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PLOS BIOLOGY

A Role for Parasites in Stabilising the Fig-Pollinator Mutualism

Derek W. Dunn^{1,2,3}, Simon T. Segar^{1,2}, Jo Ridley³, Ruth Chan¹, Ross H. Crozier⁴, Douglas W. Yu⁵, James M. Cook^{1,2,5*}

1 Division of Biology, Imperial College London, Ascot, United Kingdom, **2** School of Biological Sciences, University of Reading, Reading, United Kingdom, **3** School of Biological Sciences, University of East Anglia, Norwich, United Kingdom, **4** School of Marine and Tropical Biology, James Cook University, Townsville, Queensland, Australia, **5** Natural Environment Research Council (NERC) Centre for Population Biology, Imperial College London, Ascot, United Kingdom

Mutualisms are interspecific interactions in which both players benefit. Explaining their maintenance is problematic, because cheaters should outcompete cooperative conspecifics, leading to mutualism instability. Monoecious figs (*Ficus*) are pollinated by host-specific wasps (Agaonidae), whose larvae gall ovules in their "fruits" (syconia). Female pollinating wasps oviposit directly into *Ficus* ovules from inside the receptive syconium. Across *Ficus* species, there is a widely documented segregation of pollinator galls in inner ovules and seeds in outer ovules. This pattern suggests that wasps avoid, or are prevented from ovipositing into, outer ovules, and this results in mutualism stability. However, the mechanisms preventing wasps from exploiting outer ovules remain unknown. We report that in *Ficus rubiginosa*, offspring in outer ovules are vulnerable to attack by parasitic wasps that oviposit from outside the syconium. Parasitism risk decreases towards the centre of the syconium, where inner ovules provide enemy-free space for pollinator offspring. We suggest that the resulting gradient in offspring viability is likely to contribute to selection on pollinators to avoid outer ovules, and by forcing wasps to focus on a subset of ovules, reduces their galling rates. This previously unidentified mechanism may therefore contribute to mutualism persistence independent of additional factors that invoke plant defences against pollinator oviposition, or physiological constraints on pollinators that prevent oviposition in all available ovules.

Citation: Dunn DW, Segar ST, Ridley J, Chan R, Crozier RH, et al. (2008) A role for parasites in stabilising the fig-pollinator mutualism. *PLoS Biol* 6(3): e159. doi:10.1371/journal.pbio.0060059

Introduction

In a biosphere driven by selection at the level of the individual gene [1], explaining the existence of cooperation, such as mutualism, is a major scientific challenge. Mutualisms are interspecific ecological interactions characterised by reciprocal benefits to both partners [2] that usually involve costly investments by each. What factors thus prevent one partner from imposing unsustainable costs onto the other to enable mutualism stability [3–7]? In some mutualisms, the larger, more sessile partner, manipulates the other by directing benefits to cooperative individuals and costs to cheaters [1–7]. However, a general consensus on mutualism persistence has only recently been formulated, and this clearly shows that a high benefit-to-cost ratio of cooperating is one important factor [8,9].

Fig trees (*Ficus*) and their host-specific agaonid pollinator wasps are a classic example of an obligate mutualism [10,11]. The wasps pollinate the trees, and the trees provide resources for wasp offspring. In monoecious *Ficus*, female wasps push their way through a specialised entrance into receptive syconia (colloquially, "figs"), which are enclosed inflorescences. The wasps then pollinate the tree while depositing their eggs individually into ovules. Thus, each egg laid costs the tree one seed, but upon emergence, the female wasp offspring disperse that tree's pollen. Trees need to produce both wasps and seeds for the mutualism to persist, but natural selection should favour wasps that exploit the maximum number of fig ovules in the short term, resulting in a conflict of interest between wasp and tree. However, the mutualism has persisted for at least 60 million years and has radiated into more than 720 species pairs [12]. The mechanisms preventing wasps

from overexploiting figs remain unknown, despite intensive study over four decades.

Within receptive syconia, the lengths of floral styles are highly variable [13,14], and ovipositing pollinators (foundresses) favour flowers with shorter styles for their offspring [15–18]. Style and pedicel lengths of flowers are negatively correlated. Short-styled ovules develop into seeds or galls (when a wasp is present) near the syconium inner cavity, while most long-styled ovules develop into seeds near the outer wall [19,20] (Figure 1). These patterns have been shown to reflect the oviposition preferences of foundresses, and are unlikely to be the result of greater elongation of pedicels containing eggs during syconial maturation, because in receptive syconia, pollinators' eggs are mainly present in short-styled inner ovules [16]. These widespread observations have been tied to four, not necessarily mutually exclusive, mechanisms that have been proposed to stabilise the fig-pollinator mutualism: (1) Unbeatable seeds—outer ovules may be defended biochemically or physically against oviposition or larval development [21]. However, no mechanism has yet been identified. (2) Short ovipositors—pollinators' ovipositors may be too short to fully penetrate the long styles of

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Received: September 14, 2007; **Accepted:** January 22, 2008; **Published:** March 11, 2008

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Abbreviation: s.e., standard error
* To whom correspondence should be addressed. E-mail: james.cook@reading.ac.uk

Key Question for all scholars:

How do you find other related (new and old) papers?

References

- Achenbach, T. M., & Edelbrock, C. (1983). *Manual for the Child Behavior Checklist and revised Child Behavior Profile*. Burlington: University of Vermont.
- American Psychiatric Association. (1994). *Diagnostic and statistical manual of mental disorders* (4th ed.). Washington, DC: Author.
- Berkson, J. (1946). Limitations of the application of fourfold table analysis to hospital data. *Biometrics Bulletin*, 2, 47–53.
- Burke, J. D. (2007). Antisocial personality disorder. In A. Bell & M. Reinecke (Eds.), *Personality disorders in childhood* (pp. 429–494). New York, NY: Wiley.

