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Altmetrics, nouveaux indicateurs de l'impact de la recherche

Véronique Decognet

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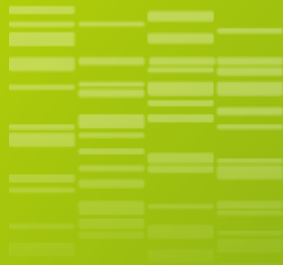
Submitted on 5 Jun 2020

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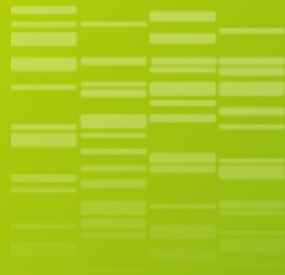
ALTMETRICS, NOUVEAUX INDICATEURS DE L'IMPACT DE LA RECHERCHE



Journées URFIST AVIGNON – 24-25/01/2018
Améliorer la visibilité de sa production scientifique

SOMMAIRE

- ❖ **Présentation**
- ❖ **Prestataires de mesure alternatives**
- ❖ **Discussion - Perspectives**



01 PRESENTATION

Contexte

❖ Révolution du cadre traditionnel de la publication

- Diversité des productions scientifiques (type et format) : publications (preprint, postprint ...), ouvrages, diaporamas, jeux de données, vidéos...
- Nombreux documents en accès libre sur le Web
- Nouvelles pratiques collaboratives et sociales du Web : consultation, téléchargement, partage de publications dans des groupes (par ex Mendeley), communication au travers de réseaux sociaux généralistes (Twitter, Facebook...) ou de recherche (ResearchGate...), commentaires de publications sur des médias, des forums de discussion ou des blogs...

❖ Impact sociétal de la recherche

- La science ne produit plus sa valeur uniquement dans le champ scientifique mais à travers son "interaction" constante avec la société

❖ Indicateurs pour mesurer l'impact et la performance de la recherche

- pour le chercheur, le management de la recherche

Altmetrics : A manifesto

- ❖ **Altmetrics : mesurent l'impact sur internet d'une publication ou d'un élément d'information**

- ❖ **Terminologie proposée par Priem *et al.* (2010)**
 - Nécessité de trouver de nouveaux filtres pour trouver rapidement de l'information pertinente
 - ✓ filtres traditionnels insuffisants/ volume exponentiel de la littérature scientifique (infobésité)
 - ✓ peer review (lent, conventionnel)
 - ✓ “lenteur” des citations
 - ✓ métriques traditionnelles à l'échelle de la revue (facteur d'impact)

 - Nouveaux usages des chercheurs sur le Web
 - ✓ dépôt de documents, création de blogs, échanges via les réseaux sociaux...

“This diverse group of activities forms a composite trace of impact far richer than any available before. We call the elements of this trace altmetrics.”

J. Priem, D. Taraborelli, P. Groth, C. Neylon (2010), *Altmetrics: A manifesto*, 26 October 2010. <http://altmetrics.org/manifesto/>

Altmetrics : Une terminologie confuse (1/2)

Hétérogénéité des termes

❖ Des termes assez similaires mais non synonymes

- Alternatives metrics (Altmetrics)
 - ✓ terminologie critiquée : ce sont des métriques complémentaires et non alternatives des métriques traditionnelles
- Article-level metrics (ALMs)
 - ✓ terminologie également controversée car restrictive; les métriques alternatives peuvent être utilisées pour mesurer l'impact :
 - d'un large spectre de produits de la recherche très divers, au delà des articles
 - d'un chercheur, institution



Source : <https://twitter.com/jasonpriem/status/25844968813?lang=fr>

Altmetrics : Une terminologie confuse (2/2)

Besoin de standardisation

❖ Le terme « social media metrics » ne serait-t-il pas plus approprié ?

- Terminologie restrictive car ne comptabilise que les activités sur les réseaux sociaux.

❖ Travail de normalisation par le NISO (National information standards organization) : Alternative assessment metrics initiative

- Début du projet juillet 2013; document publié en 2016
- Normalisation de la terminologie, des sources, des méthodes de calculs, bonnes pratiques...
- Définition des altmetrics

Altmetrics is a broad term that encapsulates the collection of multiple digital indicators related to scholarly work. These indicators are derived from activity and engagement among diverse stakeholders and scholarly outputs in the research ecosystem, including the public sphere.

Des indicateurs d'impact immédiat des produits de la Recherche

❖ Diversité des produits de la Recherche

- Article de revue, ouvrage, article de site web, présentation de diapos, vidéo, ensemble de données (dataset), logiciel, billet de blog, tweet, interview, poster, logiciel, code source ...

❖ Diversité de usages/manipulations

- Utilisations (vues HTML et téléchargements de pdf)
- Discussions : sur les blogs, la presse, Wikipedia, Twitter, Facebook et autres réseaux sociaux
- Sauvegardes : ex Mendeley
- Citations : dans la littérature académique, dans les bases de données (Scopus, Web of Science...)
- Recommandations : ex F1000Prime (recommandations d'articles en biologie et médecine par un panel d'experts)



Immédiateté de l'impact sociétal vs impact académique (1/2)

Baranski, M., *et al.*(2014). Higher antioxidant concentrations, and less cadmium and pesticide residues in organically grown crops: a systematic literature review and meta-analyses. *British Journal of Nutrition*, 112 (5), 794-811

Article mis en ligne le 26/06/14 sur le site de l'éditeur

British Journal of Nutrition

British Journal of Nutrition / Volume 112 / Issue 05 / September 2014, pp 794-811

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DOI: <http://dx.doi.org/10.1017/S0007114514001366> (About DOI), Published online: 26 June 2014

OPEN ACCESS

Citations académiques (Web of science)

Consumer knowledge and attitudes about genetically modified food products and labelling policy

By: Vecchione, Melissa; Feldman, Charles; Wunderlich, Shahla
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION Volume: 66 Issue: 3 Pages: 329-335
Published: MAY 2015

[View Abstract](#)

Transparency in GM food labeling

By: Melchett, Peter
NATURE BIOTECHNOLOGY Volume: 33 Issue: 5 Pages: 453-453 Published: MAY 2015

[Full Text from Publisher](#)

Modeling Human Nutrition Using Human Embryonic Stem Cells

By: Ben-Zvi, Danny; Melton, Douglas A.
CELL Volume: 161 Issue: 1 Pages: 12-13 Published: MAR 26 2015

[Full Text from Publisher](#)

[View Abstract](#)

Are organically grown foods safer and more healthful than conventionally grown foods?

