and grants.

This publication in **Journal of Diabetes Research** has been cited **58 times**. 55% 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 **14 times more citations** than average.



58
Citations



32
Recent citations



14.25
Field Citation Ratio



3.65
Relative Citation Ratio

<https://badge.dimensions.ai/details/id/pub.1001271554>

Altmetrics

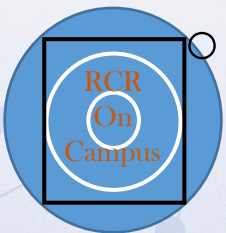


TOM GAULD


<https://twitter.com/tomgauld/status/808268915335897088>

Altmetrics

- What is it?
 - Alternative metrics count things such as number of times your article was tweeted about or covered in a news source or blog
- What are its uses?
 - Show how your work has been covered
 - More immediate feedback re: interest in article
 - Can reflect impact beyond the academy
- Where do I find it?
 - Dimensions
 - Publons



Altmetrics in Dimensions



Save / ExportSupportRegisterLog in

FILTERSFAVORITES

> PUBLICATION YEAR

> RESEARCHER

> RESEARCH CATEGORIES

> PUBLICATION TYPE

> SOURCE TITLE

> JOURNAL LIST

> OPEN ACCESS

About Dimensions · LinkedIn · Twitter

Privacy policy · Cookie settings · Legal terms

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PUBLICATIONS119,042,761

DATASETS8,451,860

GRANTS5,835,098

PATENTS136,670,466

CLINICAL TRIALS639,027

POLICY DOCUMENTS584,037

☐ Show abstractSort by: Relevance

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

[Inhibitory Control Across Athletic Expertise and Its Relationship With Sport Performance.](#)

Jack Hagyard, Jack Brimmell, Elizabeth J Edwards, Robert S Vaughan

2021, Journal of Sport and Exercise Psychology - Article

Citations4

Altmetric6

Open Access

Add to Library

[Effectiveness of Structured Physical Activity Interventions Through the Evaluation of Physical Activity Levels, Adoption, Retention, Maintenance, and Adherence Rates: A Systematic Review and Meta-Analysis.](#)

Nadja Willinger, James Steele, Lou Atkinson, Gary Liguori, Alfonso Jimenez, Steve Mann, Elizabeth Horton

2021, Journal of Physical Activity and Health - Article

Citations1

Altmetric10

Open Access

Add to Library

[Sustained Exposure to High Carbohydrate Availability Does Not Influence Iron-Regulatory Responses in Elite Endurance Athletes.](#)

Alannah K A McKay, Peter Peeling, David B Pyne, Nicolin Tee, Marijke Welvaart, Ida A Heikura, Avish P Sharma, Jamie Whitfield...

2021, International Journal of Sport Nutrition and Exercise Metabolism - Article

Citations1

Altmetric14

Open Access

Add to Library

< ANALYTICAL VIEWS

RESEARCH CATEGORIES

11 Medical and Health Sciences30,295,216

09 Engineering12,461,320

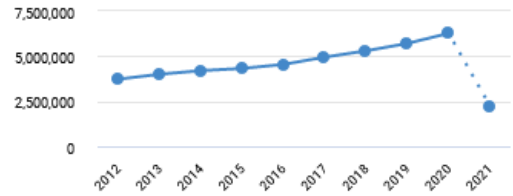
1103 Clinical Sciences11,219,052

06 Biological Sciences9,061,001

03 Chemical Sciences7,909,241

OVERVIEW

Citations1.4 BCitations (Mean)11.71



Publications (total)

Click to go to
Altmetric record

<https://app.dimensions.ai/discover/publication>

Altmetric Record

Effects of Meditation and Music-Listening on Blood Biomarkers of Cellular Aging and Alzheimer's Disease in Adults with Subjective Cognitive Decline: An Exploratory Randomized Clinical Trial

Overview of attention for article published in Journal of Alzheimer's Disease, November 2018



About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by

11 news outlets
2 blogs
1738 tweeters
1 Facebook page
1 video uploader

Citations

9 Dimensions

Readers on

161 Mendeley

SUMMARY

News

Blogs

Twitter

Facebook

Video

Dimensions citations

You are seeing a free-to-access but limited selection of the activity Altmetric has collected about this research output. [Click here to find out more.](#)

Title Effects of Meditation and Music-Listening on Blood Biomarkers of Cellular Aging and Alzheimer's Disease in Adults with Subjective Cognitive Decline: An Exploratory Randomized Clinical Trial
Published in Journal of Alzheimer's Disease, November 2018
DOI 10.3233/jad-180164 [↗](#)
Pubmed ID 30320574 [↗](#)
Authors Kim E. Innes, Terry Kit Selfe, Kathleen Brundage, Caitlin Montgomery, Sijin Wen, Sahiti Kandati... [\[show\]](#)

[View on publisher site](#)

[Alert me about new mentions](#)

Give date calculated
12 May 2021 score was 308

TWITTER DEMOGRAPHICS

MENDELEY READERS

ATTENTION SCORE IN CONTEXT

This research output has an **Altmetric Attention Score of 294**. This is our high-level measure of the quality and quantity of online attention that it has received. This Attention Score, as well as the ranking and number of research outputs shown below, was calculated when the research output was last mentioned on **24 January 2021**.

ALL RESEARCH OUTPUTS

#59,810
of 16,729,962 outputs

OUTPUTS FROM JOURNAL OF ALZHEIMER'S DISEASE

#43
of 5,160 outputs

OUTPUTS OF SIMILAR AGE

#2,020
of 330,285 outputs

OUTPUTS OF SIMILAR AGE FROM JOURNAL OF ALZHEIMER'S DISEASE

#2
of 144 outputs

Older research outputs will score higher simply because they've had more time to accumulate mentions. To account for age we can compare this Altmetric Attention Score to the 330,285 tracked outputs that were published within six weeks on either side of this one in any source. This one has done particularly well, scoring **higher than 99% of its contemporaries**.

Score is higher than 99% of articles of similar age

<https://dimensions.altmetric.com/details/49869269#score>

Beyond the Numbers

- Look at the articles citing yours in WoS, GS, Dimensions
 - Anything you want to draw attention to?
 - E.g., International reach; Cited by influential articles/sources
 - Practice guidelines, policy statements, etc.

The screenshot displays the Web of Science interface. At the top, a navigation bar includes links to 'Web of Science', 'InCites', 'Journal Citation Reports', 'Essential Science Indicators', 'EndNote', 'Publons', 'Kopernio', 'Master Journal List Sign In', 'Help', and 'English'. The 'Web of Science' logo is prominently displayed on the left, and the 'Clarivate Analytics' logo is on the right. Below the navigation bar is a search bar with the text 'Search' and a dropdown menu for 'Tools'. To the right of the search bar are links for 'Searches and alerts' and 'Se'. A green callout box with the text 'Look at citing articles' points to the 'Citation Network' section on the right side of the page. The main content area shows a search result for the article 'Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials' by Innes, KE (Innes, Kim E.) and Selfe, TK (Selfe, Terry Kit). The article is published in the 'JOURNAL OF DIABETES RESEARCH' in 2016. The 'Citation Network' section on the right indicates that the article is in the 'Web of Science Core Collection' and has been cited 34 times.

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio Master Journal List Sign In Help English

Web of Science Clarivate Analytics

Search Tools Searches and alerts Se

Find it @ UP Free Full Text from Publisher Look Up Full Text Full Text Options Export... Add to Marked

1 of 1

Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials

By: Innes, KE (Innes, Kim E.)^[1,2]; Selfe, TK (Selfe, Terry Kit)^[1,2]
[View Web of Science ResearcherID and ORCID](#)

JOURNAL OF DIABETES RESEARCH
Volume: 2016

Citation Network
In Web of Science Core Collection
34
Times Cited

Look at citing articles

WoS Citing Articles

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio Master Journal List

Sign In ▾ Help ▾ English ▾

Web of Science



Search

Tools ▾ Searches and alerts ▾ Search History Marked List

Citing Articles: 34

(from Web of Science Core Collection)

For: Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials [...More](#)

Times Cited Counts

35 in All Databases

34 in Web of Science Core Collection

0 in Arabic Citation Index

8 in BIOSIS Citation Index

1 in Chinese Science Citation Database

Sort by: Date Times Cited ▾ Usage Count More ▾

☐ Select Page

[Export...](#)

[Add to Marked List](#)

☐ 1. **Physical Activity/Exercise and Diabetes: A Position Statement of the American Diabetes Association**

By: Colberg, Sheri R.; Sigal, Ronald J.; Yardley, Jane E.; et al.