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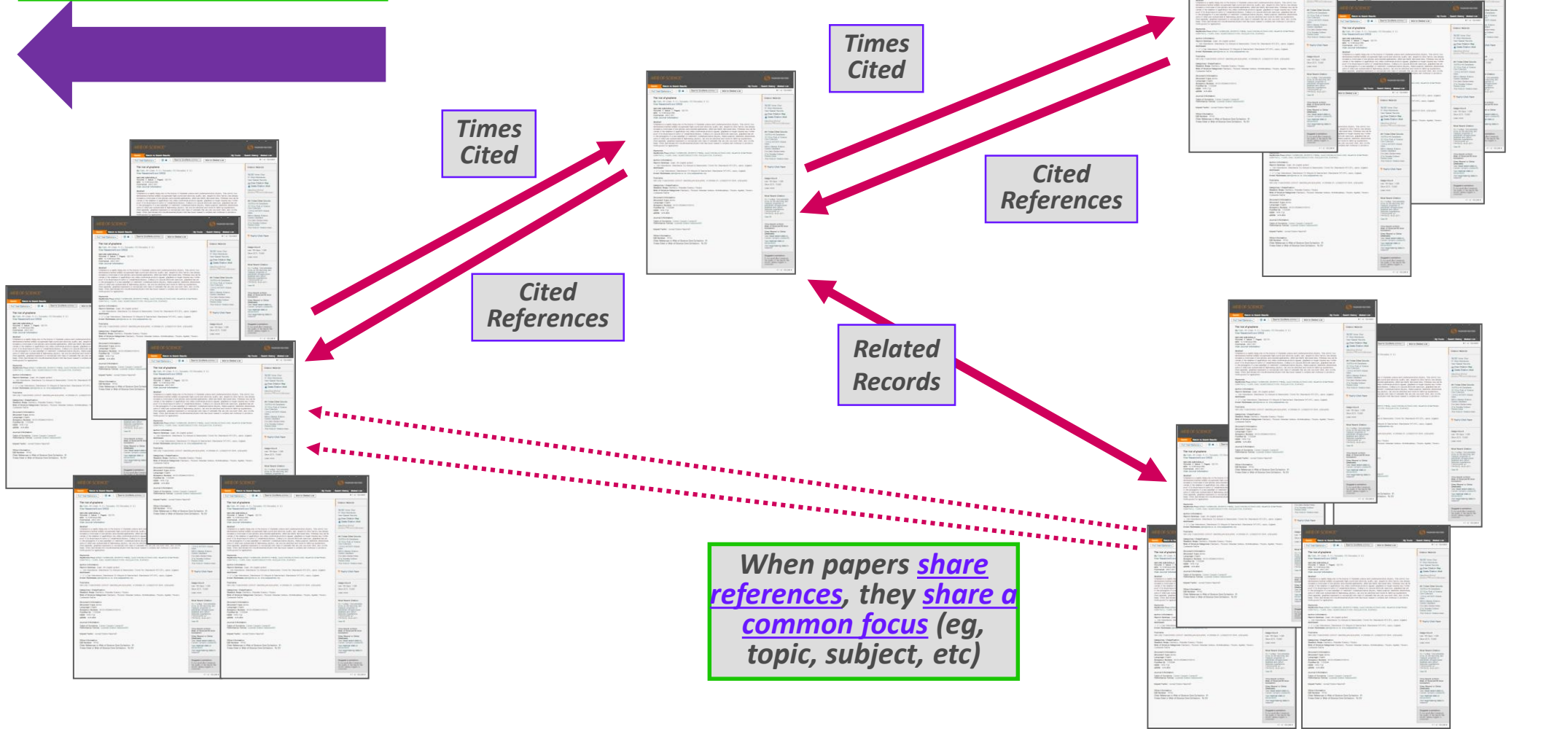
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Genetic modification technology for nutrition and improving diets: an ethical pers

By: Glass, S (Glass, Sara)^[1]; Fanzo, J (Fanzo, Jessica)^[2]

CURRENT OPINION IN BIOTECHNOLOGY
Volume: 44 Pages: 46-51
DOI: 10.1016/j.copbio.2016.11.005
Published: APR 2017
[View Journal Impact](#)

Abstract
Genetically modified (GM) techniques to improve the nutrition and health content of foods is a highly debated area riddled with ethical d
GM technology with a public health ethical framework, this paper identifies public health goals, the potential burdens of the technology,
for minimizing burdens and ensuring beneficence, autonomy, and little infringements on justice. Both policymakers and food producers
local food environments and the agricultural context of each community in order to effectively prepare communication strategies and eq
proposed GM food intervention.