By: McCarty, Mark F.; DiNicolantonio, James J.
BRITISH JOURNAL OF NUTRITION Volume: 112 Issue: 10 Pages: 1589-1591 Published: NOV 28 2014

[View Abstract](#)

Citations académiques dans des articles édités :

- 28/11/14 : lettre à l'éditeur et un article de commentaires dans le journal ayant publié l'article
- 26/03/15 : citation dans un article de la revue Cell
- 15/09/15 : 9 articles citants

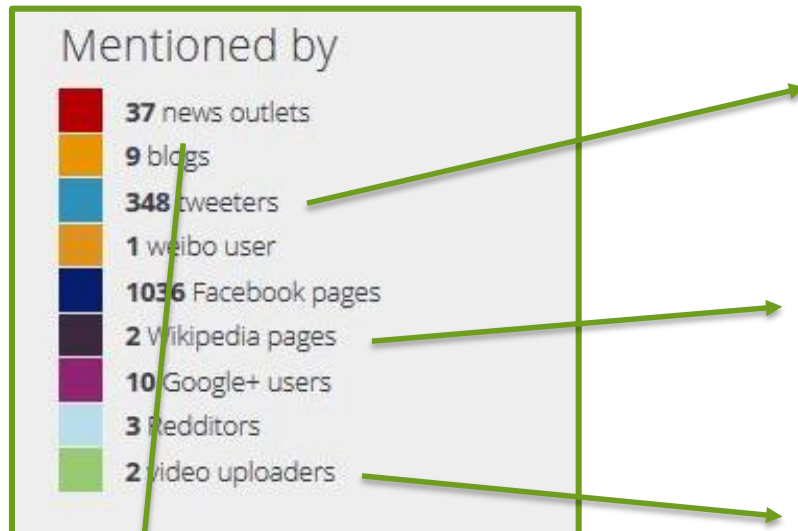
Immédiateté de l'impact sociétal vs impact académique (2/2)

Baranski, M., *et al.* (2014). Higher antioxidant concentrations, and less cadmium and pesticide residues in organically grown crops: a systematic literature review and meta-analyses. *British Journal of Nutrition*, 112 (5), 794-811

A la date du 15/09/15

Citations dans 9 articles académiques

Citations sur le Web : 37 articles de presse, 348 tweets, 1036 pages facebook....



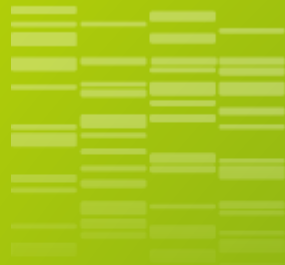
Art Skvira
@smartial_arts
Tweet le 28/06/14
Meta review of 343 studies indicate higher antioxidants levels and lower cadmium/pesticides levels in organic crops <http://t.co/xDCJBHGAlY>
28 Jun 2014

W
ENGLISH
Chuck Benbrook
Page Wiki le 21/07/14
Cited by user Everymorning on 21 Jul 2014
Charles M. "Chuck" Benbrook is a research professor at the Center for Sustaining Agricultural and Natural Resources at Washington State University, a position to which he...

BIO oder Konventionell? Was ist gesünder? Die Fakten!
User enFOODiast on YouTube, 01 Dec 2014
Hier die Angaben zur genannten Studie: <http://www.ncbi.nlm.nih.gov/pubmed/24968103>
Video le 01/12/14

BBC Sign in News Sport Weather Shop Ear
NEWS
Home Video World UK Business Tech Science Magazine Entertainment
ADVERTISEMENT
Science & Environment
Study sparks organic foods debate
Article sur BBC News le 11/07/14

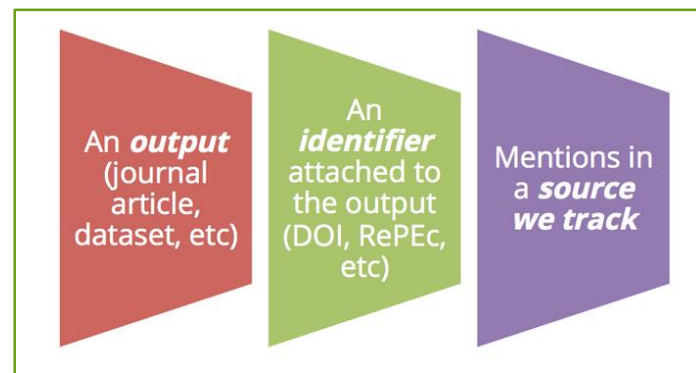
Source : [Altmetric](#)



_02

PRESTATAIRES DE MESURES ALTERNATIVES

Prestataires de mesure



Source : <https://www.altmetric.com/about-our-data/how-it-works/>

❖ Collectent et structurent les données

- Identifient les traces d'un document dans les différentes sources de données : recours à des identifiants pour désambiguïser les éléments qu'ils repèrent
 - ✓ auteurs (ORCID...)
 - ✓ objets/documents (URL, DOI, PMID...)
- Recours à l'utilisation d'interfaces de programme d'application (API) pour identifier les traces

❖ Fournissent des indicateurs

- Qualitatifs : sources des données investiguées (peuvent différer selon les prestataires)
- Quantitatifs

Prestataires de mesure

❖ Principaux prestataires



Altmetric



PLOS



MENDELEY



PLUM
ANALYTICS

❖ Prestataires

- à but lucratif : Altmetric (Quelques services gratuits), Plum analytics
- Gratuits : PloS, Impactstory

❖ Un secteur évolutif

- 2013 : rachat de mendeley par Elsevier
- 2014 : rachat de Plum analytics par EBSCO (leader mondial des agences d'abonnements)
- 2015 : lancement par Springer d'une plateforme de métriques pour les livres (bookmetrix) en partenariat avec Altmetric
- 2017 : acquisition de Plum analytics par Elsevier

Altmetrics

- ❖ **Adoptées par les grands éditeurs (modèles économiques traditionnel et open access)**
 - L'éditeur PLoS fut le premier éditeur à introduire les article level metrics
- ❖ **Intégration dans des archives institutionnelles**
- ❖ **Terminologie différente selon les éditeurs**
 - Metrics (PloS)
 - Article metrics (Nature, BioMed Central)
 - Article usage statistics (mbio, Science)
 - Readership statistics (Mendeley)...
- ❖ **Communication des éditeurs sur les articles avec des métriques élevées**

Biogeosciences

An interactive open-access journal of the European Geosciences Union

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Highlight articles



Reviews and syntheses: t
Jack J. Middelburg

PlumX Metrics – Top Social Media Articles

Below is a recent list of 2017 articles that have had the most social media attention. The Plum Print next to each article shows the relative activity in each of these categories of metrics: Captures, Mentions, Social Media and Citations. Go [here](#) to learn more about PlumX Metrics.



ews

Recent

Most Viewed

Ne pas confondre "Altmetric" et " Altmetrics "

❖ Financé par Digital science

❖ Quelques services gratuits


- installer (depuis altmetric.com/) un mini-signet sur son navigateur (Firefox, Chrome) pour obtenir les données altmetric d'un article
- accéder à l'API
- intégrer le badge Altmetric à une page web



Accueil • Zoom • Ice nucleation active bacteria

Ice nucleation active bacteria in precipitation are genetically diverse and nucleate ice by employing different mechanisms

11 décembre 2017



Failor, K. C., Schmale, D. G., Vinatzer, B. A., Monteil, C. L., H.