DIABETES CARE Volume: 39 Issue: 11 Pages: 2065-2079 Published: NOV 2016

[Find it @ UF](#)

[Free Full Text from Publisher](#)

Analyze Results

◀ 1 of 4 ▶

[Analyze Results](#)

[Create Citation Report](#)

Times Cited: 641

(from Web of Science Core Collection)

[Highly Cited Paper](#)

WoS Citing Articles

Web of Science



Results Analysis

[<<Back to previous page](#)

Showing **34 records**
for

Yoga for Adults with Type 2 Diabetes: A Systematic Review of
Controlled Trials.

[Create Citation Report](#)

Web of Science Categories

Publication Years

Document Types

Organizations-Enhanced

Funding Agencies

Authors

Source Titles

Book Series Titles

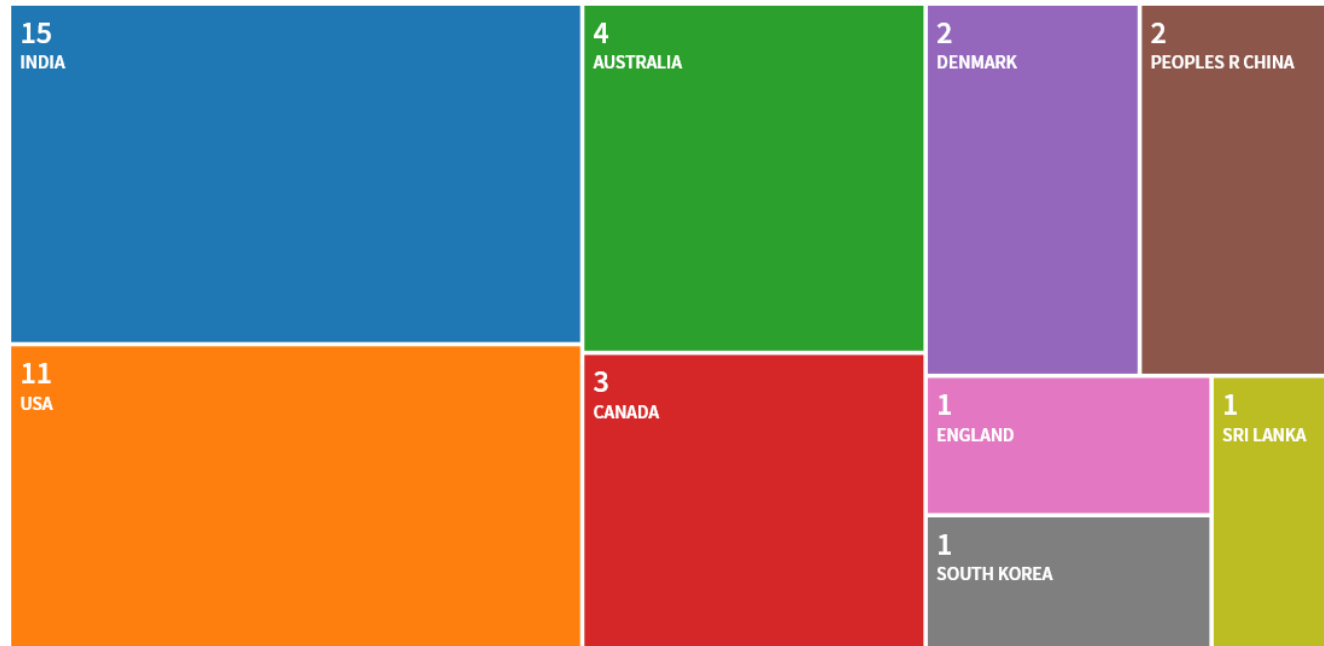
Countries/Regions

Visualization **Treemap**

Number of results **10**

[Download](#)

[Hide](#)



WoS Citing Articles

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio Master Journal List

Sign In Help English

Web of Science



Search

Tools Searches and alerts Search History Marked List

Citing Articles: 34

(from Web of Science Core Collection)

For: Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials [...More](#)

Times Cited Counts

35 in All Databases

34 in Web of Science Core Collection

0 in Arabic Citation Index

8 in BIOSIS Citation Index

1 in Chinese Science Citation Database

Sort by: Date Times Cited More

1 of 4

☐ Select Page

[Export...](#)

[Add to Marked List](#)

[Analyze Results](#)

[Create Citation Report](#)

☐ 1. **Physical Activity/Exercise and Diabetes: A Position Statement of the American Diabetes Association**

By: Colberg, Sheri R.; Sigal, Ronald J.; Yardley, Jane E.; et al.

DIABETES CARE Volume: 39 Issue: 11 Pages: 2065-2079 Published: NOV 2016

[Find it @ UP](#)

[Free Full Text from Publisher](#)

Times Cited: 641

(from Web of Science Core Collection)

[Highly Cited Paper](#)

Position statement of ADA
Highly cited

☐ 5. **Key Points from the Updated Guidelines on Exercise and Diabetes**

By: Colberg, Sheri R.

FRONTIERS IN ENDOCRINOLOGY Volume: 8 Article Number: 33 Published: FEB 20 2017

[Find it @ UP](#)

[Free Full Text from Publisher](#)

Times Cited: 19

(from Web of Science Core Collection)

[Usage Count](#)

Dimensions has 58 citing articles vs. 34 in WoS



Dimensions



e.g. plastic AND instrument

Publication - Article

Yoga for Adults with Type 2 Diabetes: A Systematic Review of Controlled Trials

Journal of Diabetes Research, 2016, 6979370 - December 2015

<https://doi.org/10.1155/2016/6979370>

Authors

Kim E Innes - West Virginia University; University of Virginia Health System

Corresponding Author

Terry Kit Selfe - West Virginia University; University of Virginia Health System

Abstract

A growing body of evidence suggests yogic practices may benefit adults with type 2 diabetes (DM2). In this systematic review, we evaluate available evidence from prospective controlled trials regarding the effects of yoga-based programs on adults with type 2 diabetes. To identify qualifying studies, we searched nine databases and identified articles. Controlled trials that did not target adults with type 2 diabetes, included only adults with type 1 diabetes, were under two-week duration, or did not include quantitative outcome measures were excluded. The review included 10 studies. The studies included 100 adults with type 2 diabetes. The studies included 100 adults with type 2 diabetes. The studies included 100 adults with type 2 diabetes.

Acknowledgements

This work was performed at West Virginia University and was supported by the National Center for Complementary and Alternative Medicine [Grant no. 1-K01-AT004108 to KEI] and West Virginia University (Faculty Incentive Award).

Publication citations - 58 [Show all](#)

Go to Altmetric policy document



View PDF



Add to Library



Share

Export citation

Publication metrics

Dimensions Badge



58

Total citations



32

Recent citations



14

Field Citation Ratio



3.65

Relative Citation Ratio

Altmetric



Blogs (1)

Policy documents (1)

Twitter (56)

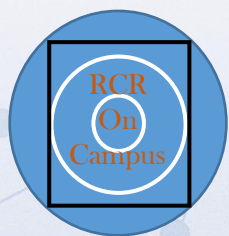
Facebook (5)

Mendeley (240)

CiteULike (2)