Keywords
KeyWords Plus: PUBLIC-HEALTH; GOLDEN RICE; FOOD CROPS; AGRICULTURE; SECURITY; INFORMATION; OPPOSITION; IM

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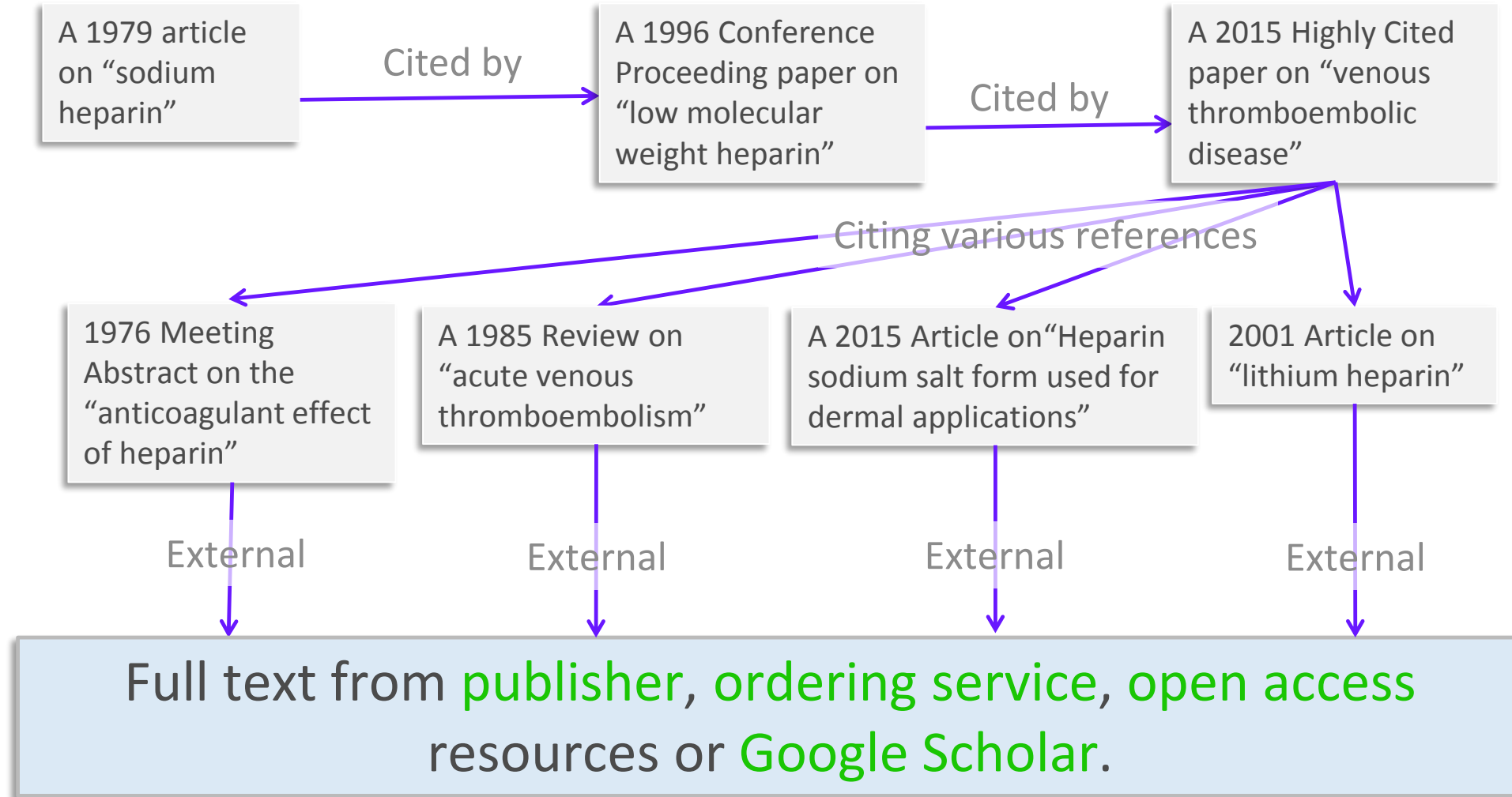
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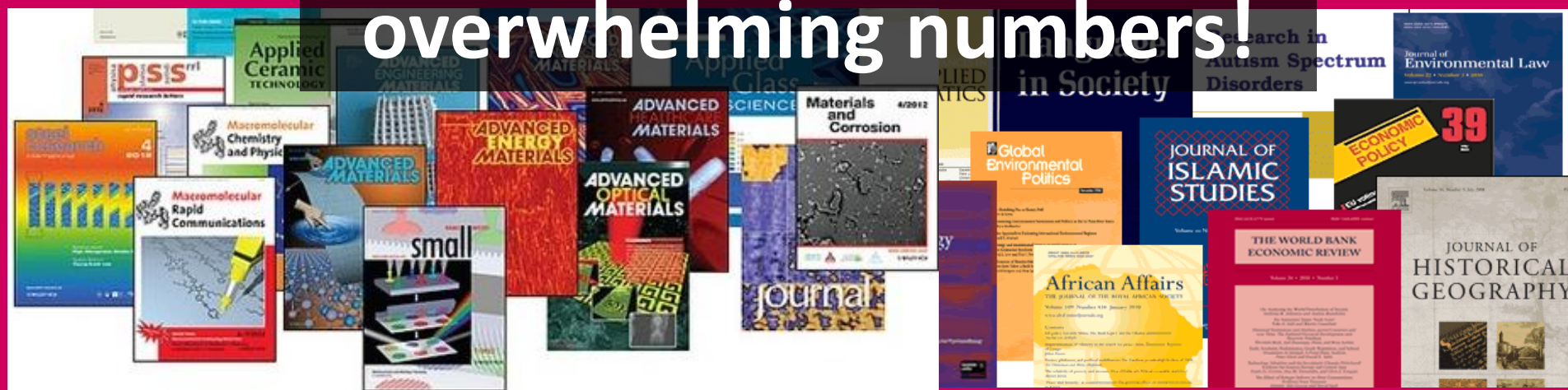
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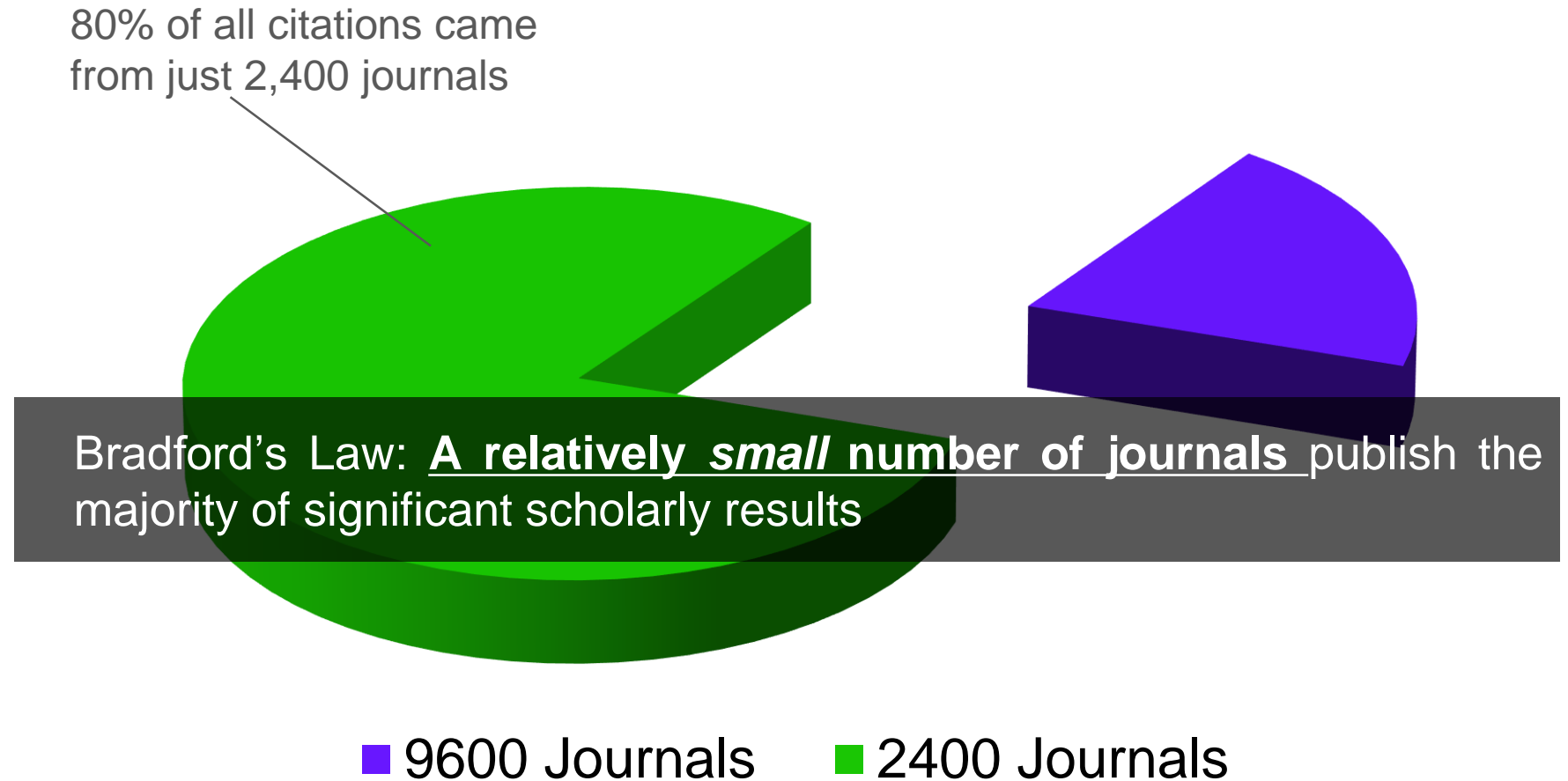
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How many journals do you need?



Bradford, S.C., *Sources of information on specific subjects*. Engineering: An Illustrated Weekly Journal 1934. **137**: p. 85-86.