Failor, K. C., Schmale, D. G., Vinatzer, B. A., Monteil, C. L. (2017). Ice nucleation active bacteria in precipitation are genetically diverse and nucleate ice by employing different mechanisms. The ISME journal, 11, 2740-2753. DOI : 10.1038/ismej.2017.124 <http://prodinra.inra.fr/record/402565>

22

- Tweeted by 34
- Mentioned in 1 Google+ posts
- 13 readers on Mendeley

See more details

Zoom

A télécharger

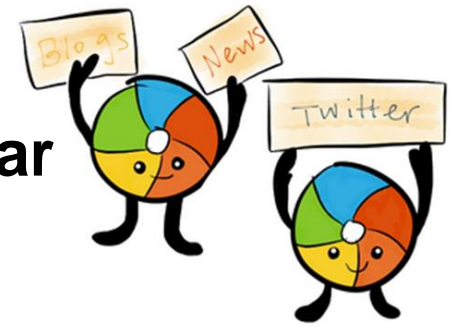
- > Plaquette de l'unité
- > Plan d'accès
- > Organigramme de l'unité

Notre actualité

- > Animation scientifique
- > Publications scientifiques 2017-2018
- > Productions scientifiques
- > Thèses en cours
- > Symposium IPVE 2016
















Altmetric (2/8)

❖ Identification des sources des données par un code couleur



Colors of the donut

The colors of the Altmetric donut each represent a different source of attention:

- | | |
|---|--|
|  Policy documents |  Google+ |
|  News |  LinkedIn |
|  Blogs |  Reddit |
|  Twitter |  Faculty1000 |
|  Post-publication peer-reviews |  Q&A (stack overflow) |
|  Facebook |  Youtube |
|  Sina Weibo |  Pinterest |
|  Wikipedia | |



Source : <https://www.altmetric.com/about-our-data/the-donut-and-score/>

❖ Quantification

- au niveau de chaque source
- agrégation dans une valeur, Altmetric score, avec un facteur de pondération différent pour chaque type de source (blogs, Twitter,...)

coefficients de pondération



News	8
Blogs	5
Twitter	1
Facebook	0.25
Sina Weibo	1
Wikipedia	3
Policy Documents (per source)	3
Q&A	0.25
F1000/Publons/Pubpeer	1
YouTube	0.25
Reddit/Pinterest	0.25
LinkedIn	0.5

Source : <https://help.altmetric.com/support/solutions/articles/6000060969-how-is-the-altmetric-attention-score-calculated->

Altmetric (4/8)

Editeurs scientifiques



Frontiers

ORIGINAL RESEARCH ARTICLE
Front. Plant Sci., 22 May 2017 | <https://doi.org/10.3389/fpls.2017.00842>

Investigation of Amino Acids As Herbicides for Control of *Orobanche minor* Parasitism in Rec

Mónica Fernández-Aparicio^{1,2*}, Alexandre Bernard³, Laurent Falchetto⁴, Christian Steinberg⁵, Cindy E. Morris⁶, Stephanie Gibot-Leclerc⁷, Angela Boari⁸, Maurizio Vunilo⁹, David A. Bonari¹⁰, David C. Sands⁶ and Xavier Reboud¹

Am score 3

1,516 TOTAL VIEWS

View Article Impact

Nature publishing

nature
International journal of science

Access provided by INRA

Altmetric 81 Citations: 100

More detail >>

Oxford Academy

ANNALS OF BOTANY
Founded 1887

Issues More content Subject Submit Purchase

Anaesthetics stop div affect endocytic vesic homeostasis, and block action potentials in Venus

184 View Metrics

APS

Phytopathology

Editor-in-Chief: Harald Scherm
Published by The American Phytopathological Society

December 2013, Volume 103, Number 12
Pages 1204-1208
<https://doi.org/10.1094/PHYTO-01-13-00>

Letter to the Editor

Phytophthora Database Future Direction

Bongsoo Park, Frank Martin, David M. Ekaterina Nikolaeva, Sook-Young Park, Kim, Yilmaz Balci, Gloria Abad, Treena Cheong, Jaeyoung Choi, Yong-Hwan L

Am score 4

See more details

Tweeted by 5

32 readers on Mendeley

Quick Links

- Add to favorites
- Email to a colleague
- Alert me when new articles cite this article
- Download to citation manager
- Related articles found in APS Journals



Science Home News Journals Topics Careers

» There's a way to do it better - find it.
Thomas Alva Edison, Innovator

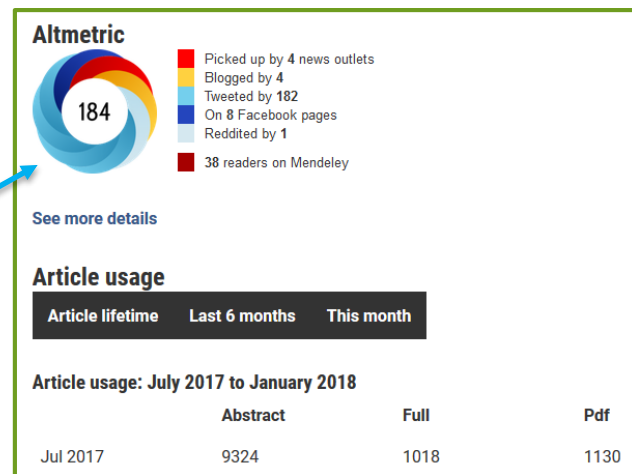
SHARE POLICY FORUM | AGRICULTURE

Improving global integration of crop research

M. P. Reynolds¹, H. J. Braun¹, A. J. Cavalieri², S. Chapotin³, W. J. Davies⁴, P. Ellul⁵, C. Feuillet⁶, B. Govaer⁷

Science 28 Jul 2017:
Vol. 357, Issue 6349, pp. 359-360
DOI: 10.1126/science.aam8559

Article Figures & Data **Info & Metrics** eLetters



Altmetric

184

- Picked up by 4 news outlets
- Blogged by 4
- Tweeted by 182
- On 8 Facebook pages
- Reddited by 1
- 38 readers on Mendeley

See more details

Article usage

Article lifetime Last 6 months This month

Article usage: July 2017 to January 2018

	Abstract	Full	Pdf
Jul 2017	9324	1018	1130

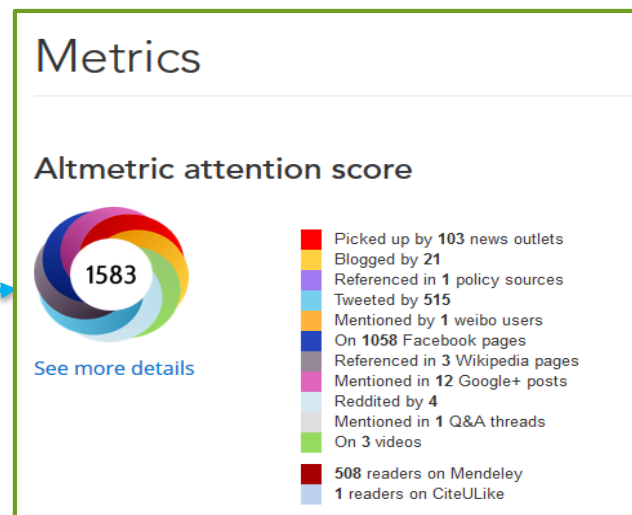
Cambridge University press



British Journal of Nutrition

Article Supplementary materials **Metrics**

Volume 112, Issue 5 14 September 2014, pp. 794-811



Metrics

Altmetric attention score

1583

- Picked up by 103 news outlets
- Blogged by 21
- Referenced in 1 policy sources
- Tweeted by 515
- Mentioned by 1 weibo users
- On 1058 Facebook pages
- Referenced in 3 Wikipedia pages
- Mentioned in 12 Google+ posts
- Reddited by 4
- Mentioned in 1 Q&A threads
- On 3 videos
- 508 readers on Mendeley
- 1 readers on CiteULike

See more details



Clic sur "Shares" redirige vers le site Altmetric.com

Springer



Agronomy for Sustainable Development
January 2015, Volume 35, Issue 1, pp 169–181 | [Cite as](#)