Sorted by: Date

<https://app.dimensions.ai/details/publication/pub.1001271554>



Author Level Metrics



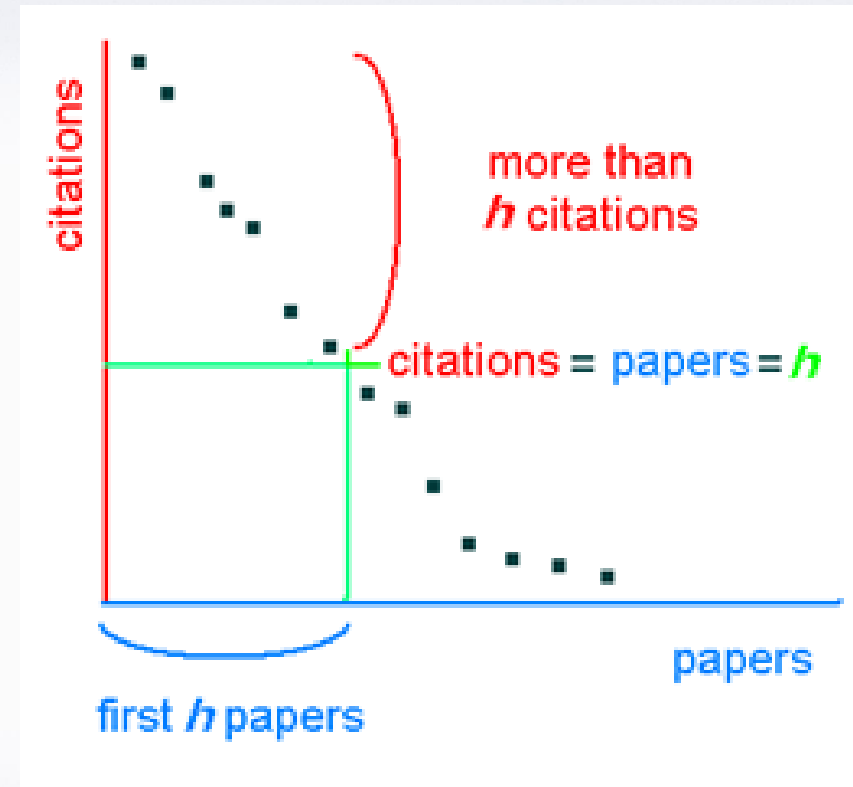
How do you show off your achievements?

- Awards & Recognitions
- Grants & Funding
- Publications
- Evidence of Expert Opinion
- Impact of Research



Impact of Research with the h -index

- J. E. Hirsch developed this metric to indicate "cumulative impact and relevance" of a researcher
- index h , defined as the number of papers with a citation number higher or equal to h



Hirsch, JE. 2005, doi:10.1073/pnas.0507655102

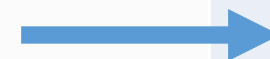
Image: <https://images.app.goo.gl/ZZP4bTLtLyFb3t3aA>



How to calculate your *h*-index

1. Collect your publications and the citation counts to each publication
2. Rank publications in order of most-cited to least-cited
3. Determine the rank of the publication where the number of citations is equal to, or greater than the rank.

Publication Rank	Citations (number)
1	256
2	53
3	28
4	17
5	8
6	8
7	6
8	4
9	3
10	3
11	3
12	2

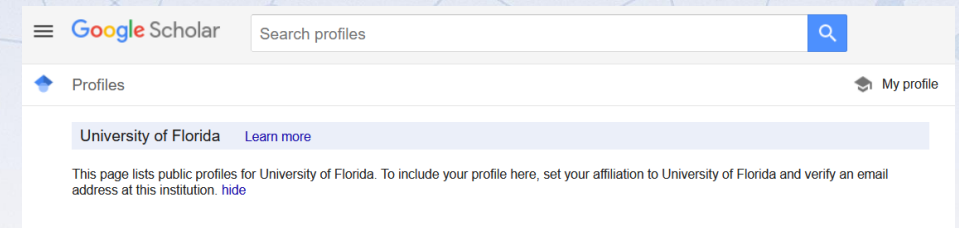


Examples where to find your *h*-index

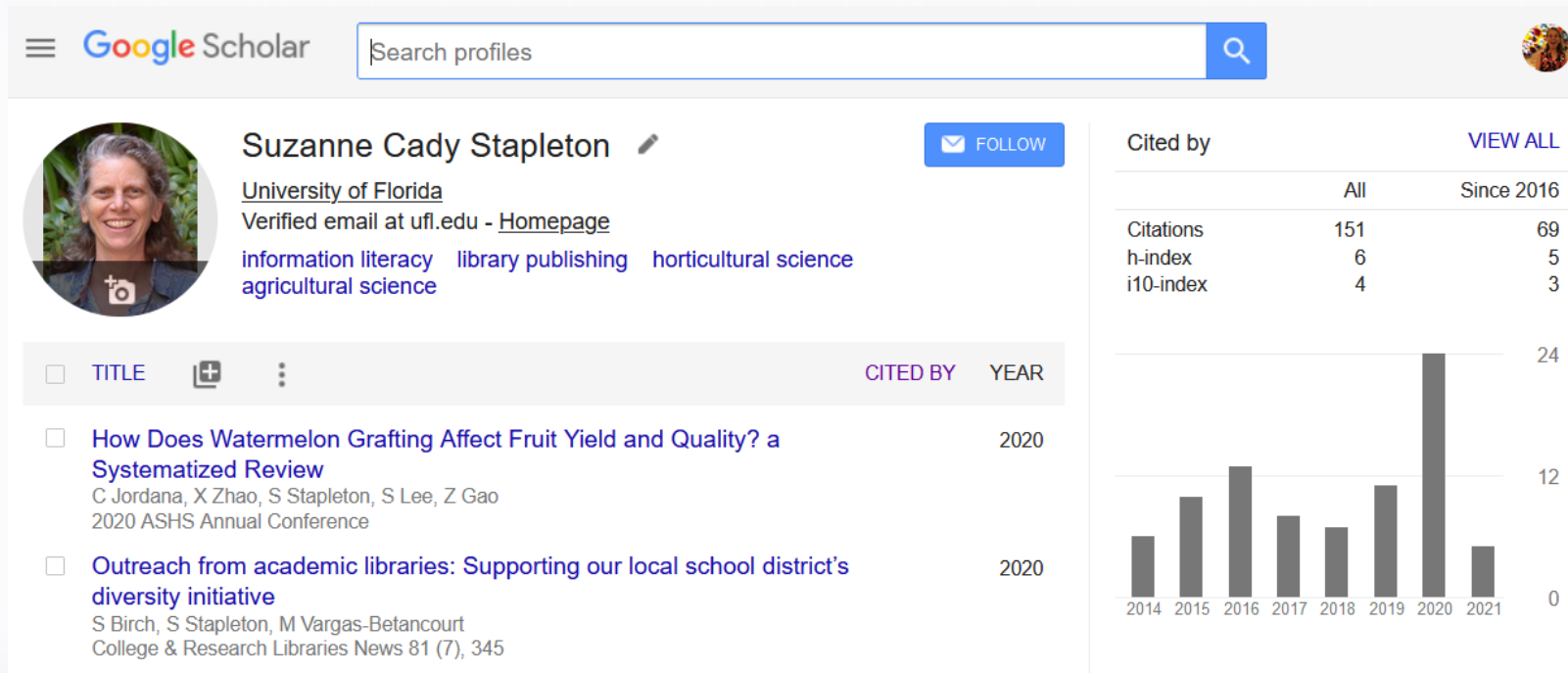
- Google Scholar (My Profile)
- Web of Science (create citation report)
- Scopus (NA at UF)
- Publish or Perish
(<https://harzing.com/resources/publish-or-perish>)



Google Scholar (My Profile)

This screenshot shows a Google Scholar search results page for the query 'suzanne cady stapleton'. The search bar at the top contains the text 'suzanne cady stapleton' and a magnifying glass icon. To the right of the search bar is a 'SIGN IN' link. Below the search bar, the word 'Articles' is displayed with a blue diamond icon. To the right of 'Articles' is the text 'About 108 results (0.03 sec)'. On the far right, there are two links: 'My profile' with a graduation cap icon and 'My library' with a star icon. A large blue arrow points to the 'My profile' link. On the left side, there are filters for 'Any time' (with sub-options: 'Since 2021', 'Since 2020', 'Since 2017', 'Custom range...') and 'Sort by relevance' (with sub-option: 'Sort by date'). Below these are checkboxes for 'include patents' (unchecked) and 'include citations' (checked), and a 'Create alert' button. The main content area shows 'User profiles for **suzanne cady stapleton**'. The first profile is for 'Suzanne Cady Stapleton' from the 'University of Florida', with a 'Verified email at ufl.edu' and 'Cited by 151'. Below this profile is a list of articles. The first article is 'Flowering and fruit set of pumpkin cultivars under field conditions' by 'SC Stapleton, HC Wien, RA Morse - HortScience, 2000 - journals.ashs.org'. It has a '[PDF] ashs.org' link. The second article is 'Libraries as publishing partners: promoting best practices in open access journals' by 'SC Stapleton - 2021 - esource.dbs.ie'. It has a '[PDF] dbs.ie' link. Each article entry includes a star icon, a citation count, and links for 'Related articles' and 'All versions'. At the bottom of each article entry are buttons for 'Read & annotate PDF' and 'Add to wizdom.ai'.