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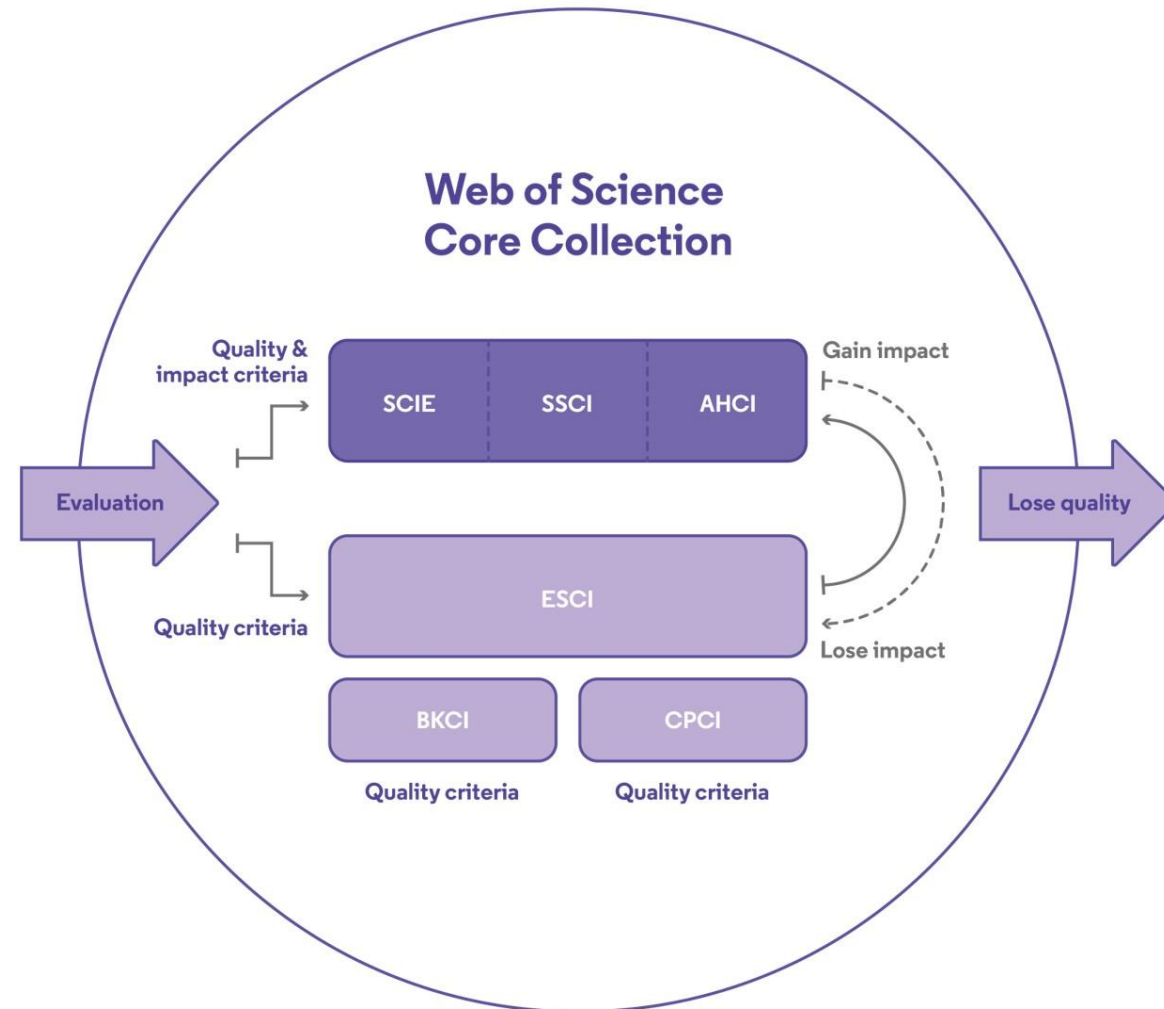
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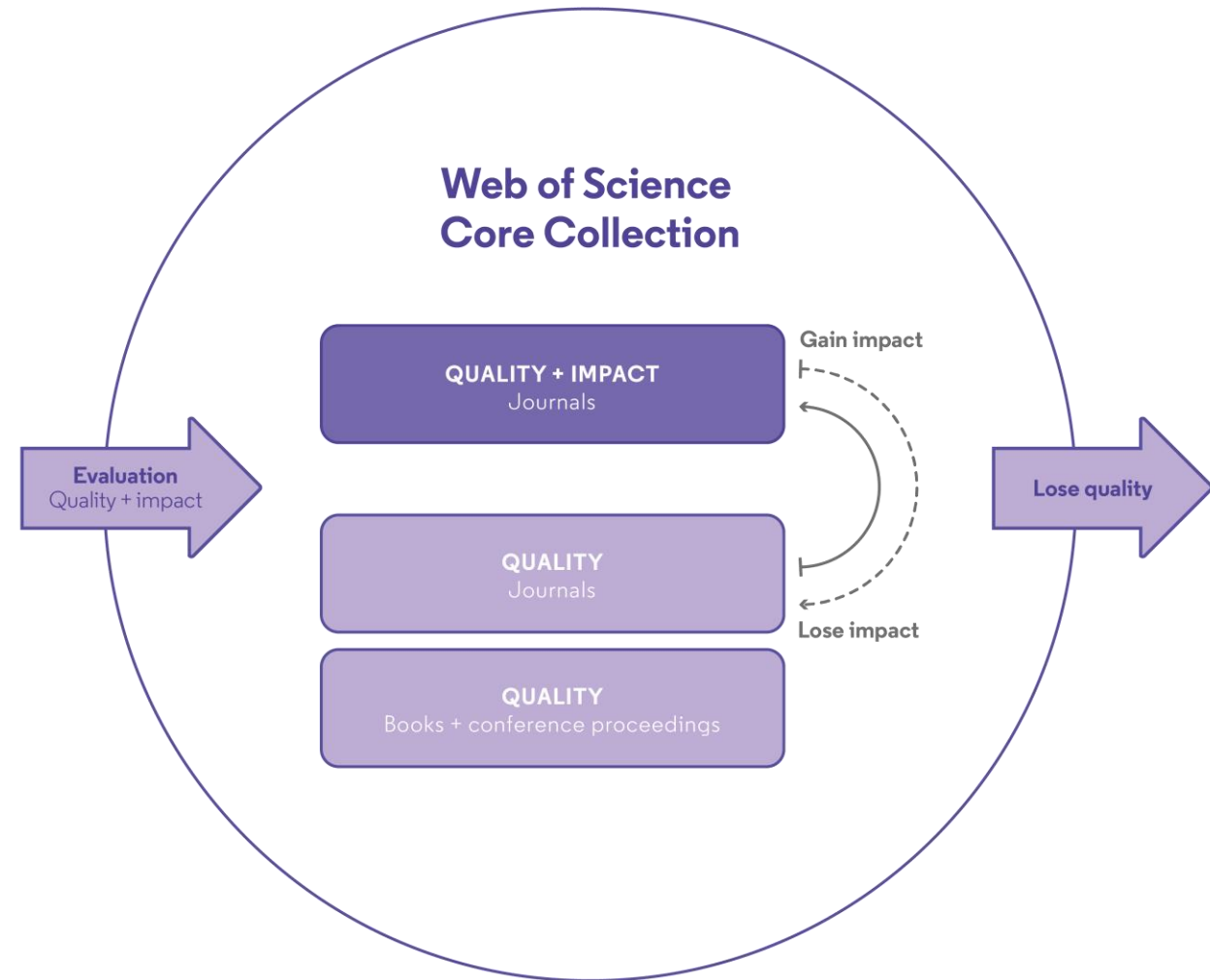