Fourteen years of evidence for positive effects of conservation agriculture and organic farming on soil life

Authors [Authors and affiliations](#)

Ludovic Henneron, Laetitia Bernard, Mickaël Hedde, Céline Pelosi, Cécile Villenave, Claire Chenu, Michel Bertrand, Cyril Girardin, Eric Blanchart 

RESEARCH ARTICLE
First Online: 08 April 2014

30 Shares 2.2k Downloads 25 Citations

Prodnra

HaL

Nb de consultations de cette notice : 245

Web of Science® Times Cited : 20

 19

-  Blogged by 1
-  Tweeted by 14
-  On 1 Facebook pages
-  109 readers on Mendeley

[See more details](#)





MÉTRIQUES

Consultations de la notice

245



[See more details](#)

-  Blogged by 1
-  Tweeted by 14
-  On 1 Facebook pages
-  109 readers on Mendeley

Altmetric (7/8)

Altmetric.com

Source : <https://www.altmetric.com/details/2471643> (interrogé le 24/01/2017)

Positionnement de l'article par rapport à d'autres articles

Accès aux sources

Higher antioxidant and lower cadmium concentrations in organically grown crops: a systematic literature review and meta-analysis

Overview of attention for article published in British Journal of Nutrition, June 2014



About this Attention Score

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

MORE...

Mentioned by

- 103 news outlets
- 21 blogs
- 1 policy source
- 515 tweeters
- 1 weibo user
- 1058 Facebook pages
- 3 Wikipedia pages
- 12 Google+ users
- 4 Redditors

SUMMARY News Blogs Policy documents Twitter Weibo Facebook Wikipedia Go

So far, Altmetric has seen 1 policy document that references this research output.

Connecting global priorities: biodiversity and human health: a state of knowledge review
Cited by World Health Organization on 01 Jan 2015
The World Health Organization (WHO) is the directing and coordinating authority for health within the United Nations system.

SUMMARY News Blogs Policy documents Twitter Weibo Facebook Wikipedia Google+ Reddit Q&A Video

Title Higher antioxidant and lower cadmium concentrations and lower incidence of pesticide residues in organically grown crops: a systematic literature review and meta-analyses.

Published in British Journal of Nutrition, June 2014

DOI 10.1017/s0007114514001366

Pubmed ID 24968103

Authors Marcin Barański, Dominika Srednicka-Tober, Nikolaos Volakakis, Chris Seal, Roy Sanderson, Gavin B... [show]

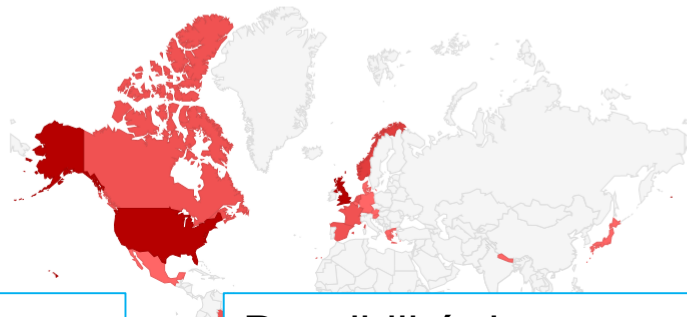
Abstract Demand for organic foods is partially driven by consumers' perceptions that they are more... [show]

View on publisher site

Alert me about new mentions

TWITTER DEMOGRAPHICS MENDELEY READERS ATTENTION SCORE IN CONTEXT

The data shown below were compiled from readership statistics for 508 Mendeley readers of this research output. [Click here to see the associated Mendeley record.](#)



Cartographie de l'audience pour Twitter et Mendeley

Possibilité de mettre une alerte



❖ Nouvelle plateforme (2015)

❖ Impact social et scientifique des livres

<http://www.springer.com/us/book/9783319233703>

http://www.bookmetrix.com/detail_full/book/338b8fef-6ff0-4c81-a09c-5030c837cd57#readers

ABOUT | **AFFILIATION** | **DISCIPLINES**

EDITORS Sabine Fillinger · Yigal Elad · Sabine Fillinger · Yigal Elad
DOI 10.1007/978-3-319-23371-0
ISBN 9783319233703 · 9783319233710 (online)

SHOW ACTIVITY FOR:

SUMMARY Combined activity for all chapters

Activity	Citations	Readers	Downloads	Revisions
CHAPTER 1 Botrytis, the Good, the Bad and the Ugly	1	0	1	880
CHAPTER 2 Botrytis-Biology, Detection and Quantification	0	0	6	848
CHAPTER 3 Genetics of Botrytis cinerea	0	0	7	855
CHAPTER 4 Vegetative Incompatibility in Botrytis	0	0	3	821

CITATIONS 46 | **MENTIONS** 0 | **READERS** 160 | **DOWNLOADS** 18.2K | **REVIEWS** 0

MENDELEY READERSHIP BY COUNTRY

This book has 160 Mendeley readers (combined total for all chapters).
Click here to see more details on the Mendeley website.

Country	Readers
Spain	
Estonia	
Brazil	
Unknown	

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Book Metrics

Citations	46
Readers	159
Downloads	18165

Provided by Bookmetrix

Bookmetrix

BOOK

Botrytis – the Fungus, the Pathogen and its Management in Agricultural Systems - 2016

Editors: Sabine Fillinger · Yigal Elad · Sabine Fillinger · Yigal Elad

Botrytis, a genus of fungal plant pathogens, is the focus of intensive scientific research worldwide. The complex interactions between these pathogens and the plants they infect (referred to collectively as the pathosystem) and the economic... [Read more](#)

Downloads	Citations	Reviews	Mentions	Readers
18.2K	46	0	0	160



- ❖ Rachat en 2017 par Elsevier
- ❖ Outil payant qui permet d'obtenir des métriques sur des individus, des groupes de recherche ou des institutions
- ❖ Sources des données classées par catégorie identifiée par un code couleur
- ❖ Quantification par catégorie



Plum analytics (2/6)

Editeur Elsevier



Global Environmental Change
Volume 43, March 2017, Pages 51-61

ELSEVIER

Research paper

Trees, forests and water: Cool insights for a hot world

David Ellison ^{a, b}, Cindy E. Morris ^{c, d}, Bruno Locatelli ^{e, f}, Douglas Sheil ^g, Jane Cohen ^h, Daniel Murdiyoso ^{i, j}, Victoria Gutierrez ^k, Meine van Noordwijk ^{l, m}, Irena F. Creed ⁿ, Jan Pokorny ^o, David Gaveau [†], Dominick V. Spracklen ^p, Aida Bargués Tobella ^q, Ulrik Ilstedt ^r, Adriaan J. Teuling ^s, Solomon Gebreyohannis Gebrehiwot ^{t, s}, David C. Sands ^d, Bart Muys [†], ... Caroline A. Sullivan ^w

<https://doi.org/10.1016/j.gloenvcha.2017.01.002> [Get rights and content](#)
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Highlights

- We review the advantages of forests highlighted in the literature on forest, water and energy cycle interactions.
- Forest, water and energy cycle interactions provide the foundation for achieving forest-based adaptation and mitigation goals.
- Forests can be used, in particular, to mitigate problems related to water scarcity and global warming.
- In addition to up- and downstream relationships, policy frameworks need to consider the transboundary nature of up- and downwind forest, water and energy cycle interactions.
- Alongside the local level, regional and continental policy-making frameworks are necessary for adequate consideration of transboundary forest, water and energy cycle interactions.

