

Survol des indicateurs de performance des auteurs

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Plan de la présentation

La bibliométrie

Les indicateurs de performance d'auteur

Quels outils consulter

Comment parler de vos réalisations

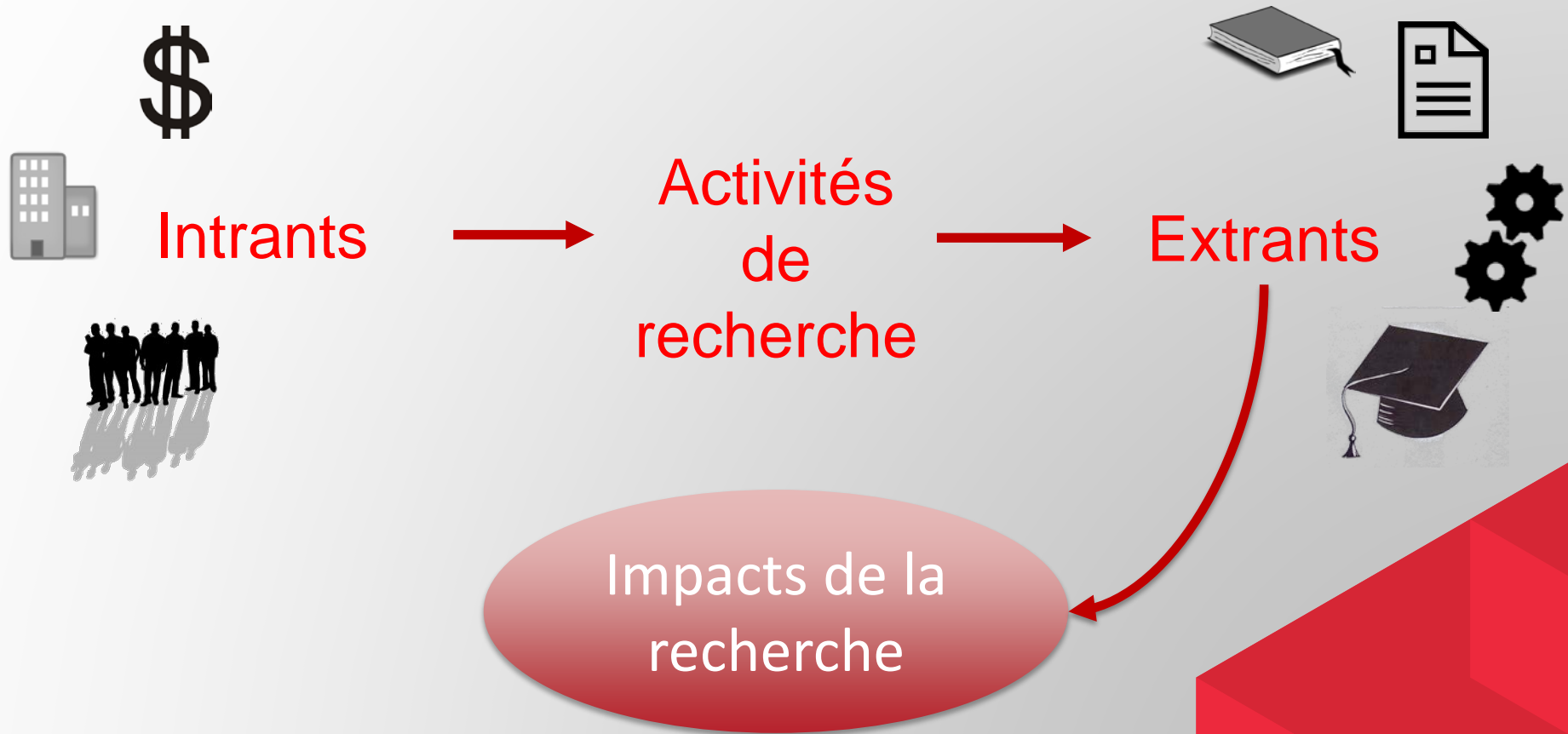
Les mauvaises pratiques



Bibliométrie

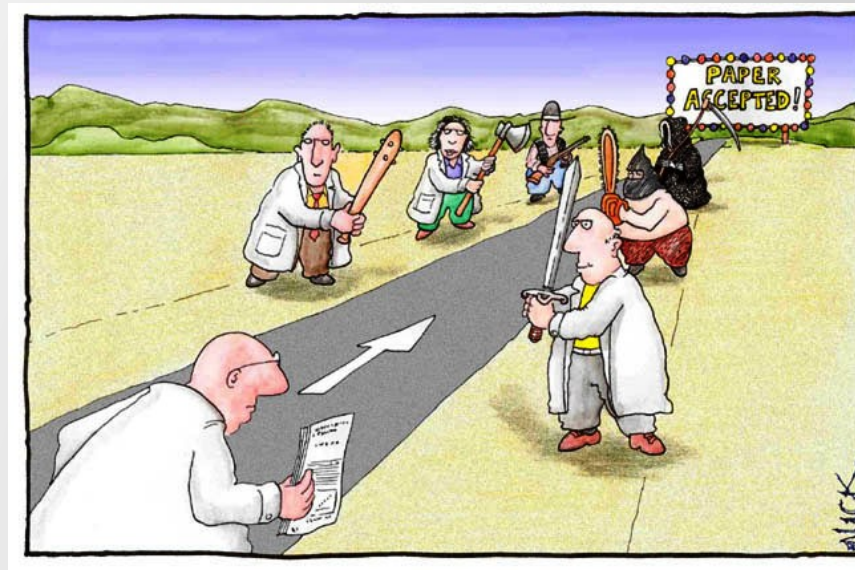


Les dimensions de la recherche



Pourquoi la bibliométrie est-elle importante?

Permet d'étudier l'avancement des connaissances





Le champ de recherche en bibliométrie

- Doté de sa propre revue internationale (*Scientometrics*) depuis 1978.
- Son prix international : La médaille *Derek John de Solla Price*.
- Sa société savante : l'*International Society for Scientometrics and Informetrics (ISSI)*.

Comportement des chercheurs

Engineering a gender bias

Female researchers cite their own work less than men. If citations are the currency of science, women are being short-changed



Concordia University

Her conference paper examined citation data of more than 12 million articles published across disciplines between 2008 and 2014, gathered from the Web of Science.

It found men cite their previous first-authored papers at a 37% higher rate than women. Furthermore, women's papers were self-cited at a higher rate by their immediate co-authors.