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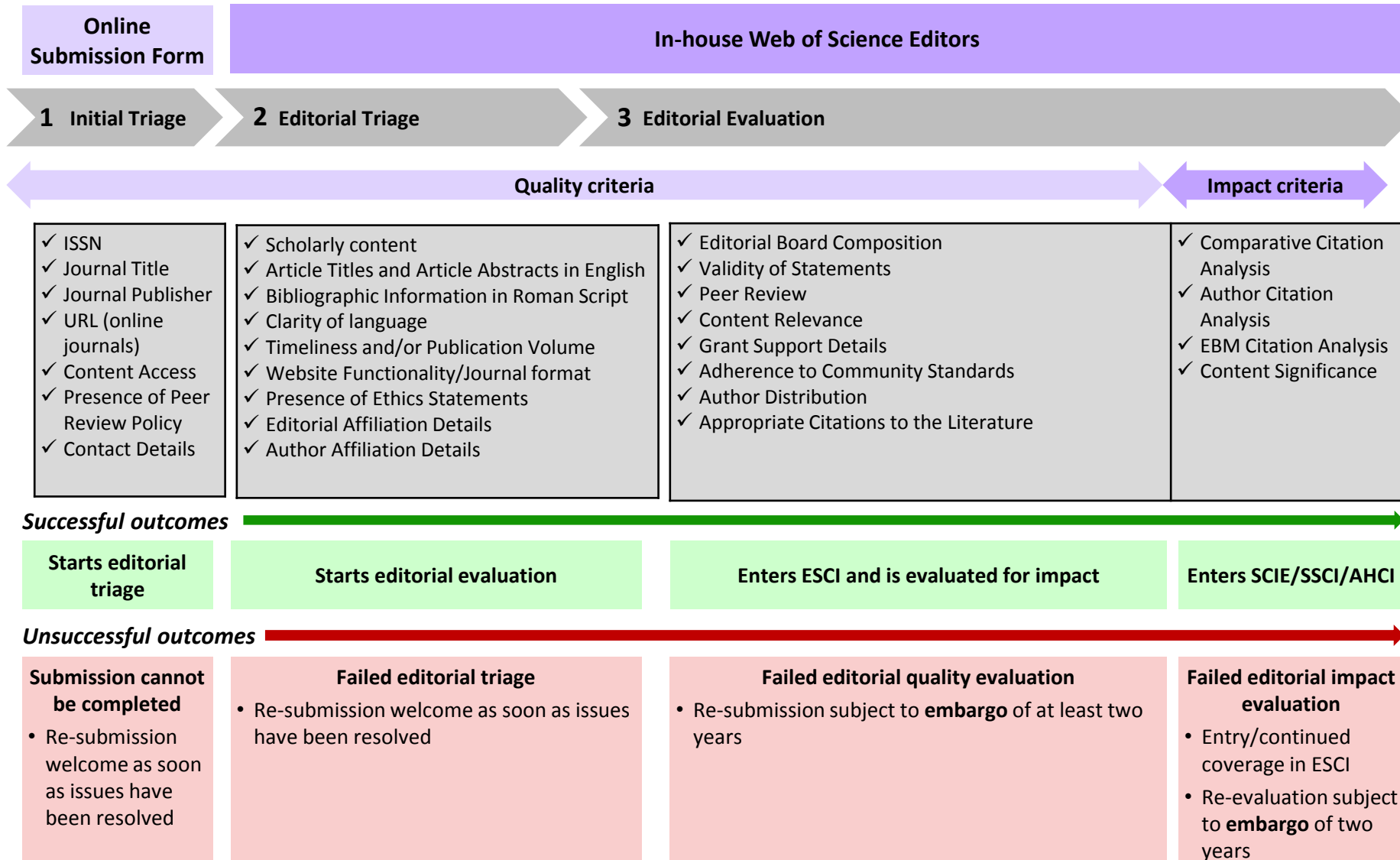
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October 2018 - Assessment

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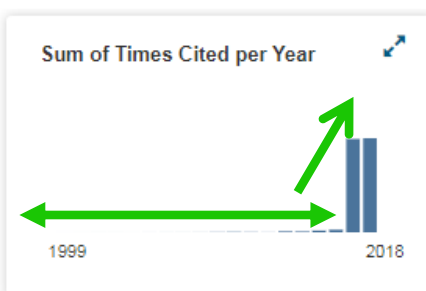
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WoS comes with simple analytical tools



h-index
82

Average citations per item
9.08

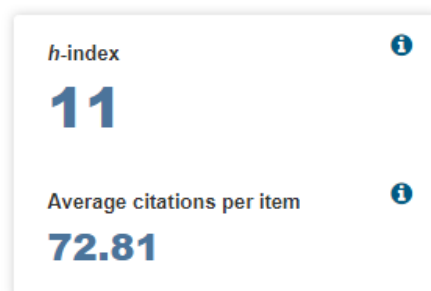
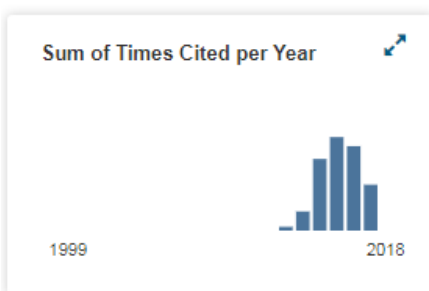
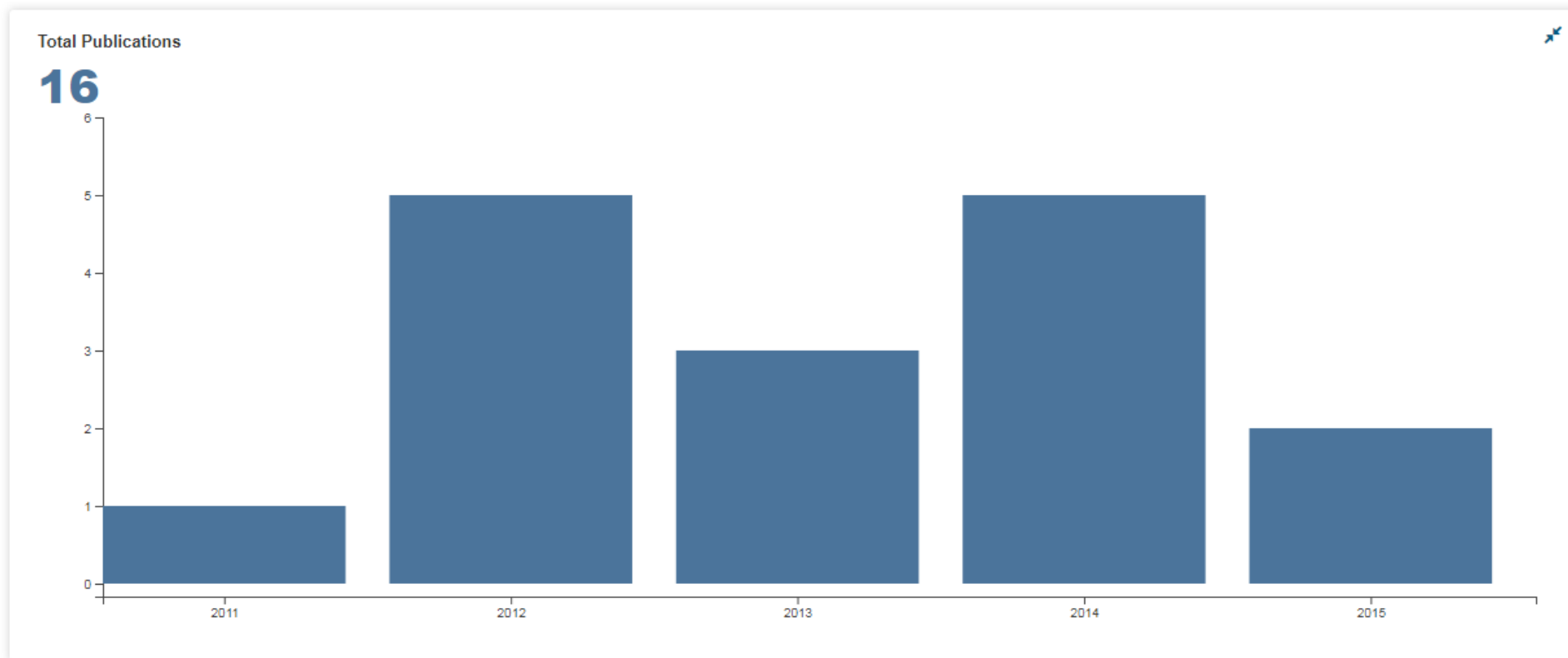
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By: Yusuf, R. O.; Adeniran, J. A.; Sonibare, J. A.; et al.
POLLUTION Volume: 5 Issue: 1 Pages: 71-80 Published: WIN 2019
 Times Cited: 0
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- 4. Mapping oil palm plantation expansion in Malaysia over the past decade (2007-2016) using ALOS-1/2 PALSAR-1/2 data**
By: Cheng, Yuqi; Yu, Le; Xu, Yidi; et al.
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- 5. Textural measures for estimating oil palm age** **Times Cited: 0**