Abstract

Forest-driven water and energy cycles are poorly integrated into regional, national, continental and global decision-making on climate change adaptation, mitigation, land use and water management. This constrains humanity's ability to protect our planet's climate and life-sustaining functions. The substantial body of research we review reveals that forest, water and energy interactions provide the foundations for carbon storage, for cooling

Recommended articles

- Daily dynamics of radiation surface temperature of different land ...
Ecological Engineering, Volume 54, 2013, pp. 145-154
[Download PDF](#) [View details](#)
- Approaching moisture recycling governance
Global Environmental Change, Volume 45, 2017, pp. 15-23
[Download PDF](#) [View details](#)
- A place-based approach to payments for ecosystem services
Global Environmental Change, Volume 43, 2017, pp. 92-108
[Download PDF](#) [View details](#)

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Citing articles (11)

Article Metrics

Captures

Readers:	257
Exports-Saves:	2

Mentions

Blog Mentions:	2
News Mentions:	2
Comments:	4

Social Media

Shares, Likes & Comments:	1391
Tweets:	533

Citations

Citation Indexes:	17
-------------------	----

[View details >](#)

Article Metrics

Captures

Readers:	257
Exports-Saves:	2

Mentions

Blog Mentions:	2
News Mentions:	2
Comments:	4

Social Media

Shares, Likes & Comments:	1391
Tweets:	533

Citations

Citation Indexes:	17
-------------------	----

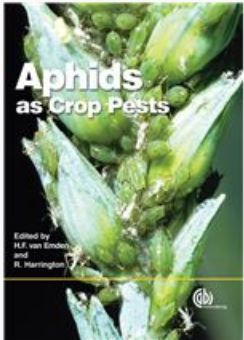
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Plum analytics (3/6)

Editeur CABI : E-books en agriculture – sciences de la vie

CABI Book Info

Aphids as crop pests.



Description

This book contains 31 chapters covering aphids as crop pests, from recent advances in molecular science and chemical ecology to forecasting and insect pest management decision support systems. It is a comprehensive reference volume on all aspects of the biology of aphids that are relevant to their pest status (including aphid taxonomy, population genetics, life cycle, host plant selection and feeding, nutrition and symbiosis, growth and development, movement, predators, parasitoids, entomopathogens, insecticide resistance and population dynamics) and management strategies to control these pests. Intended for students, researchers and practitioners in the field of entomology and crop production, this book includes several case study chapters on integrated pest management in specific crops, such as cotton, sorghum and cucurbits.

Available In Print →

Metrics



Usage

Abstract Views: **89**

Link-outs: **10**

Full Text Views: **7**

Downloads: **1**

Holdings: **1081**

Captures

Exports-Saves: **17**

Readers: **9**

Mentions

References: **6**

Citations

Citation Indexes: **183**

 **PLUMX** - see details

Plum analytics (4/6)

Base de donnée scientifique : Scopus

Scopus

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Diabetes Research and Clinical Practice
Volume 112, 1 February 2016, Pages 13-19

Type 2 diabetes prevention in the community: 12-Month outcomes from the Sydney Diabetes Prevention Program (Article)

Vita, P.^a ✉, Cardona-Morrell, M.^{bc} ✉, Bauman, A.^b ✉, Singh, M.F.^a ✉, Moore, M.^d ✉, Pennock, R.^e ✉, Snow, J.^e ✉, Williams, M.^f ✉, Jackson, L.^g ✉, Milat, A.^{bh} ✉, Colagiuri, S.^a ✉ 

^aBoden Institute of Obesity, Nutrition, Exercise and Eating Disorders, Sydney Medical School, University of Sydney, Sydney, NSW, Australia


^bPrevention Research Collaboration, School of Public Health, University of Sydney, Sydney, NSW, Australia


^cThe Simpson Centre for Health Services Research, The University of New South Wales, Sydney, NSW, Australia


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The Article Metrics Module appears in the sidebar here

Metrics ⓘ [View all metrics](#) >

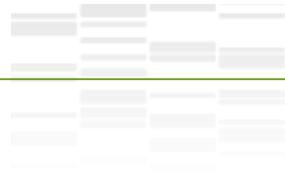
4  Citations in Scopus
82nd Percentile

2.14  Field-Weighted Citation Impact

 PlumX Metrics ▾
Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Plum analytics (5/6)


Plumx



Accès aux sources

PLUMX

Trees, forests and water: Cool i...



Trees, forests and water: Cool insights for a hot world

Citation data: Global Environmental Change, ISSN: 0959-3780, Vol: 43, Page: 51-61
Publication Year: 2017

CAPTURES 259 | **MENTIONS** 8 | **SOCIAL MEDIA** 1924 | **CITATIONS** 17 | **RATINGS**

Readers	257	Comments	4	Shares, Likes & Comments	1391	Citation Indexes	17	Reddit	8
Exports-Saves	2	Blog Mentions	2	Tweets	533				
		News Mentions	2						

ARTICLE SUMMARY | TWEETS | BLOG MENTIONS | NEWS MENTIONS

DOI: 10.1016/j.gloenvcha.2017.01.002

AUTHOR(S): David Ellison, Cindy E. Morris, Bruno Locatelli, Douglas Sheil, Jane Cohen, Daniel Murdiyarmo, Victoria Gutierrez, Meine van Noordwijk, Irena F. Creed, Jan Pokorny, [Show More](#)

PUBLISHER(S): Elsevier BV

TAGS: Environmental Science, Social Sciences

Source : <https://plu.mx/plum/a/?doi=10.1016%2Fj.gloenvcha.2017.01.002&theme=plum-science-direct-theme&hideUsage=true&display-tab=summary-content>

ARTICLE SUMMARY | TWEETS | BLOG MENTIONS | NEWS MENTIONS

This article has 2 Blog Mentions across 2 URLs.

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- <http://www.sciencedirect.com/science/article/...>
- 1
- <http://dx.doi.org/10.1016/j.gloenvcha.2017...>
- 1


Adventures in Self-Experimentation: Matrix Plowing Tropical Fields

July 19, 2017 | Cool Green Science: The Science Blog of The Conservation

Sometimes, science requires that you get dirty. And here we do. As graduate students, we never imagined that climate change research would lead to us plowing a rural Indiana farm field in 96 degree Fahrenheit heat, topped off with 100 percent humidity. But here we were....