"Women don't self-promote their work as much as men, but on the other hand, their work is important because it is highly promoted, through citations by their co-authors," Ghiasi told Nature Index.

Murphy, F. (2017). Engineering a gender bias. *Nature*, 543(7646), S31-S31. doi: 10.1038/543S31a.
Repéré à <http://dx.doi.org/10.1038/543S31a>

Gita Ghiasi
candidate au PhD en génie mécanique et industriel,
Université Concordia

Influential journals in health research: a bibliometric study

R	Journal name	TC	TP	H	TC/TP	Year	Volume	IF	IF5	T50	T200	T200*	GR	First year
1	Journal of the American Medical Informatics Association	47258	3139	94	15,06	2000	7	3,932	4,182	26	0	0	40	1994
2	Health Physics	39417	4799	62	8,21	1990	58	0,774	1,105	4	1	1	52	1958
3	International Journal of Medical informatics	22736	1696	55	13,41	1997	44	2,716	-	5	0	0	80	1970
4	Methods of information in Medicine	17886	1704	47	10,5	1990	24	1,083	1,448	3	0	0	102	1962
5	Journal of Telemedicine and Telecare	16334	1980	45	8,25	1998	4	1,736	1,661	0	0	0	106	1995
6	Journal of Medical Internet Research	15683	1271	53	12,34	1999	1	4,669	5,724	4	0	0	108	1999
7	International Journal of Technology Assessment in Health Care	15141	1346	45	11,25	1995	11	1,556	1,565	3	0	0	112	1985
8	Health Technology Assessment	13181	650	56	20,28	2004	8	5,116	5,404	5	1	0	123	1997