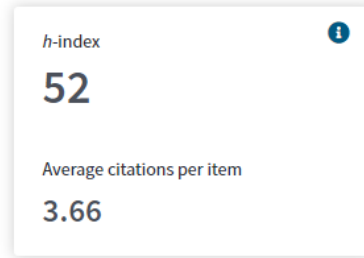
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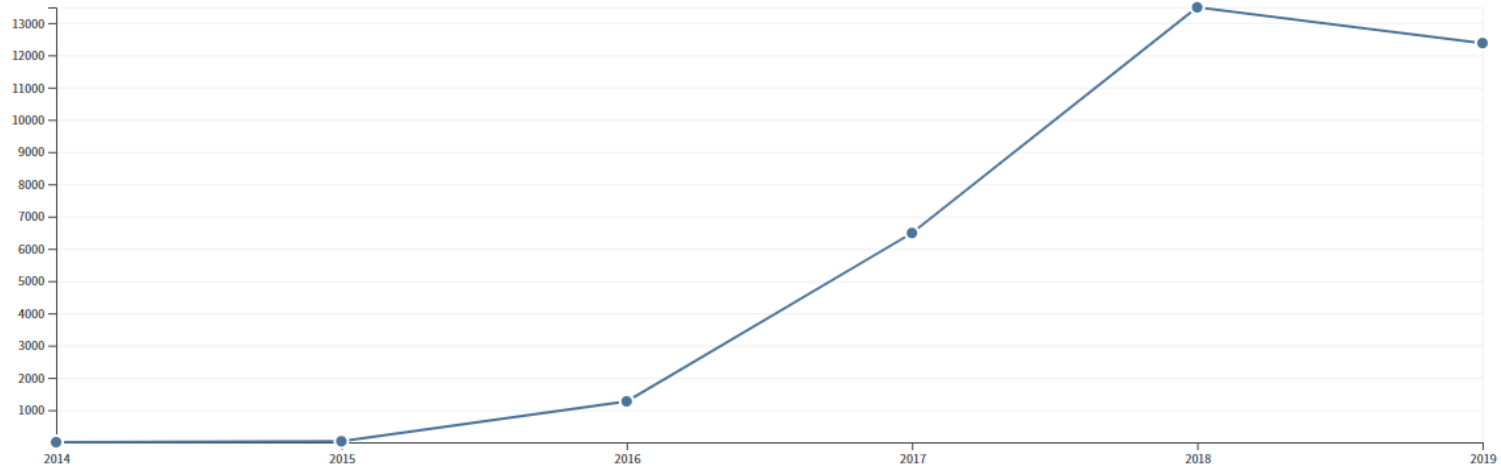
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By: Low, Jingxiang; Cheng, Bei; Yu, Jiaguo

APPLIED SURFACE SCIENCE Volume: 392 Pages: 658-686 Published: JAN 15 2017



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2. **Comparison of modification strategies towards enhanced charge carrier separation and photocatalytic degradation activity of metal oxide semiconductors (TiO2, WO3 and ZnO)**

By: Kumar, S. Girish; Rao, K. S. R. Koteswara

Conference: 2nd International Symposium on Energy and Environmental Photocatalytic Materials (EPPM2) Location: Wuhan Univ Technol, Wuhan, PEOPLES R CHINA Date: APR 01-04, 2016