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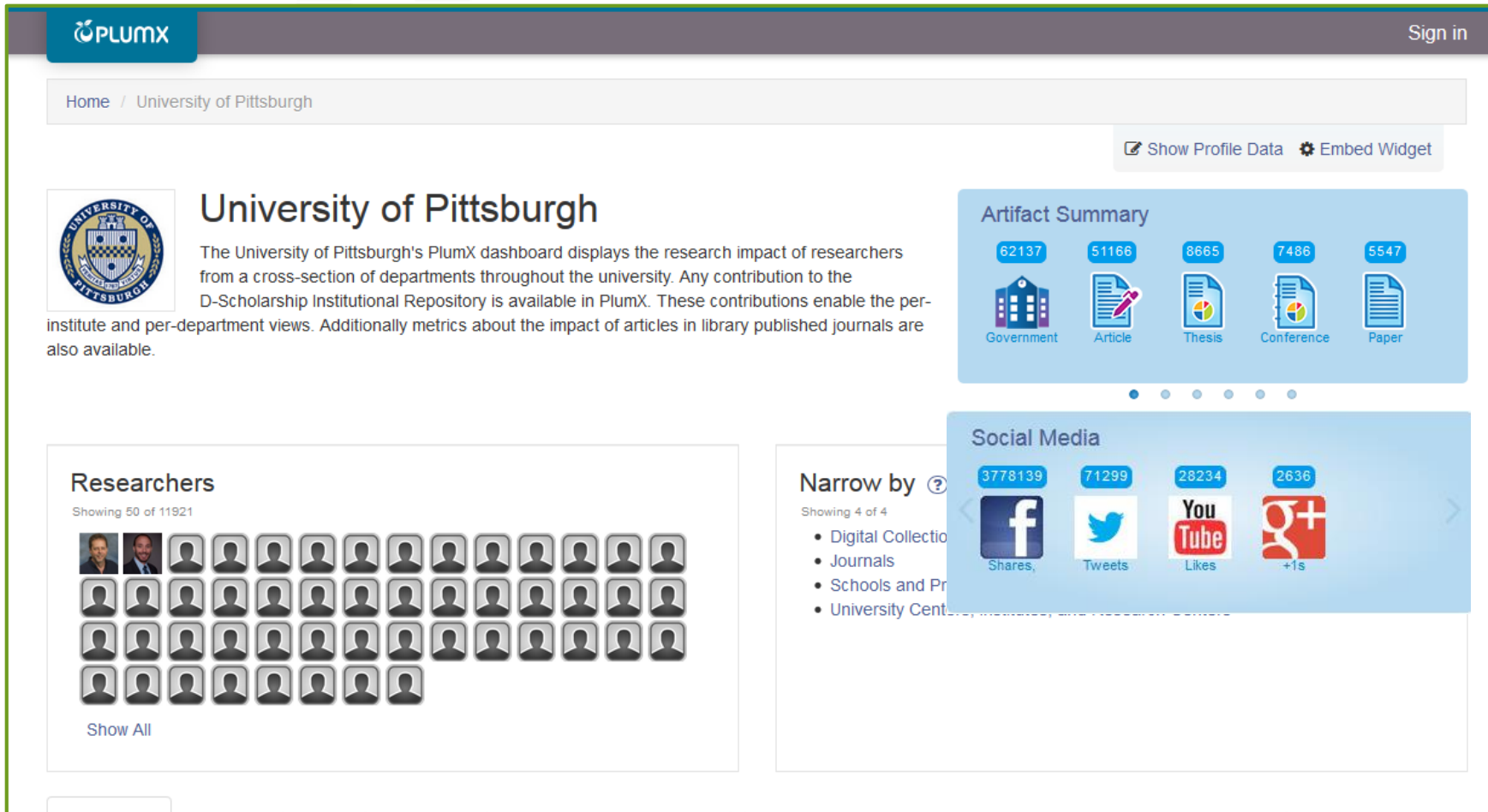
8:01 / 8:44

Journal of PLUM Avison 24/25/01/2018

CE Morris @bio_ice_nuclei

Plum analytics (6/6)

Plumx - Institution



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University of Pittsburgh

The University of Pittsburgh's PlumX dashboard displays the research impact of researchers from a cross-section of departments throughout the university. Any contribution to the D-Scholarship Institutional Repository is available in PlumX. These contributions enable the per-institute and per-department views. Additionally metrics about the impact of articles in library published journals are also available.

Researchers

Showing 50 of 11921

Showing 4 of 4

Artifact Summary

62137	51166	8665	7486	5547
Government	Article	Thesis	Conference	Paper

Social Media

3778139	71299	28234	2636
Facebook Shares	Twitter Tweets	YouTube Likes	Google+ +1s

Source : <https://plu.mx/plum/q/ptu/> (interrogé le 24/01/2017)

Article-level metrics (ALMs)

VIEWED:

PLOS Journals (HTML, PDF, XML), PubMed Central (HTML, PDF)

SAVED:

CiteULike, Mendeley

CITED:

CrossRef, Datacite, Europe PMC, PubMed Central, Scopus, Web of Science

RECOMMENDED:

F1000 Prime



DISCUSSED:

PLOS Comments, Facebook, Reddit, Twitter, Wikipedia

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Estimating virus effective population size and selection without neutral markers

Elsa Rousseau  , Benoît Moury, Ludovic Mailleret, Rachid Senoussi, Alain Palloix †, Vincent Simon, Sophie Valière, Frédéric Grognaud, Frédéric Fabre  

Version 2 Published: November 20, 2017 • <https://doi.org/10.1371/journal.ppat.1006702>

Article Authors **Metrics** Comments Related Content

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Totals	2,239	255	881	3,375

Nov 20, 2017 (publication date) through Jan 24, 2018 *


11.39 % of article views led to PDF downloads

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3,375 View	11 Share

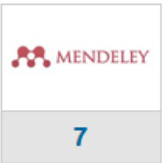
<http://journals.plos.org/plospathogens/article/metrics?id=10.1371/journal.ppat.1006702>

Article-level metrics (ALMs)

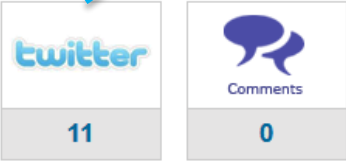
Cited ?



Saved ?



Discussed ?



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RT @Virus_Evolution: Estimating virus effective population size and selection without neutral markers. <https://t.co/ocX6yCNTKB> <https://t.co...>

December 20, 2017. <http://twitter.com/talzinger1/status/943344520086937601>
Discusses <http://doi.org/10.1371/journal.ppat.1006702> via Twitter
Twitter: NaN

RT @Virus_Evolution: Estimating virus effective population size and selection without neutral markers. <https://t.co/ocX6yCNTKB> <https://t.co...>

December 09, 2017. <http://twitter.com/sociovirology/status/939292743305633793>
Discusses <http://doi.org/10.1371/journal.ppat.1006702> via Twitter
Twitter: NaN

Estimating virus effective population size and selection without neutral markers. <https://t.co/ocX6yCNTKB> <https://t.co/YL0LDTqlrc>

December 08, 2017. http://twitter.com/Virus_Evolution/status/939075331440496641
Discusses <http://doi.org/10.1371/journal.ppat.1006702> via Twitter
Twitter: NaN



- ❖ **Organisation à but non lucratif (financement par la National Science Foundation,...)**
- ❖ **Permet aux chercheurs de mesurer et partager le produit de leur recherche**
 - traditionnel (articles)
 - produits émergents (blogs, jeux de données, logiciels)
 - Implémentation manuelle avec ses productions ou import automatique par paramétrage avec son profil google, identifiant Orcid, compte slideshare...
- ❖ **Sources des données très diverses**
- ❖ **Services gratuits**
- ❖ **Code source ouvert**

Impact story (2/2)



Impactstory



Jon Tennant

Open Science MOOC Founder

open access 91%

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ACHIEVEMENTS

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PUBLICATIONS

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472

Open Letter to The American Association for the Advancement of Science
2014 *The Winnower*
383

Sea level regulation the Jurassic/Cretaceous boundary
2016 *Nature Communications*
267

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- News mentions (34)
- Wikipedia articles (16)
- Google+ posts (11)
- Reddit posts (6)
- Public peer reviews (1)

2901 ONLINE MENTIONS OVER 1 YEARS

- Our once and future oceans
14 hours ago by *Letters From Gondwana*.
Biotic and environmental dynamics through the Late Jurassic-Early Cretaceous...
- 1 tweets click to hide
15 hours ago
- Jan 23rd by *CrystationalBio* 730 followers
A multi-disciplinary perspective on...
- 12. Peer Review: Anonymity Versus Identification 2
2 days ago by *Green Tea And Velociraptors*
A multi-disciplinary perspective on emergent and future innovations in peer...