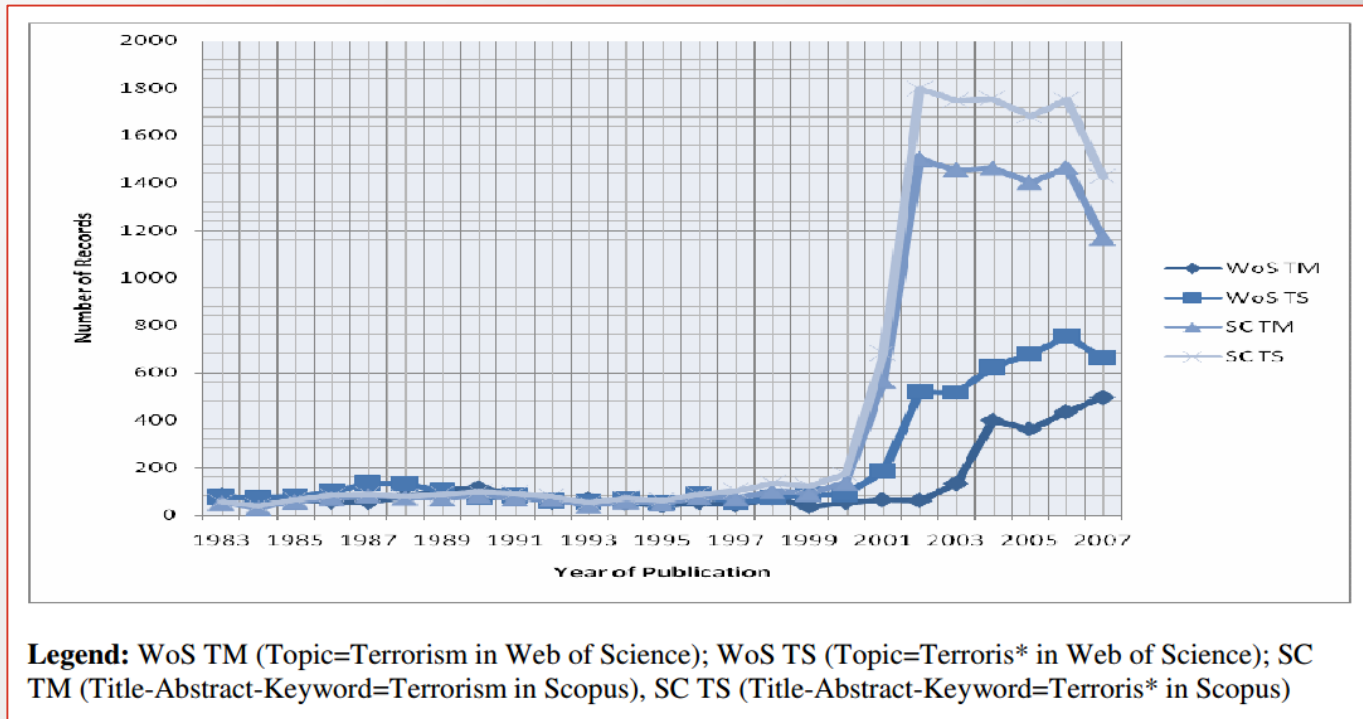
Analyse des principales revues

Merigó et Núñez, 2016, table 8.
Most influential journals in Health Informatics, Engineering and Technology



Research on Terrorism and Bibliometrics: Challenges and Paradoxes in use of Bibliometric Results