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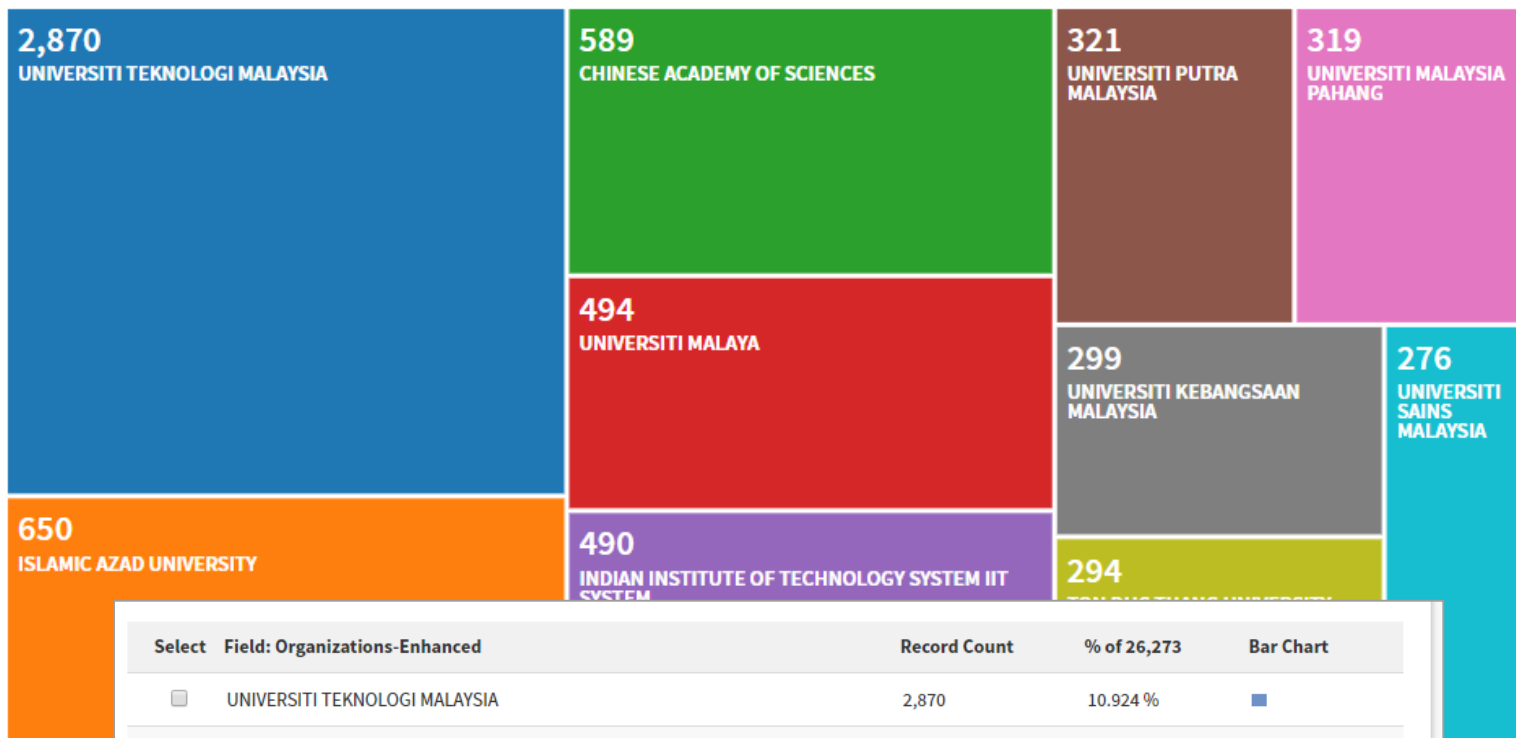
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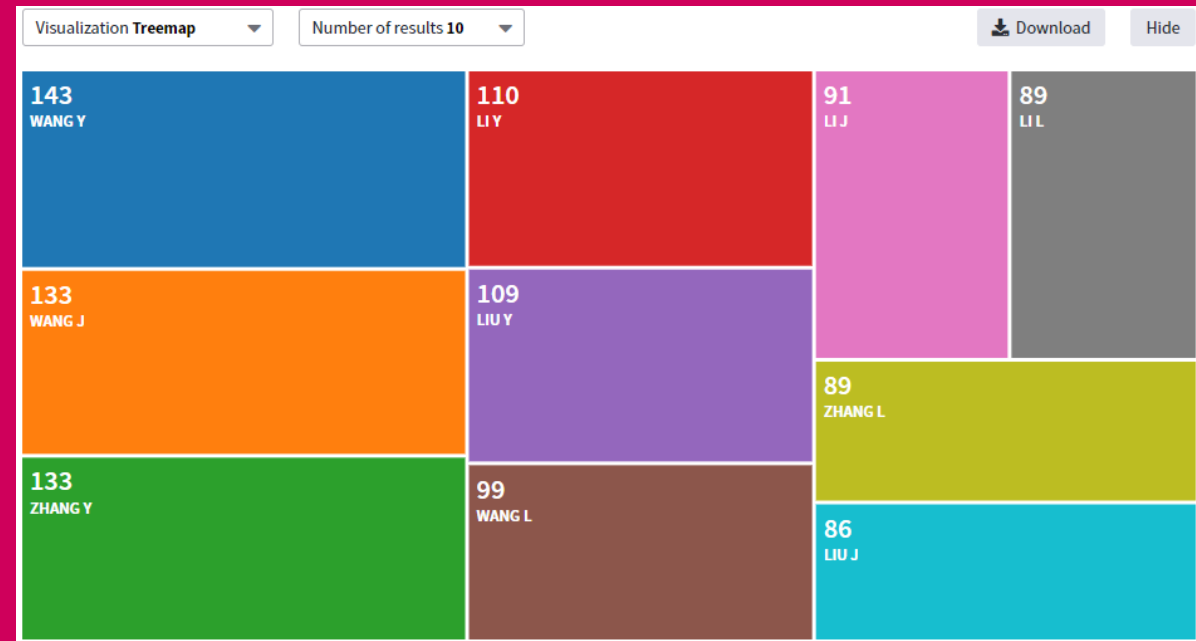
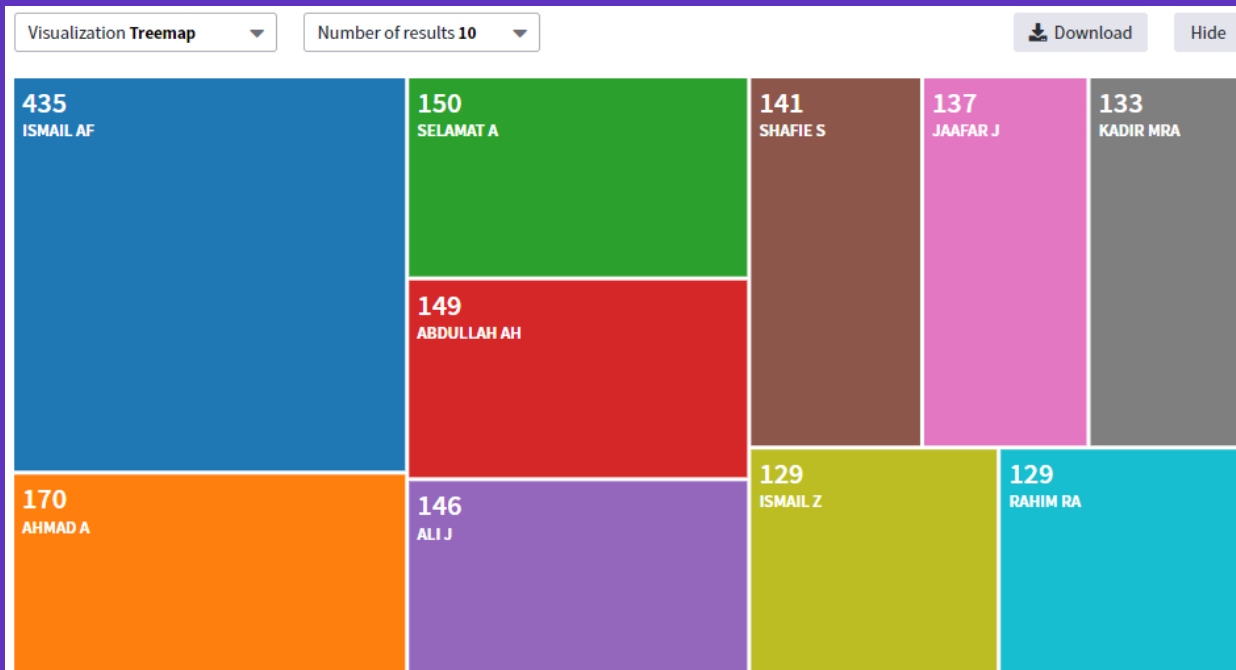
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The screenshot shows the Chrome Web Store interface with search results for 'web of science'. The search bar at the top left contains 'web of science' and is highlighted with a red box. The main content area displays three extension cards, with the first one, 'Web of Science - Quick Search', also highlighted with a red box. The left sidebar contains navigation links and filter options. The bottom left corner features the 'Web of Science Group' logo.

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web of science

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- Works with Google Drive

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- ★★★★★ & up
- ★★★★★ & up
- ★★★★★ & up

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Performs a topic search in Web of Science.
★ RATE IT
Search Tools
★★★★★ (11)