<https://profiles.impactstory.org/u/0000-0001-7794-0218>

Higher antioxidant and lower cadmium concentrations and lower incidence of pesticide residues in organically grown crops: a systematic literature review and meta-analyses.

by Marcin Barański, Dominika Srednicka-Tober, Nikolaos Volakakis, Chris Seal, Roy Sanderson, ... show all authors

Biological Sciences > Miscellaneous Papers

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Overview

Related research

The British journal of nutrition (2014)

Pages: 1-18

ISSN: 1475-2662

ISBN: 1475-2662 (Electronic) 0007-1145 (Linking)

DOI: 10.1017/S0007114514001366

PubMed: 24968103

Available from The British journal of nutrition

or Find this paper at:

Abstract

Demand for organic foods is partially driven by consumers' perceptions that they are more nutritious. However, scientific opinion is divided on whether there are significant nutritional differences between organic and non-organic foods, and two recent reviews have concluded that there are no differences. In the present study, we carried out meta-analyses based on 343 peer-reviewed publications that indicate statistically significant and meaningful differences in composition between organic and non-organic crops/crop-based foods. Most importantly, the concentrations of a range of antioxidants such as polyphenolics were found to be substantially higher in organic crops/crop-based foods, with those of phenolic acids, flavanones, stilbenes, flavones, flavonols and anthocyanins being an estimated 19 (95 % CI 5, 33) %, 69 (95 % CI 13, 125) %, 28 (95 % CI 12, 44) %, 26 (95 % CI 3, 48) %, 50 (95 % CI 28, 72) % and 51 (95 % CI 17, 86) % higher, respectively. Many of these compounds have previously been linked to a reduced risk of chronic diseases, including CVD and neurodegenerative diseases and certain cancers, in dietary intervention and epidemiological studies. Additionally, the frequency of occurrence of pesticide residues was found to be four times higher in conventional crops, which also contained significantly higher concentrations of the toxic metal Cd. Significant differences were also detected for some other (e.g. minerals and vitamins) compounds. There is evidence that higher antioxidant concentrations and lower Cd concentrations are linked to specific agronomic practices (e.g. non-use of mineral N and P fertilizers

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Contribution of organically grown crops to human health

Eva Johansson, Abrar Hussain, Ramune Kuktaite, Staffan C. Andersson, Marie E. Olsson in *International Journal of Environmental Research and Public Health* (2014)

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42 readers

Readership Statistics

123 Readers on Mendeley

by Discipline

- 14% Biological Sciences
- 6% Medicine
- 5% Social Sciences

by Academic Status

- 10% Student (Master)
- 5% Ph.D. Student
- 4% Researcher (at a non-Academic Institution)

by Country

- 1% Australia
- 1% Switzerland
- 1% Spain

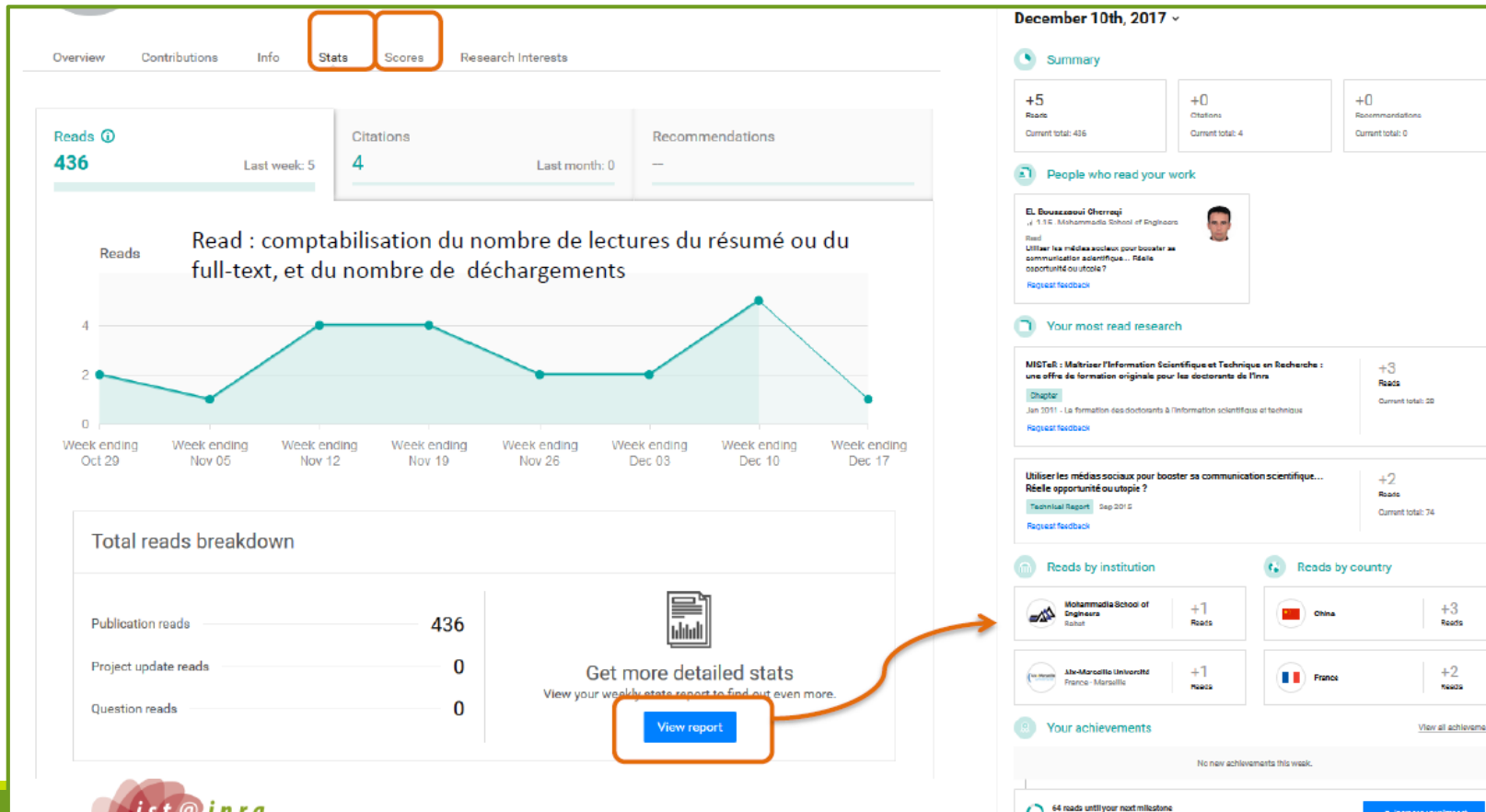
Tags

Antioxidants/(poly)phenolics

ResearchGate



- ❖ RG Score
- ❖ Reads : comptabilisation du nombre de lectures du résumé ou du full-text, et du nombre de téléchargements
- ❖ Citations
- ❖ Recommandations