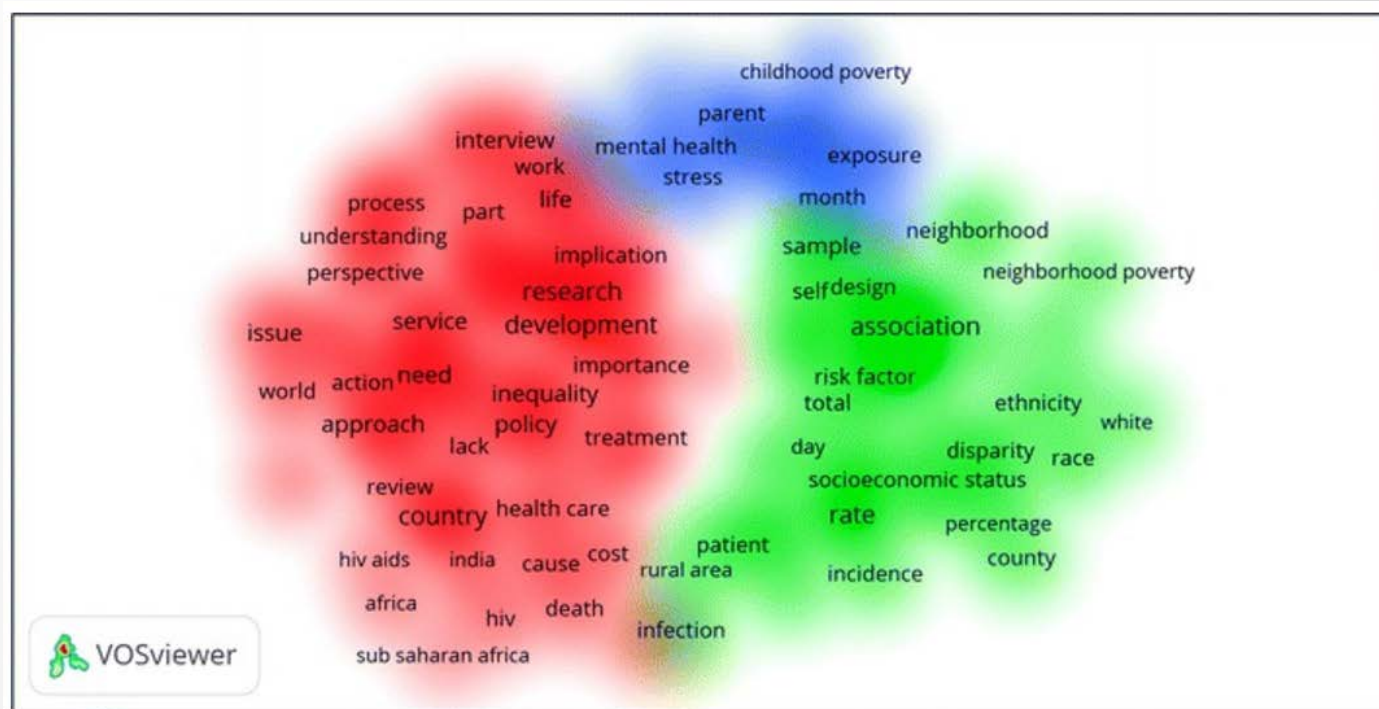
Émergence d'une préoccupation en recherche



Madacki et Kaljanac, (s.d.). Illustration de l'augmentation du nombres de publications après le 11 septembre 2001.

Analyse de terminologie dans un corpus de texte

Bibliometric analysis of medicine-related publications on poverty (2005–2015)