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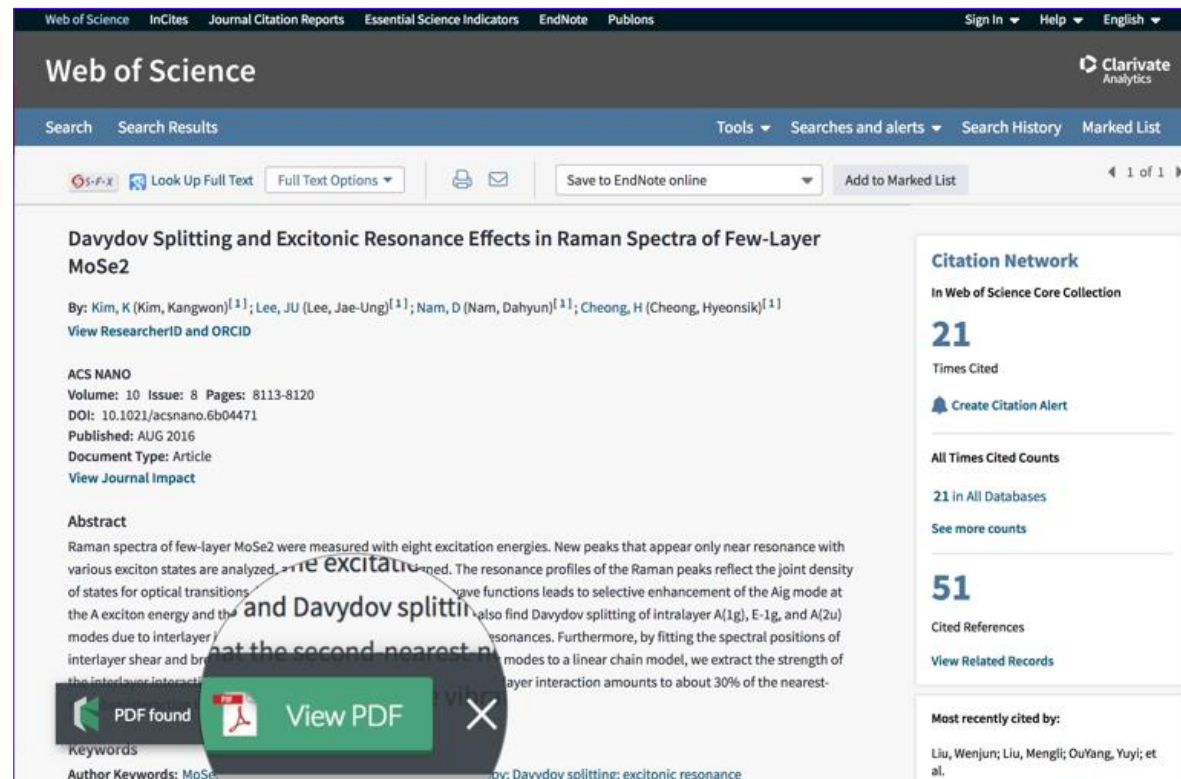
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The screenshot displays the Web of Science interface for a search result. The title is "Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe2". The authors listed are Kim, K (Kim, Kangwon)^[1]; Lee, JU (Lee, Jae-Ung)^[1]; Nam, D (Nam, Dahyun)^[1]; Cheong, H (Cheong, Hyeonsik)^[1]. The journal is ACS NANO, Volume 10, Issue 8, Pages 8113-8120, published in AUG 2016. The document type is an Article. The abstract discusses Raman spectra of few-layer MoSe2 measured with eight excitation energies, highlighting new peaks near resonance and the joint density of states for optical transitions. It also mentions the resonance profiles of Raman peaks reflecting the joint density of states and the selective enhancement of the A_{1g} mode at the A exciton energy and the Davydov splitting of intralayer A(1g), E-1g, and A(2u) modes due to interlayer interlayer shear and Brillouin zone folding. Furthermore, by fitting the spectral positions of the intralayer A(1g) and A(2u) modes to a linear chain model, the strength of the interlayer interaction amounts to about 30% of the nearest-neighbor interaction. A green callout box with a PDF icon and the text "PDF found" and "View PDF" is overlaid on the abstract area.



Publons

To Track Researchers' Reviews and Publications

Visibility and discoverability of peer reviews via Publons

The image shows a screenshot of a Publons profile for Matthias Lein. The profile includes a header with the Publons logo and navigation links (ACTIONS, BROWSE, COMMUNITY, FAQ, SIGN IN). Below the header is a search bar and a breadcrumb trail: Home > Researchers > Matthias Lein. The main profile area features a profile picture of Matthias Lein, a 'PROFILE' tab, and a 'STATISTICS' tab. The name 'Matthias Lein' is prominently displayed, followed by his title: 'Senior Lecturer - School of Chemical and Physical Sciences, Victoria University of Wellington' and 'Associate - Centre for Theoretical Chemistry and Physics, Massey University'. Social media links for Twitter, ResearcherID, and Google Scholar are provided. A 'Verified reviewer' badge is shown, along with statistics: 562 Reviewer Merit, 186 reviews, and 4 papers scored. An 'AWARDS' section displays four gold medals. The 'IDENTIFIERS' section lists his Publons ID (publons.com/a/360075/), ORCID ID (orcid.org/0000-0002-5164-8638), and ResearcherID (researcherid.com/rid/B-7745-2008). The 'NAVIGATE' section indicates he serves on 1 editorial board, has reviewed for 35 journals, and has 186 pre-publication reviews. The 'ENDORSES' section lists journals he endorses: Physical Chemistry Chemical Physics, Journal of Chemical Theory and Computation, International Journal of Quantum Chemistry, Journal of Computational Chemistry, Theoretical Chemistry Accounts, and Computational and Theoretical Chemistry. The 'PRE PUBLICATION REVIEWS' section shows a list of reviews from 2018, all marked as 'Reviewed for' various journals. A 'Showing 10 of 186' indicator and a 'SHOW MORE' button are present. The 'HAS REVIEWED FOR' section lists journals he has reviewed for, including Physical Chemistry Chemical Physics (39), Dalton Transactions (18), Organometallics (8), and others. A 'Showing 6 of 35' indicator and a 'SHOW MORE' button are also present. The Web of Science Group logo is visible in the bottom left corner.

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Search, or import by DOI/arXiv/PMID

ACTIONS BROWSE COMMUNITY FAQ SIGN IN

Home > Researchers > Matthias Lein

PROFILE STATISTICS

Matthias Lein

Senior Lecturer - School of Chemical and Physical Sciences, Victoria University of Wellington
Associate - Centre for Theoretical Chemistry and Physics, Massey University

Twitter
ResearcherID
Google Scholar

Verified reviewer

562 Reviewer Merit

186 reviews

4 papers scored

AWARDS

IDENTIFIERS

publons.com/a/360075/

orcid.org/0000-0002-5164-8638

researcherid.com/rid/B-7745-2008

NAVIGATE

Serves on 1 editorial board

Has reviewed for 35 journals

186 Pre-publication Reviews

ENDORSES

- Physical Chemistry Chemical Physics
- Journal of Chemical Theory and Computation
- International Journal of Quantum Chemistry
- Journal of Computational Chemistry
- Theoretical Chemistry Accounts
- Computational and Theoretical Chemistry

PRE PUBLICATION REVIEWS

- 2018 ✓ Reviewed for Physical Chemistry Chemical Physics
- 2018 ✓ Reviewed for International Journal of Quantum Chemistry
- 2018 ✓ Reviewed for Inorganica Chimica Acta
- 2018 ✓ Reviewed for Dalton Transactions
- 2018 ✓ Reviewed for Nanoscale
- 2018 ✓ Reviewed for Physical Chemistry Chemical Physics
- 2018 ✓ Reviewed for Computational and Theoretical Chemistry
- 2018 ✓ Reviewed for Organic & Biomolecular Chemistry
- 2018 ✓ Reviewed for Molecules
- 2018 ✓ Reviewed for Physical Chemistry Chemical Physics

Showing 10 of 186 [SHOW MORE](#)

HAS REVIEWED FOR

- (39) Physical Chemistry Chemical Physics
- (18) Dalton Transactions
- (8) Organometallics
- (24) Com
- (9) Intern
- (7) Journ

Showing 6 of 35 [SHOW MORE](#)

Web of Science Group

What is Publons?

Helping researchers get credit for peer review activities



NATURE | TOOLBOX: Q&A

The scientists who get credit for peer review

Publons rewards researchers for putting their peer-review activity online. *Nature* spoke to the startup's co-founder and two super-users.

Richard Va NATURE | NEWS

09 October

Web of Science owner buys up booming peer-review platform

Acquisition could lead to new commercial services in scientific peer review.

Richard V

01 June 2

Springer Nature and Publons enter wide-ranging partnership to bring greater efficiency and recognition to peer review

London, 12 December 2018

The burden on the peer review community is increasing as the volume of published research articles grows. Research output is rising exponentially and this is putting

253

Users with profiles at your institutions

600,000
Researchers

3 million+
Reviews

25,000+
Journals



Questions?

Thank you

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