❖ Mesure de l'intérêt d'un article par les utilisateurs du WoS

- Nombre de clics vers le site de l'éditeur
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Web of Science

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Higher antioxidant and lower cadmium concentrations and lower incidence of pesticide residues in organically grown crops: a systematic literature review and meta-analyses

By: [Baranski, M](#) (Baranski, Marcin)^[1]; [Srednicka-Tober, D](#) (Srednicka-Tober, Dominika)^[1]; [Volakakis, N](#) (Volakakis, Nikolaos)^[1]; [Seal, C](#) (Seal, Chris)^[2]; [Sanderson, R](#) (Sanderson, Roy)^[3]; [Stewart, GB](#) (Stewart, Gavin B.)^[4]; [Benbrook, C](#) (Benbrook, Charles)^[4]; [Biavati, B](#) (Biavati, Bruno)^[5]; [Markellou, E](#) (Markellou, Emilia)^[6]; [Giotis, C](#) (Giotis, Charilaos)^[7] ... More

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BRITISH JOURNAL OF NUTRITION
Volume: 112 Issue: 5 Pages: 794-811
DOI: 10.1017/S0007114514001366
Published: **SEP 14 2014**

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97
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Highly Cited Paper

Métriques classiques (citations)

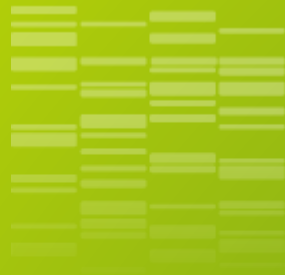
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Altmetrics



_03

DISCUSSION -PERSPECTIVES

Atouts et limites des métriques alternatives

	Atouts	Limites
Diversification des types de documents	Toutes les productions scientifiques	
Métrique de l'article	et non de la revue (IF)	
Sources	Activité Web qui échappe aux indicateurs traditionnels de la publication : Presse, réseaux sociaux, blogs, pages wiki...	<ul style="list-style-type: none"> - Identification des traces (Homonymie des noms des auteurs...) - Sources instables : pérennité et accessibilité non garanties
Vérifiabilité des sources	Possibilité de vérifier les sources (liens)	Mesures quantitatives : Pas d'analyse qualitative
Immédiateté	<ul style="list-style-type: none"> - Mise à jour en temps réel/indicateurs traditionnels - Identification d'experts 	Court terme pas forcément compatible avec le temps de la recherche
Mesure socialisation de la recherche	Mesure de l'impact de la recherche hors du monde académique	Reproductibilité des données contestée, risque de manipulations dans l'usage des réseaux sociaux
Standardisation		Pas de normes, pas de standardisation entre les différentes métriques
Disciplines	Toutes disciplines et langues	Biais pour certaines langues (anglais) et disciplines (médecine, physique)

Des atouts qui sont aussi des limites

Une attention dans les médias sociaux parfois biaisée

- ❖ en fonction de la discipline (articles médicaux), titre attractif (humoristique, accrocheur, vendeur...), de l'auteur



10

Were James Bond's drinks shaken because of alcohol induced tremor?

Johnson G, Guha IN, Davies P

Journal
British Medical Journal
Institution
Royal Derby Hospital

Category
Medical and Health Sciences
Country
United Kingdom



Score of attention

This is ranked 3rd in this journal.

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1559 tweets

165 Facebook posts
8 Google+ posts
2 Reddit posts

Article classé au 10^e rang
du [Top 100 de altmetric.com \(2014\)](#)

ARTICLE #1 OF 100

United States Health Care Reform: Progress to Date and Next Steps

[OPEN ACCESS COMMUNICATION IN DATA](#)

In the first academic paper to be published by a sitting president, Obama assesses the effect of the Affordable Care Act and recommends additional healthcare priorities for future governments.

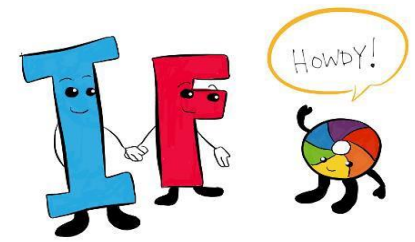
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- 2 peer reviews
- 14 fielded posts
- 1 article on F1000
- 2 wikipedia citations

Article classé au 1^e rang du
[Top 100 de altmetric.com \(2016\)](#)

Altmetrics pour évaluer la science?



- ❖ **"Ce n'est pas mieux que le mauvais facteur d'impact"**
 - Rapport "The Metric Tide« , Higher Education Funding Council for England
http://www.hefce.ac.uk/media/HEFCE,2014/Content/Pubs/Independentresearch/2015/The,Metric,Tide/2015_metric_tide.pdf
- ❖ **Ne sont pas des indicateurs de qualité de la recherche (le peer reviewing reste nécessaire) mais complémentaires des indicateurs traditionnels**
 - Corrélation faible entre altmetric score et taux de citation
- ❖ **Sont de bons indicateurs de la communication autour de la science : dans la sphère académique et en dehors (intérêt du public et de popularité)**

"En résumé, rien ne vaut une bonne évaluation par des pairs qui ne regardent pas ces indicateurs qui n'ont pas été conçus pour évaluer la recherche, mais évaluer la communication de la science ! " (Maisonneuve H, 13/08/2015, [Blog Rédaction médicale et scientifique](#))

NISO Recommended Practice: Outputs of the Alternative Assessment Metrics Project

Jill O'Neill, *National Information Standards Organization*

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Abstract

In September of 2016, the National Information Standards Organization (NISO) published the collaboratively produced Recommended Practice, *NISO RP-25-2016, Outputs of the Alternative Assessment Metrics Project*. Funded by the Alfred P. Sloan Foundation, the project sought to establish a consensus among stakeholders whose activities require robust and precise tools for gauging the impact and reach of scholarship in a globally networked research environment—more robust than were available from impact factor and other such measures.

Contributions to this effort came from an international population via one-on-one interviews, satellite meetings at conferences, and numerous teleconference gatherings. Based on those inputs, working group efforts coalesced around the need for a consensually derived definition of terms, the development of use cases illustrating the anticipated applications for such metrics, and the crafting of a code of conduct aimed at establishing benchmarks for improving the quality of altmetric data through a focus on transparency, replicability, and accuracy.

Recommended Citation

O'Neill, Jill (2016) "NISO Recommended Practice: Outputs of the Alternative Assessment Metrics Project," *Collaborative Librarianship*: Vol. 8 : Iss. 3 , Article 4.
Available at: <https://digitalcommons.du.edu/collaborativelibrarianship/vol8/iss3/4>



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Expert Group on Altmetrics

NEW: Final Report of the Expert Group on Altmetrics is available

Publication date: 20 March 2017

The Expert Group on Altmetrics outlines in this report how to advance a next-generation metrics in the context of Open Science and delivers an advice corresponding to the following policy lines of the Open Science Agenda: Fostering Open Science, Removing barriers to Open Science, Developing research infrastructures and Embed Open Science in society.

The report will be presented and discussed at the Open Science Policy Platform on 20 March 2017

The report can be downloaded here  796 KB

https://ec.europa.eu/research/openscience/index.cfm?pg=altmetrics_eg