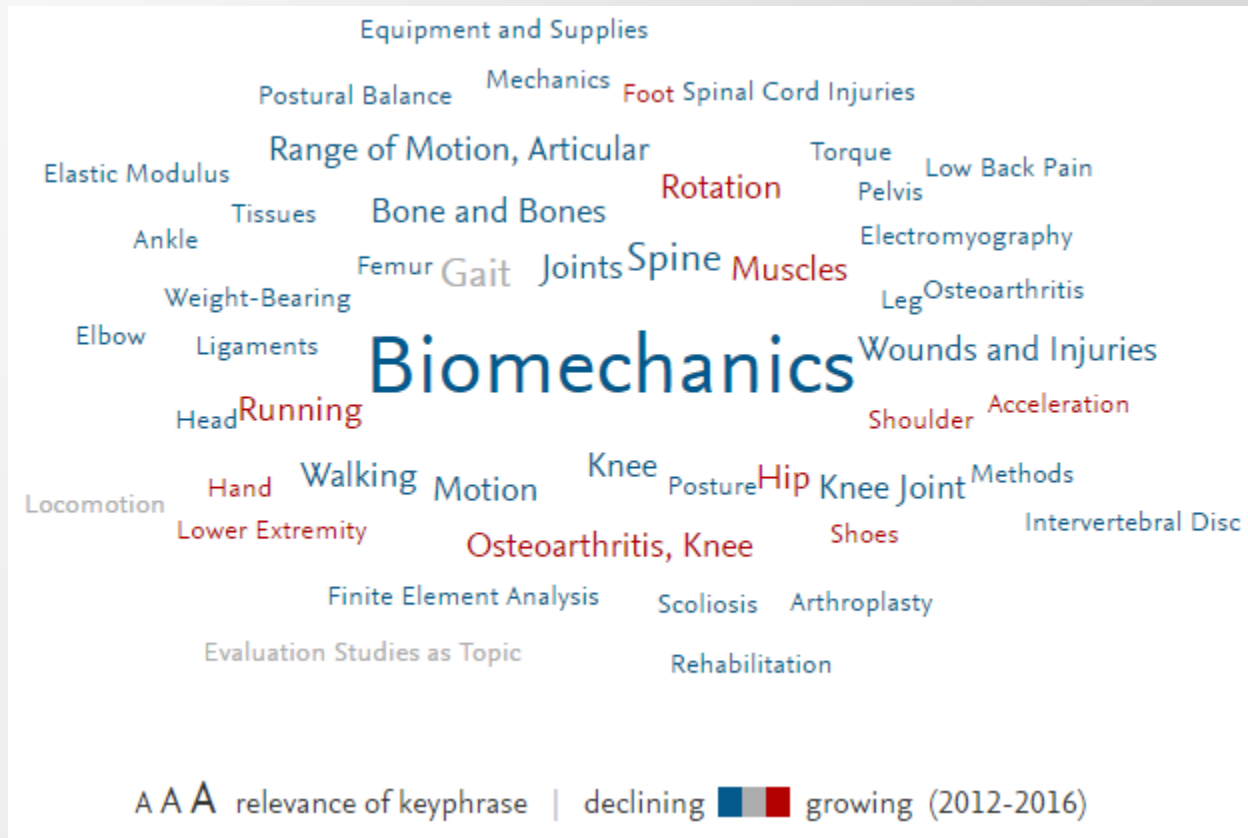


Density visualization map of most frequently related terms in retrieved articles

Sweileh, W. M., Al-Jabi, S. W., Sawalha, A. F., AbuTaha, A. S., & Zyoud, S. H. (2016). Bibliometric analysis of medicine-related publications on poverty (2005-2015). *Springerplus*, 5(1), 1888. doi: 10.1186/s40064-016-3593-3. Repéré à <https://www.ncbi.nlm.nih.gov/pubmed/27843745>

Analyse de terminologie dans un corpus de texte

Biomécanique au Canada
Outil : Scival d'Elsevier



Indicateurs de performance d'auteur

- Nombre de publications
- Nombre de citations
- Indice h (*h-index*)
- Moyenne de citations relatives *Average Relative Citations* sur WoS (*Field weighted citation impact – FWCI* sur Scopus)

Principales sources

Scopus



ELSEVIER



THOMSON REUTERS
WEB OF SCIENCE

Google
scholar

Louis DeFrate

Scopus

DeFrate, Louis E.

Duke University, Department of Orthopaedic Surgery, Durham, United States

Author ID: 6701669473

Documents: **75**

Citations: 2737 total citations by 1676 documents

h-index: 32 ?

Co-authors: 110

Subject area: Medicine , Engineering [View More](#)



WoS

Author Names

Last Known Organization

DEFRATE LE

Duke University

Also published as:

DEFRATE LOUIS E

DEFRATE L E

DEFRATE L

Records: **65**

[+ A Sampling of Publications by this Author:](#)

DeFrate, Louis E.

Duke University

Records: **1**

Google Scholar



Louis DeFrate

Orthopaedic Surgery, Mechanical Engineering and Materials Science, and Biomedical Engineering, [Duke](#)

[biomechanics](#), [osteoarthritis](#), [orthopaedics](#), [orthopaedic research](#), [ACL](#)

Verified email at duke.edu - [Homepage](#)



Citation indices

Citations

h-index

i10-index

this Author:

All

Since 2012

3885

2338

38

32

56

53

Title **1-92**

Cited by

Year

[The 6 degrees of freedom kinematics of the knee after anterior cruciate ligament deficiency an in vivo imaging analysis](#)

