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Scientific conferences

Hundreds of conferences each year <https://waset.org/civil-engineering-conferences>, all around the world

- By topic
- Papers (10-15 pages)
- Presentations
- Poster presentations

Example :

<https://www.isma-isaac.be/isma2022/>

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Scientific conferences

The screenshot shows the ISMA 2020 website. The header features the ISMA logo and navigation links: HOME, ISMA2020, USD2020, ISMA45, ISAAC31, PUBLICATIONS, ORGANISERS, LOCATION, CONTACT, PAST EDITIONS, and MY ACCOUNT. Below the header, there are links for Objectives, Abstract Submission, Important dates and registration, Preliminary schedule, ISMA Conference Venue, and Scientific committee. The main content area is titled "Abstract submission" and contains text about the abstract submission process, including a deadline of 15 January, 2020. At the bottom, there is a button labeled "Submit your abstract" with a circular arrow icon.

- Generally « soft » reviewing -> quality not ensured
- Often « work in progress » presented
- Allows to meet people and build a network of scientific contacts
- It is a business, many poor quality conferences (and related papers)

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Journal papers

- Journal papers :
 - Many journals (by topic)
 - Peer-reviewing process

Home > Journals > Construction and Building Materials



ISSN: 0950-0618

Submit Your Paper

Supports Open Access

View Articles

Construction and Building Materials

An international journal dedicated to the investigation and innovative use of materials in construction and repair

Editor-in-Chief: [Michael C. Forde](#)

> [View Editorial Board](#)

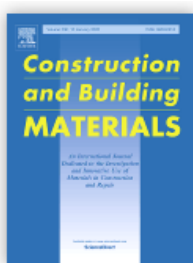
An international journal dedicated to the investigation and innovative use of materials in construction and repair.

Construction and Building Materials provides an international forum for the dissemination of innovative and original research and development in the field of **construction and building materials**...

[Read more](#)

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Journal papers



This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal.

Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper.

The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final.

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Journal papers

<https://www.elsevier.com/journals/construction-and-building-materials/0950-0618/guide-for-authors>

Highlights

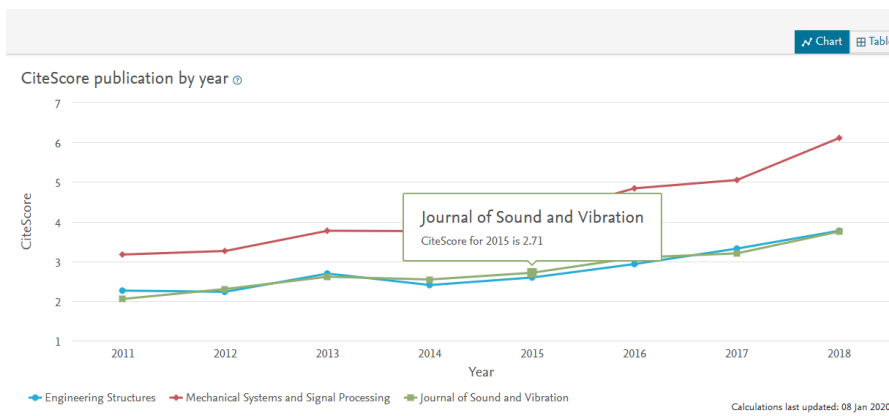
Highlights are mandatory for this journal as they help increase the discoverability of your article via search engines. They consist of a short collection of bullet points that capture the **novel results of your research** as well as **new methods that were used** during the study (if any).

- Peer-reviewing is not a failsafe process.
- Always be critical about what you read and cross-check information with other references.
- Journal publications is also a business, not all journals have the same standards and quality

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Journal statistics

www.scopus.com

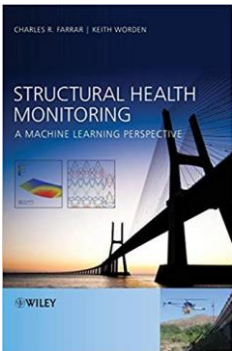


Pay attention : open access journals trick the game ...

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Books


- Long manuscripts
- Usually not peer-reviewed (reviewing by editor)
- Collection of chapters from different authors
- Single author



- Found on editor websites
- Or even on amazon
- Quite expensive (150 Eur+)

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Researcher statistics



Arnaud Deraemaeker

Université Libre de Bruxelles

Adresse e-mail validée de ulb.ac.be

Structural Health Monitoring Damage detection ultrasonics dynamics vibrations

Suivre

TITRE	CITÉE PAR	ANNÉE
Vibration-based structural health monitoring using output-only measurements under changing environment A Deraemaeker, E Reyniers, G De Roeck, J Kuffa Mechanical systems and signal processing 22 (1), 34-56	780	2008
Dispersion and pollution of the FEM solution for the Helmholtz equation in one, two and three dimensions A Deraemaeker, I Babuška, P Bouillard International journal for numerical methods in engineering 46 (4), 471-499	462	1999
A six-axis single-stage active vibration isolator based on Stewart platform A Preumont, M Horodincă, I Romanescu, B De Marnette, M Avraam, ... Journal of sound and vibration 309 (3-5), 644-661	281	2007
Mixing rules for the piezoelectric properties of macro fiber composites A Deraemaeker, H Naess, A Benjeddou, A Preumont Journal of intelligent material systems and structures 20 (12), 1475-1482	222	2009
Damage localization using transmissibility functions: A critical review S Chastell, A Deraemaeker Mechanical systems and signal processing 38 (2), 569-584	209	2013
Monitoring of concrete structures using the ultrasonic pulse velocity method G Karaliskos, A Deraemaeker, DG Aggelis, D Van Hemelrijck Smart Materials and Structures 24 (11), 113001	168	2015
New trends in vibration based structural health monitoring A Deraemaeker Chimie Libre	152	2010
Numerical evaluation of the equivalent properties of Macro Fiber Composite (MFC) transducers using periodic homogenization A Deraemaeker, H Naess International journal of solids and structures 47 (24), 3272-3285	143	2010
A comparison of linear approaches to filter out environmental effects in structural health monitoring A Deraemaeker, K Worden Mechanical systems and signal processing 195, 1-15	142	2018