h-index sources: Google Scholar Profile

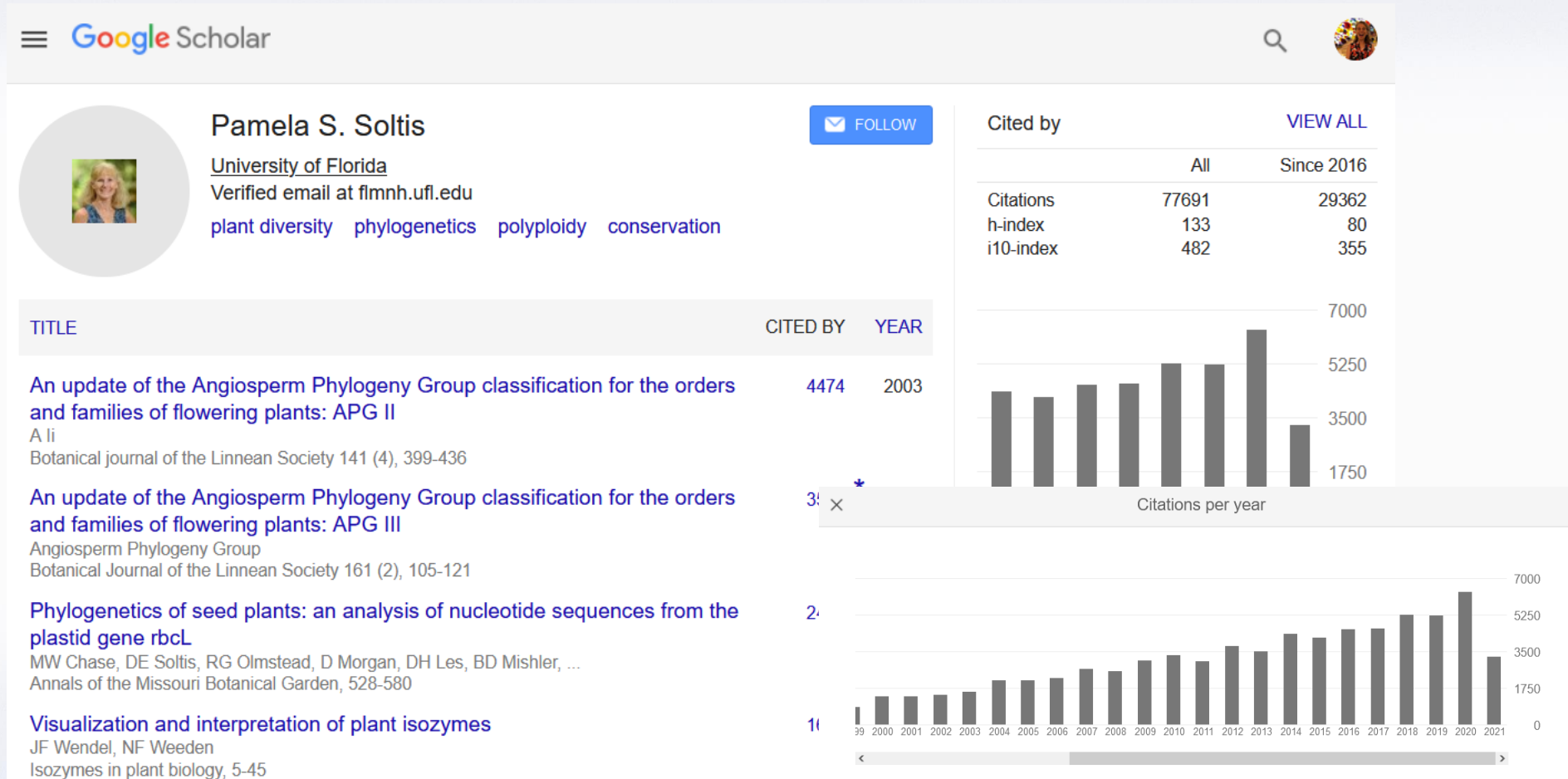


h-index

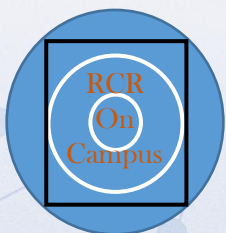
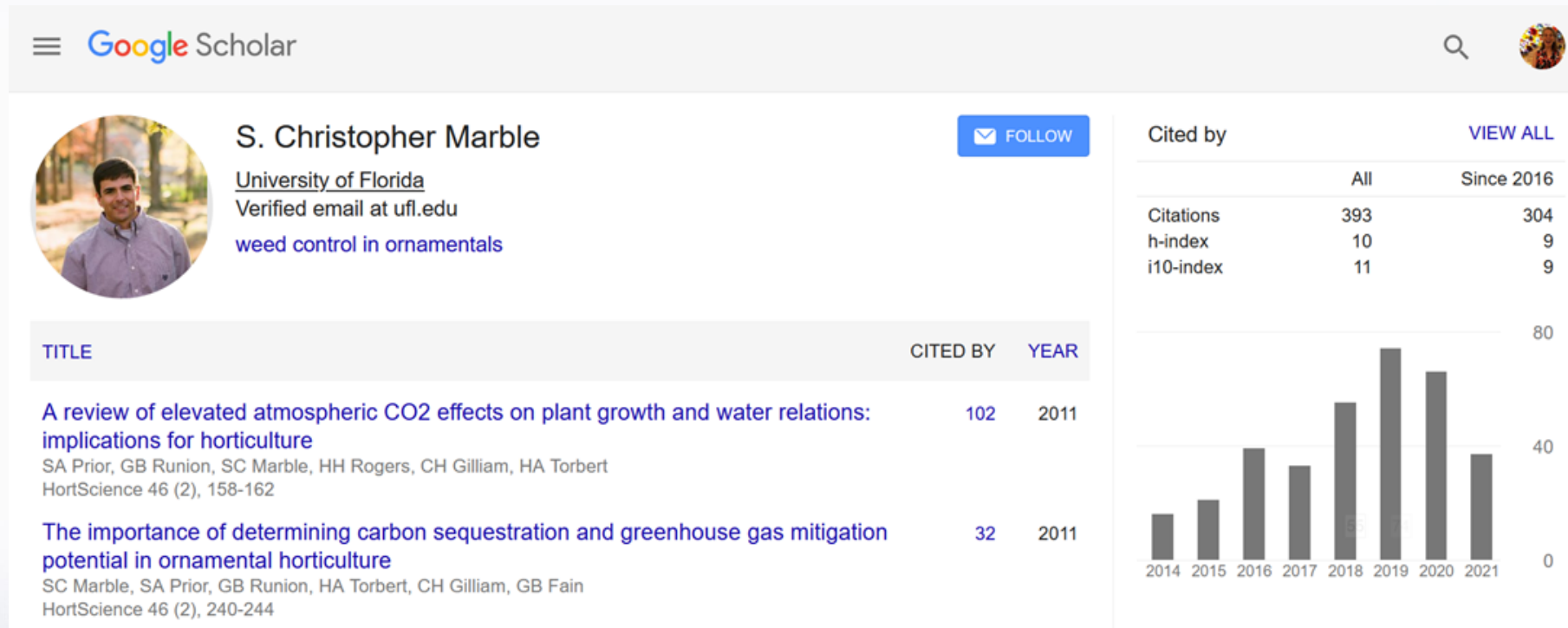
i10 index (only in Google Scholar; number of publications with at least 10 citations)



Google Scholar Profile: Established Scholar



Google Scholar Profile: Early Career Scholar



h-index sources: Web of Science

Select a database Web of Science Core Collection ▼

Basic Search Author Search^{WOS} Cited Reference Search Advanced Search

marble ✕ Author ▼

Select from Index

And ▼ university of florida or Auburn University ✕ Organization-Enhanced ▼

Select available organizations from the Index
Finds papers from organizations with identified name variants.