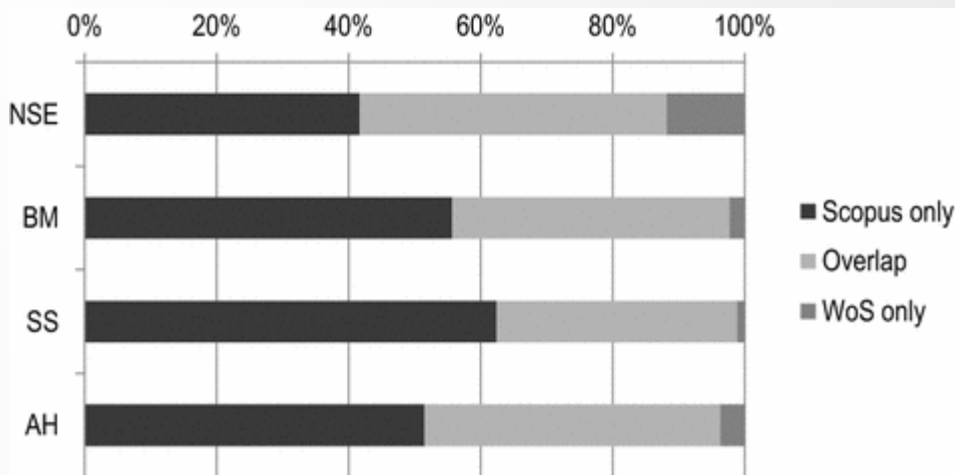
LE DeFrate, R Papannagari, TJ Gill, JM Moses, NP Pathare, G Li

The American journal of sports medicine 34 (8), 1240-1246

176

2006

14



NSE = Natural Sciences and Engineering
 BR= Biomedical Research
 SS = Social Sciences
 AH = Arts and Humanities

Mongeon et Paul-Hus, 2016, Figure 2

Articles / Actes de conférence	Citations WoS	Citations Scopus
Interface shear strength of titanium implants with a sandblasted an	300	320
Adjacent vertebral failure after vertebroplasty - A biomechanical inv	260	304
The effect of cement augmentation on the load transfer in an osteo	201	252
Removal torque values of titanium implants in the maxilla of miniat	188	207
Improved accuracy of pedicle screw insertion with computer-assiste	175	217

Mauvaises pratiques

- Évaluation de la qualité basée sur des indicateurs quantitatifs
- Facteur d'impact
- Auto-citations (*self-citations*)
- « Salami science »
- Classements mondiaux



Tenté de manipuler vos indicateurs?

Retraction Watch

An editor in chief was caught manipulating citations. Now he's been asked to resign.

with one comment

An earth science journal has asked an editor to resign after it was revealed he had been manipulating citations of scientific journals.

Nature retracts paper by stem cell scientist appealing her dismissal

[Artemi Cerdà](#) had already been asked to resign from *Development* after he was asked to resign from other journals. He now announces that Cerdà

with 2 comments

A once-rising star in stem cell biology — who recently lost both her job and a sizable grant — has had a fourth paper retracted.

Here's [the entire story](#)

[Read the rest of this](#)

The notice — issued by *Nature* for a 2006 letter — cites duplicated images, and a lack of raw data to verify the findings. First author Susana Gonzalez — who was dismissed from her position at the National Center for Cardiovascular Research (CNIC) in Spain last February over allegations of misconduct — couldn't be reached by the journal.

Here's the [full text of the retraction notice](#):

[Read the rest of this entry »](#)



Susana Gonzalez

Parler de vos réalisations

Les **contributions** à la recherche les plus importantes

Citations
Altmetrics
Citations dans des brevets

Leadership

Collaborations

Potentiel de devenir un **chef de file** dans votre domaine

Évolution des indicateurs

Qualité du candidat:

- réalisations ont eu un impact marqué dans son domaine;
- potentiel de se tailler une réputation internationale dans son domaine

Citations relatives
Positionnement dans son domaine

Conventions propres à la **discipline**

- Facteur d'impact
- Médiane : référence d'évaluation des revues
 - Moyenne: référence d'évaluation des citations

Lectures suggérées

- [Leiden Manifesto for research metrics published in Nature](#)
- [Dérives et effets pervers de l'évaluation quantitative de la recherche : sur les mauvais usages de la bibliométrie](#)
- [Self-selected or mandated, open access increases citation impact for higher quality research](#)
- [The weakening relationship between the impact factor and papers' citations in the digital age](#)

Plus de bibliométrie...

- Auto-citations
- Altmetrics
- Classements mondiaux
- Réseaux de citations
- Libre accès
- Indicateur SNIP
- Indicateur Eugenfactor
- Impact de la recherche



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