1. Search for Author
2. Analyze results
3. Create Citation Report



h-index sources: Web of Science

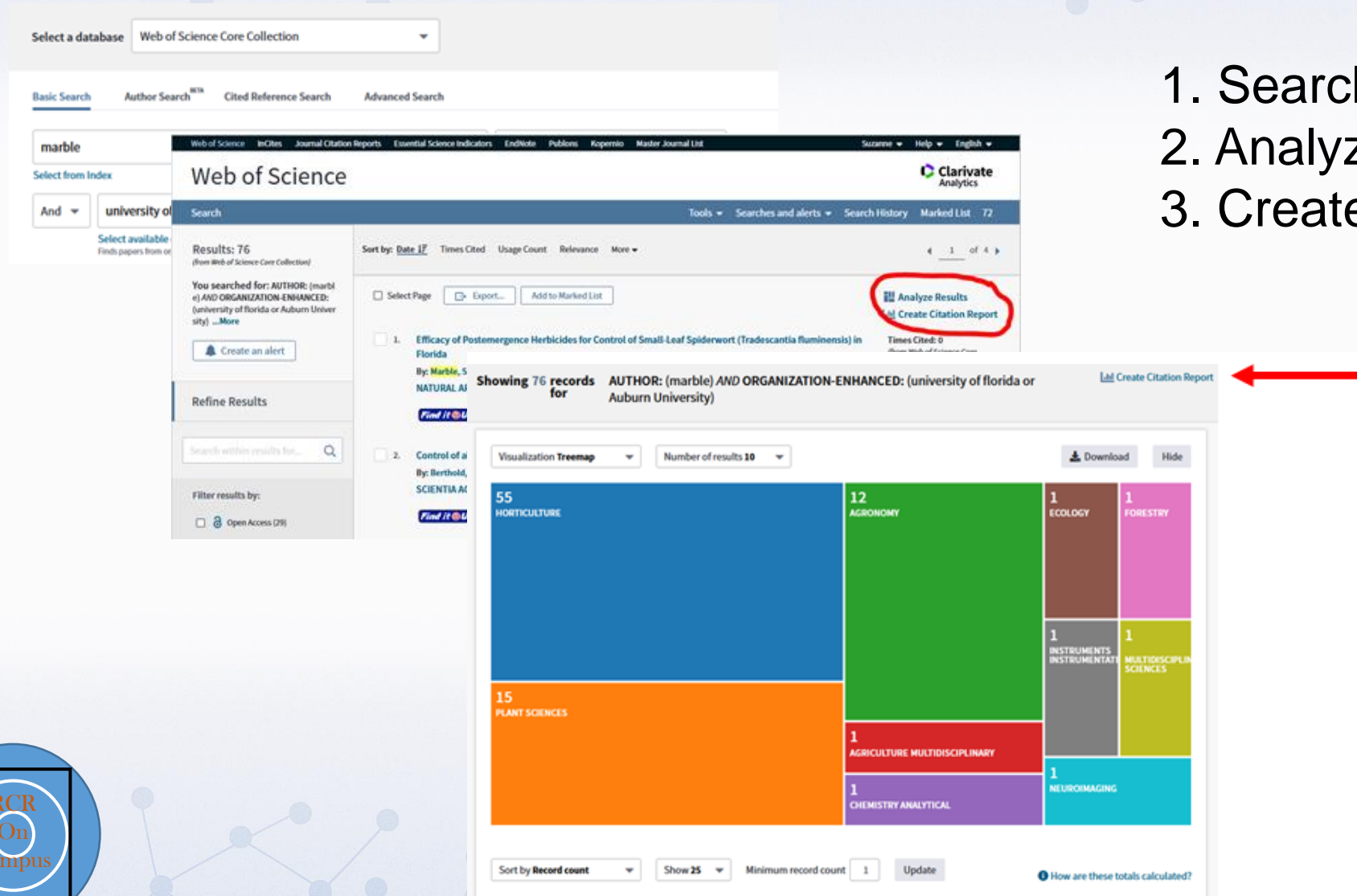
1. Search for Author
2. Analyze results
3. Create Citation Report

The screenshot displays the Web of Science interface. At the top, a dropdown menu shows 'Web of Science Core Collection'. Below it, search tabs include 'Basic Search', 'Author Search', 'Cited Reference Search', and 'Advanced Search'. The search input field contains 'marble' and 'university of florida'. The results section shows 'Results: 76' and a list of search results. The first result is 'Efficacy of Postemergence Herbicides for Control of Small-Leaf Spiderwort (Tradescantia fluminensis) in Florida' by Marble, S. Christopher; Chandler, Annette. The 'Analyze Results' button is highlighted with a red circle. Other buttons visible include 'Select Page', 'Export...', 'Add to Marked List', 'Find it @ UF', 'View Abstract', 'Times Cited', and 'Usage Count'.



h-index sources: Web of Science

1. Search for Author
2. Analyze results
3. Create Citation Report



h-index sources: Web of Science

1. Search for Author
2. Analyze results
3. Create Citation Report

Select a database: Web of Science Core Collection

Basic Search | Author Search | Cited Reference Search | Advanced Search

marble

Select from Index

And university of florida or Auburn University

Select available: Finds papers from the Web of Science Core Collection

Results: 76 (from Web of Science Core Collection)

You searched for: AUTHOR: (marble) AND ORGANIZATION-ENHANCED: (university of florida or Auburn University) ...More

Create an alert

Refine Results

Search within results for: [Search]

Filter results by: [Filter]

Open Access (29)

Web of Science | InCites | Journal Citation Reports | Essential Science Indicators | EndNote | PubMeds | Kopernio | Master Journal List

Clarivate Analytics

Search

Tools | Searches and alerts | Search History | Marked List | 72

Sort by: Date | Times Cited | Usage Count | Relevance | More

Select Page | Export | Add to Marked List

Analyze Results | Create Citation Report

Showing 76 records for AUTHOR: (marble) AND ORGANIZATION-ENHANCED: (university of florida or Auburn University)

Visualization: Treemap | Number of results: 10

Download | Hide

55 HORTICULTURE | 12 AGRONOMY | 1 AGRICULTURE MULTI | 1 CHEMISTRY ANALYTICAL

15 PLANT SCIENCES

Sort by: Record count | Show 25 | Minimum record count: 1 | Update

Web of Science

Search | Search Results

Tools | Searches and alerts | Search History | Marked List | 72

Citation report for 63 results from Web of Science Core Collection between 1900 and 2021

You searched for: AUTHOR: (marble) AND ORGANIZATION-ENHANCED: (university of florida or Auburn University) ...More

This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Export Data: Save to Excel File

Total Publications: 63 | Analyze

h-index: 8 | Average citations per item: 2.33

Sum of Times Cited: 147 | Without self citations: 111

Citing articles: 121 | Analyze

Without self citations: 104 | Analyze



Clean your data

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between 1900 and 2021 Go

☐ 1. **Investigating the Research Practices of Agriculture Scholars: Findings from the University of Florida**
By: Stapleton, Suzanne; Minson, Valrie; Spears, Laura
JOURNAL OF AGRICULTURAL & FOOD INFORMATION Volume: 18 Issue: 3-4 Special Issue: SI Pages: 327-346 Published: 2017

☐ 2. **Partnerships in Agricultural Publications: University of Florida's Marston Science Library and the Florida State Horticultural Society**
By: Stapleton, Suzanne; Fruin, Christine; Shorey, Christy; et al.
LIBRARY TRENDS Volume: 65 Issue: 3 Pages: 359-377 Published: WIN 2017

☐ 3. **How Does Watermelon Grafting Affect Fruit Yield and Quality? a Systematized Review**
EN By: Jordana, Carley; Zhao, Xin; Stapleton, Suzanne; et al.
HORTSCIENCE Volume: 55 Issue: 9 Supplement: S Pages: S289-S289 Published: SEP 2020

☐ 4. **Urgenci: International Network of Community Supported Agriculture (urgenci.net)**
By: Stapleton, Suzanne C.
JOURNAL OF AGRICULTURAL & FOOD INFORMATION Volume: 20 Issue: 3 Pages: 196-205 Published: 2019

☒ 5. **Evaluating Multiple Signaling Activities in LPS Induced Human PBMCs**
By: Whiteman, Sarah Ann; Stapleton, Suzanne; Jett, Marti; et al.
FASEB JOURNAL Volume: 22 Published: APR 2008

Remove Selected Records

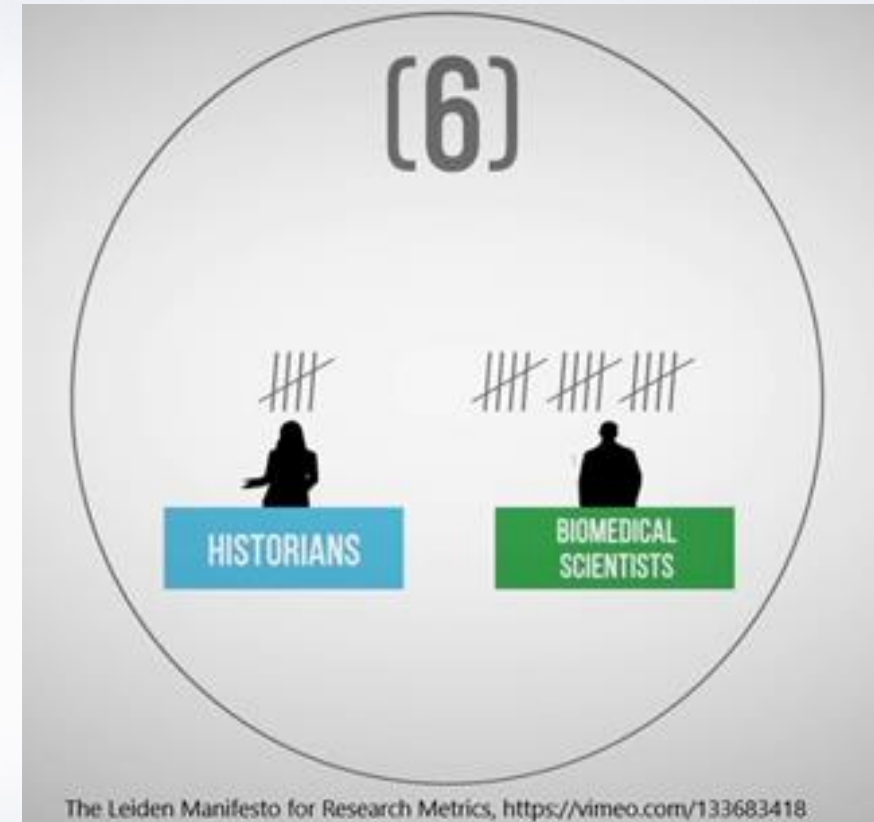


1. ORCID
2. Web of Science Researcher ID
3. Scopus Author ID



Problems with the h -index

- Varies with source of data
- Discipline publishing & citation patterns
- Career stage of researcher
- Highly cited papers underrecognized
- Other types of research impact



Video: <https://vimeo.com/133683418>



Variations to the *h*-index

Egghe's *g*-index: more weight to highly-cited papers

Zhang's *e*-index: aims to reveal citation patterns

Contemporary *h*-index: more weight to recent papers

Age-weighted citation rate: adjusted to age of paper

h_i, norm: normalized to account for number of co-authors

etc...



Always provide context

It make take some research to gather the data to contextualize your *h*-index

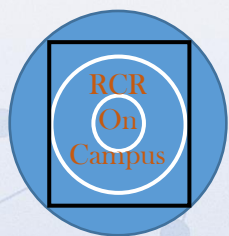


One metric, alone, is not enough

“Although I argue that a high h is a reliable indicator of high accomplishment, the converse is not necessarily always true"... “the h -index should be only one of many elements used in evaluating scientific achievement of an individual”

Hirsch (2005)





Container Level Metrics



Container level metrics - Journals

Journal metrics

- Impact Factor (™) - Journal Citation Reports
- Eigenfactor
- Scimago journal rankings
- H-Index (Scimago)
- H5-Index ([Google Scholar](#))



Impact Factor

Found in [Journal Citation Reports \(JCR\)](#) database

Web of Science journals only

Trademark of **Clarivate Analytics** (formerly Thomson Reuters, formerly ISI)

JCR Guide - <https://clarivate.libguides.com/jcr>

Requires an institutional subscription to access

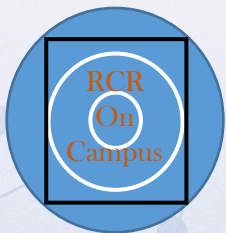


Impact Factor

2017 impact Factor =

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\begin{array}{l} \text{Citations in 2017 to} \\ \text{items published in} \\ \text{2015 (3485) + 2016} \\ \text{(2516)} \end{array}}{\begin{array}{l} \text{Number of citable} \\ \text{items in 2015 (356) +} \\ \text{2016 (311)} \end{array}} = \frac{6001}{667}$$



Is 5.728 a good impact factor?

No

292.278 = CA: A Cancer
Journal's 2019 Impact
Factor



Go to Journal Profile

Master Search



Compare Journals

View Title Changes



Select Journals



Select Categories



Select JCR Year

2019



Select Edition

☐ SCIE ☒ SSCI

Open Access

☐ Open Access

Category Schema

Web of Science



Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

Select
All

Full Journal Title

Total Cites

Journal
Impact
Factor ▼

Eigenfactor Score



1

INTERNATIONAL JOURNAL
OF INFORMATION
MANAGEMENT

7,274

8.210



2

MIS QUARTERLY

19,613

5.370

0.00946



3

Journal of Computer-
Mediated Communication

4,757

5.366

0.00458



4

JOURNAL OF STRATEGIC
INFORMATION SYSTEMS

2,005

5.231

0.00161



5

INFORMATION &
MANAGEMENT

8,292

5.155

0.00577



6

GOVERNMENT
INFORMATION QUARTERLY

4,073

5.098

0.00321



7

INFORMATION PROCESSING
& MANAGEMENT

4,176

4.787

0.00300



8

Journal of Knowledge
Management

5,271

4.745

0.00233

Journal Citation Indicator



Dr Elizabeth Gadd ❤️ @LizzieGadd · May 22



It's about time we had more journal citation metrics. Said no-one ever.



Clarivate Web of Science @webofscience · May 20

Today we're pleased to introduce the Journal Citation Indicator: a new, field-normalized measurement of journal citation impact that can be easily interpreted and compared across disciplines. Coming soon with this year's JCR release - read about it here: [bddy.me/2S6MC1Q](https://clarivate.com/webofsciencegroup/article/introducing-the-journal-citation-indicator-a-new-field-normalized-measurement-of-journal-citation-impact/)



<https://clarivate.com/webofsciencegroup/article/introducing-the-journal-citation-indicator-a-new-field-normalized-measurement-of-journal-citation-impact/>

UF Research
UNIVERSITY of FLORIDA

Scimago ranking

Found in [Scimago Journal & Country Rank](#) database

Scopus journals only

Copyright owner: Elsevier

Open Access



Container level metrics - Books



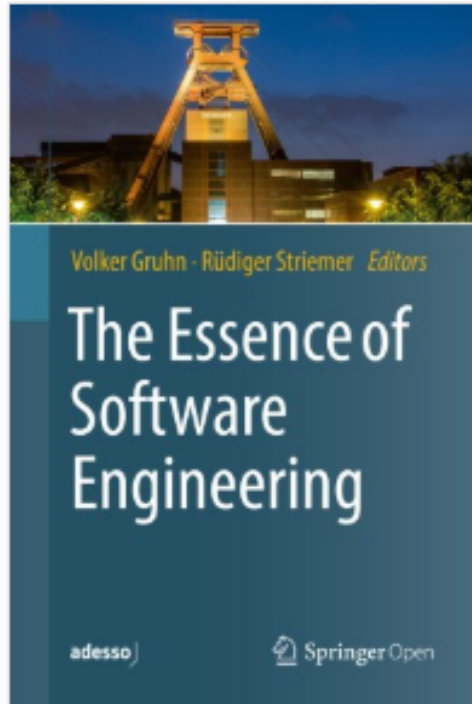
Created by Sarote Impheng
from Noun Project

Books

- Book Citation Index (not available at UF)
- Individual publishers
- Library usage



Book Citations Example



The Essence of Software Engineering

Editors ([view affiliations](#))

Volker Gruhn, Rüdiger Striemer

Open Access | Book

14

Citations

21

Mentions

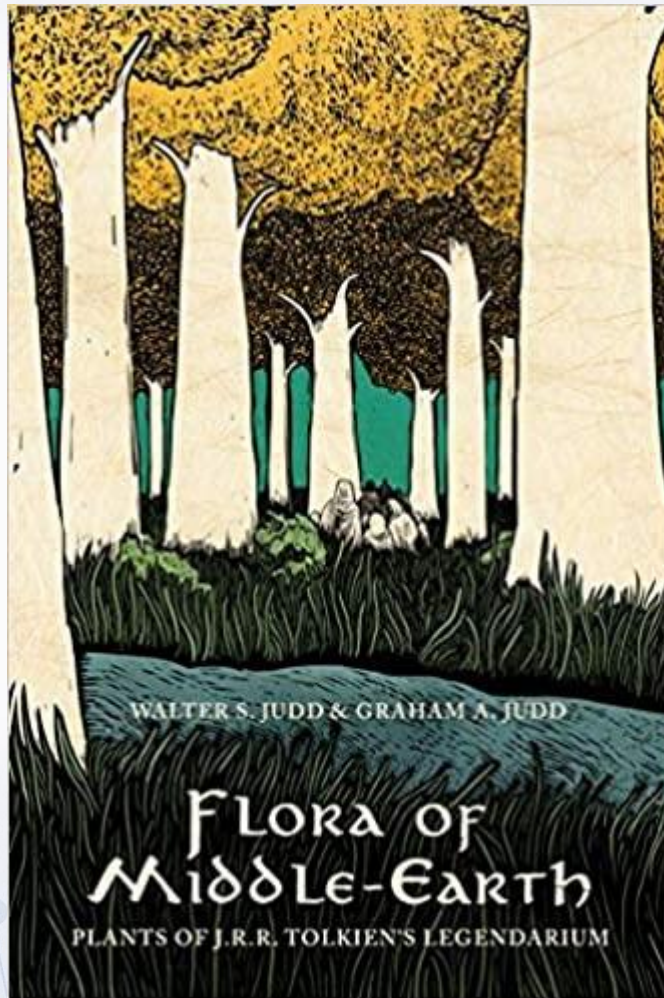
153k

Downloads

[Springer e-book](#)

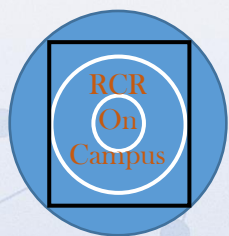


Ask a Librarian



- UF Library Catalog – 2 check outs
- [WorldCat](#) – 203 libraries
- E-book usage – views, downloads





Responsible Use of Metrics



Guidance re: Responsible Use of Metrics

LEIDEN MANIFESTO FOR RESEARCH METRICS

[Home](#)[Video version](#)[Translations](#)[Blog](#)

10 principles to guide research evaluation with 23 translations, a video and a blog

Research evaluation has become routine and often relies on metrics. But it is increasingly driven by data and not by expert judgement. As a result, the procedures that were designed to increase the quality of research are now threatening to damage the scientific system. To support researchers and managers, five experts led by [Diana Hicks](#), professor in the School of Public Policy at Georgia Institute of Technology, and [Paul Wouters](#), director of CWTS at Leiden University, have proposed 10 principles for the measurement of research performance: the Leiden Manifesto for Research Metrics published as a comment in Nature.

Hicks, Wouters, Waltman, de Rijcke, Rafols, Nature, April 23, 2015

<http://www.leidenmanifesto.org/>

Guidance re: Responsible Use of Metrics

- Leiden Manifesto: 10 principles to guide research evaluation
 1. Quantitative eval **should support qualitative, expert assessment**
 2. Measure performance against the research **missions of the institution, group, or researcher.**
 3. Protect excellence in **locally relevant** research.
 4. Keep data collection and analytical **processes open, transparent and simple.**
 5. **Allow those evaluated to verify** data and analysis.

<https://www.nature.com/news/bibliometrics-the-leiden-manifesto-for-research-metrics-1.17351>



Guidance re: Responsible Use of Metrics

- Leiden Manifesto (cont.)
 6. Account for **variation by field** in publication and citation practices.
 7. Base assessment of individual researchers on a **qualitative judgement** of their portfolio.
 8. **Avoid** misplaced concreteness and **false precision**.
 9. **Recognize the systemic effects** of assessment and indicators.
 10. **Scrutinize indicators regularly** and update them.

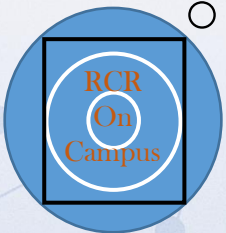
<https://www.nature.com/news/bibliometrics-the-leiden-manifesto-for-research-metrics-1.17351>




Issues with Metrics


- Risk of becoming a substitute for qualitative assessment
- Some can place early career researchers at a disadvantage
- Some metrics not used as intended
 - E.g., using journal-level metric for assessing item/author impact
 - DORA: San Francisco Declaration on Research Assessment 2012
- Some metrics differ widely across fields
 - Always give context
 - E.g., top 1%, 99th percentile
 - Use field normalized metrics when appropriate
 - E.g., RCR, FCR
- Risk of corruption pressures
 - Researchers (and others) playing to the metric
 - Claiming authorship
 - Quid pro quo citing

When a measure becomes a target,
it ceases to be a good measure.
- Goodhart's Law



Research Misconduct

 U.S. Department of Health & Human Services www.hhs.gov

 THE OFFICE OF
RESEARCH
INTEGRITY

Contact Us

ORI 2.0


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[Home](#) » [Case Summary: Lin, Yibin](#) [Printer Friendly](#)


Case Summary: Lin, Yibin

Yibin Lin, Ph.D., University of Texas Health Science Center: Based on the report of an assessment conducted by the University of Texas Health Science Center (UTHealth), Respondent's admission, and analysis conducted by the Office of Research Integrity (ORI) in its oversight review, ORI found that Yibin Lin, Ph.D. (Respondent), former postdoctoral fellow, McGovern Medical School, UTHealth, engaged in research misconduct in research supported by U.S Public Health Service (PHS) funds, specifically National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), grant R01 AI125216.


ORI found that Respondent engaged in research misconduct by knowingly and intentionally falsifying, fabricating, and plagiarizing data and text reported in the following published papers, which have been retracted, and manuscripts:

 **Misconduct Case Summaries**

 **Newsletter**

 **Follow Us**

 **PHS Administrative Action Bulletin Board**

 **Annual Report System**

“...falsifying, fabricating, and plagiarizing data and text...”

<https://ori.hhs.gov/content/case-summary-lin-yibin>

Research Misconduct



“...created fictitious author names...
without listing himself as an author...
to improve his citation metrics.”

10 year ban

ORI finds that Respondent knowingly and intentionally falsified, fabricated, and plagiarized the whole content of six (6) papers and eight (8) manuscripts, falsely created fictitious author names and affiliations without listing himself as an author to disguise himself from being the offender, and submitted them for publication in *bioRxiv* and *medRxiv*, open access preprint repositories, by falsely assembling random paragraphs of text, tables, and figures from previous publications and manuscripts to improve his citation metrics.

Dr. Lin entered into a Voluntary Exclusion Agreement (Agreement) and agreed to the following:

1. Because the Respondent also attempted to deceive the online publication sites *bioRxiv* and *medRxiv* by creating fictitious author names and affiliations without listing himself as an author, Respondent agreed to exclude himself voluntarily for a period of ten (10) years beginning on January 7, 2021, from any contracting or subcontracting with any agency of the United States Government and from eligibility for or involvement in nonprocurement programs of the United States Government referred to as “covered transactions” pursuant to HHS’ Implementation (2 C.F.R. Part 376) of OMB Guidelines to Agencies on Governmentwide Debarment and Suspension, 2 C.F.R. Part 180 (collectively the “Debarment Regulations”); and
2. Respondent agreed to exclude himself voluntarily from serving in any advisory capacity to PHS including, but not limited to, service on any PHS advisory committee, board, and/or peer review committee, or as a consultant for a period of ten (10) years, beginning on January 7, 2021.

<https://ori.hhs.gov/content/case-summary-lin-yibin>

Research Misconduct

Case Summary: Lin, Yibin

Published Papers

- Efficient Method for Genomic DNA Mutagenesis in *E. coli*. *bioRxiv* 2020. doi: <https://doi.org/10.1101/2020.05.16.097097>.
- A simple and efficient method for *in vitro* site directed mutagenesis. *bioRxiv* 2020. doi: <https://doi.org/10.1101/2020.05.16.100107>.
- A restriction-free method for gene reconstitution. *bioRxiv* 2020. doi: <https://doi.org/10.1101/2020.05.20.107631>.

bioRxiv preprint doi: <https://doi.org/10.1101/2020.05.16.100107>; this version posted May 17, 2020. The copyright holder for this preprint (which was not certified by peer review) is the author/funder. All rights reserved. No reuse allowed without permission.

A simple and efficient method for *in vitro* site-directed mutagenesis

Dave Palis, and Frank Huang*

*Correspondence: Frank Huang; fhuang@uab.cat

Unitat de Biofísica, Departament de Bioquímica i de Biologia Molecular, Facultat de Medicina, and Centre d'Estudis en Biofísica, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain.

bioRxiv preprint doi: <https://doi.org/10.1101/2020.05.16.100107>; this version posted May 17, 2020. The copyright holder for this preprint (which was not certified by peer review) is the author/funder. All rights reserved. No reuse allowed without permission.

References

4. Lin Y: What's happened over the last five years with high-throughput protein crystallization screening? *Expert Opin Drug Discov* 2018, **13**(8):691-695.
5. Liu H, Naismith JH: An efficient one-step site-directed deletion, insertion, single and multiple-site plasmid mutagenesis protocol. *BMC Biotechnol* 2008, **8**:91.
6. Zeng F, Hao Z, Li P, Meng Y, Dong J, Lin Y: A restriction-free method for gene reconstitution using two single-primer PCRs in parallel to generate compatible cohesive ends. *BMC Biotechnol* 2017, **17**(1):32.
7. Garcia-Nafria J, Watson JF, Greger IH: IVA cloning: A single-tube universal cloning system exploiting bacterial In Vivo Assembly. *Sci Rep* 2016, **6**:27459.
8. Edelheit O, Hanukoglu A, Hanukoglu I: Simple and efficient site-directed mutagenesis using two single-primer reactions in parallel to generate mutants for protein structure-function studies. *BMC Biotechnol* 2009, **9**:61.
9. Xia Y, Chu W, Qi Q, Xun L: New insights into the QuikChange process guide the use of Phusion DNA polymerase for site-directed mutagenesis. *Nucleic Acids Res* 2015, **43**(2):e12.
10. Zeng F, Zhang S, Hao Z, Duan S, Meng Y, Li P, Dong J, Lin Y: Efficient strategy for introducing large and multiple changes in plasmid DNA. *Sci Rep* 2018, **8**(1):1714.
11. Zheng L, Lin Y, Lu S, Zhang J, Bogdanov M: Biogenesis, transport and remodeling of lysophospholipids in Gram-negative bacteria. *Biochim Biophys Acta Mol Cell Biol Lipids* 2017, **1862**(11):1404-1413.
12. Zheng L, Baumann U, Rey M: A simple and efficient method for site-directed saturation mutagenesis protocol. *BMC Biotechnol* 2010, **10**:10.
13. Qi D, Scholthof KB: A one-step method for site-directed deletion, insertion, and substitution mutagenesis. *J Virol Methods* 2008, **147**:1-10.

Find (6/9)

lin

Previous

Replace with

"Authors"

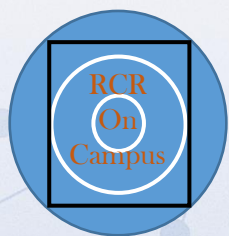
"...to improve his citation metrics."
This one cited 8 papers by Lin Y

<https://www.biorxiv.org/content/biorxiv/early/2020/05/17/2020.05.16.100107.full.pdf>

Make your publications count

- Do good work and ensure your article reflects the study rigor
 - Follow reporting standards and address all recommended items
- Publish in journals that reach your intended audience
 - Choose a journal that is read and respected in the field
 - JIF rank can indicate highly cited journals
 - Consider journals that appear in a database common in the field
 - Your article can't have impact if it can't be found
- If particular metrics are important to you, publish in journals that support them, e.g.,
 - If using h-index from WoS, be sure journal is indexed in WoS
 - If Journal Impact Factor is important, be sure the journal has one and it ranks where you want it to be





Choose Your Breakout Room (15 mins.)

- **Item Level** – Terry will be demonstrating how to find citing articles in Dimensions
- **Author Level** – Suzanne will be comparing the h-index in Web of Science and Google Scholar for scholars in different disciplines
- **Container Level** – Tara will be exploring the Journal Citation Reports database, home of the Impact Factor and other metrics
- **Main Room** – Michelle will be hosting an open Q&A



Choose Your Breakout Room (15 mins.)



The screenshot shows a window titled "Breakout Rooms - In Progress" with a close button (X) in the top right corner. Below the title bar, there is a list of three breakout rooms, each with a dropdown arrow on the left and a "Join" link on the right. An orange arrow points to the "Join" link for the first room, "Item (Article Citations)".

Breakout Room	Action
Item (Article Citations)	Join
Author (h-Index)	Join
Container (Impact Factor)	Join



We're back



Tell Your Story



Share quantitative AND qualitative descriptions of the impacts of your scholarship.



Academic Research Consulting & Services Research Metrics Team

<https://arcs.uflib.ufl.edu/services/research-metrics/>

Research Metrics LibGuide

<https://guides.uflib.ufl.edu/metrics>

The screenshot shows the website for the University of Florida's Academic Research Consulting & Services (ARCS) team, specifically the Research Metrics and Impact section. The header includes the UF logo and the text "Academic Research Consulting & Services" and "GEORGE A. SMATHERS LIBRARIES". A search bar is located in the top right corner. Below the header, a navigation bar contains links for "Services", "Featured stories", "ARCS Experts", and "Request A Consultation". The main content area is titled "RESEARCH METRICS AND IMPACT" and features a sidebar with a list of services: Copyright & Fair Use, Data Management, Data Science, Digital Humanities, Publishing & Archiving, Reproducibility, Research Metrics and Impact (highlighted), Research Integrity, Spatial Information Services, Systematic Reviews, and Visualization. The main content area displays the title "Research Metrics and Impact" followed by five team members, each with a portrait photo and contact information: Terry Selfe (tselfe1@ufl.edu), Chelsea Johnston (cjohnston@ufl.edu), Suzanne Stapleton (suzanne@ufl.edu), Tara Cataldo (tara@uflib.ufl.edu), and Michelle Leonard (mleonard@ufl.edu). Below this, a "Resources" section includes a link to the "Research metrics and impact LibGuide" with a sub-link "Access resource →".



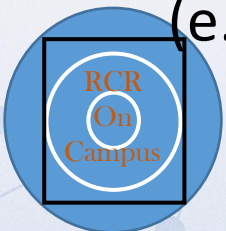
Resource List - Item Level

- Literature databases
- Web of Science - <http://webofknowledge.com/WOS>
- Google Scholar - <https://scholar.google.com/>
- Dimensions - <https://app.dimensions.ai/discover/publication>
- Altmetrics - <https://www.altmetric.com/>
- PlumX - <https://plumanalytics.com/learn/about-metrics/>
- iCite - <https://icite.od.nih.gov/>



Resource List - Author Level

- Web of Science - <http://webofknowledge.com/WOS>
- Web of Science Build Your Profile - <https://clarivate.libguides.com/authors/portfolio>
- Google Scholar Citations - <https://scholar.google.com/intl/en/scholar/citations.html>
- Google Scholar Metrics - <https://scholar.google.com/intl/en/scholar/metrics.html>
- Publish or Perish - <https://harzing.com/resources/publish-or-perish>
- Benefits of nominating yourself and your work
(e.g. doi:[10.1126/science.caredit.a1700044](https://doi.org/10.1126/science.caredit.a1700044))



Resource List – Container Level

- Journal Citation Reports - <https://jcr.clarivate.com/>
- Scimago - <https://www.scimagojr.com/>
- WorldCat - <https://universityofflorida.on.worldcat.org/discovery>



Additional Resources

Responsible Use of Research Metrics:

- Declaration on Research Assessment (DORA) <https://sfdora.org/>
- Leiden Manifesto <http://www.leidenmanifesto.org/>

Others:

- Metrics Toolkit <https://www.metrics-toolkit.org/>
- Literature, e.g. *Scientometrics* (the journal) <https://www.springer.com/journal/11192>
- Initiative for Open Citations <https://i4oc.org/>



More questions? Discussion?



Thank you!

- Please take the survey at:

https://ufl.qualtrics.com/jfe/form/SV_1WVLQUcrykr7YFM



If You Suspect Research Misconduct...

Research Misconduct means **fabrication, falsification, or plagiarism** in proposing, performing, or reviewing research, or in reporting research results.

Questionable Research Practices are reports of **careless, irregular, or contentious research practices**, as well as authorship disputes, may not meet the standard for research misconduct but may be a research integrity violation.

Make a **confidential report** to the UF Research Integrity Officer (RIO)

Cassandra C. Farley
(352) 273-3052 | cfarley@ufl.edu

You may also report anonymously
UF Compliance Hotline: 877-556-5356



Still not sure if it is Misconduct or a QRP? The RIO can help you better understand the situation. You can speak in hypotheticals as you consider making an official allegation.