OBTENIR MON PROPRE PROFIL

Citée par

TOUT AFFICHER

	Toutes	Depuis 2020
Citations	5423	2106
Indice h	35	23
Indice i10	73	48



Accès public

TOUT AFFICHER

3 articles

38 articles

non disponibles

disponibles

Sur la base des exigences liées au financement

Coauteurs

 Pierre Ladevèze
ENS Paris-Saclay

 babuska i
Professor Emeritus, Oden Institu...

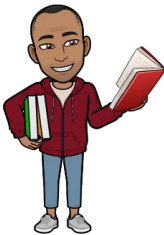
 Eloi Figueiredo
Full Professor, Universidade Lus...

Google scholar

<https://scholar.google.com/citations?user=hAJ1d8AAAAJ&hl=en>

Scopus

<https://www.scopus.com/authid/detail.uri?authorid=6602740234>



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Access to Publications



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Access to publications

Searching for publications :

<https://www.google.com> <https://scholar.google.com/>
(shows citation rate, recent publications, who cited who ...)

Elsevier : <https://www.sciencedirect.com/>

Springer : <https://link.springer.com/>

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Access to publications through ULB/VUB

ULB access (use EZ-proxy if not on site) :

- Institutional access to elsevier, databases (scopus)

<https://bib.ulb.be/>

- Dépôt institutionnel

<https://difusion.ulb.ac.be/>

VUB access (use EZ-proxy if not on site) :

- <https://biblio.vub.ac.be/> ([link in English](#))

Flanders Research Information Space (FRIS)

- <https://researchportal.be/en>

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Access to publications

The not so fair system of scientific publishing (what there is behind ...)

- Researchers produce journal papers (generally funded by public money)
- Researchers ensure quality of papers (peer-review, generally for free)
- Publishers sell access to the work of researchers to universities (public money)

The alternatives :

- Gold open Access
- Green open Access (embargo period)
- Diamond open Access
- Illegal servers for « free science » : sci-hub, libgen

→ If the paper is not too old, write to the authors to obtain a copy

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The principle of Open Access



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The gold open access model



But this does not solve the problem, a lot of money is still flowing to the private sector

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The green open access model



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The diamond open access model



Edition is supported by the public sector :

- No more money flowing to private sector
- Less financial issues -> generally better quality of science



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Summary

“Do you feel overwhelmed by the number of research papers in your field? Do you wonder if you’re missing key ideas that could be critical for your research program? Does it feel like the deluge is only getting worse?”

You’re not imagining things. According to research from the University of Ottawa, in 2009 we passed the 50 million mark in terms of the total number of science papers published since 1665, and approximately 2.5 million new scientific papers are published each year”.

[<http://blog.cdnsiencepub.com/21st-century-science-overload/>]

- Pay attention to quality, be critical, cross-check results
- • Check quality of researcher/journal/conference
- Check the number of citations (taking into account publication year)

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Research and Career



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The scientific career

Performing a PhD

- Finding financement
- Performing and defending the research

Following with a Post-Doc

Working in industry

Acquiring an academic position in a university



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The academic career

The pros :

- Flexible schedule
- Freedom of the research
- World traveling (conf, projects, ...)
- Cooperation with emerging countries
- Stability of position (once tenure track)

The cons

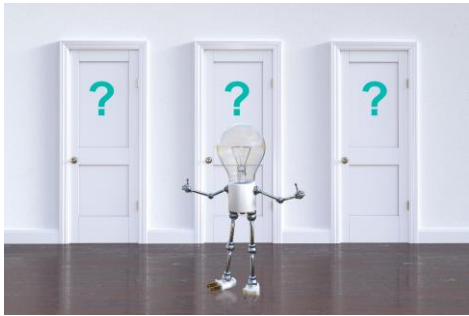
- Takes time to stabilize
- Average salary
- A lot of administration to perform
- Competition to obtain research credits is high



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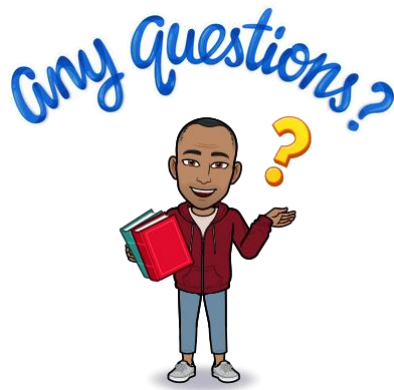
Choosing a research topic

- Interest for the topic
- Experimental vs numerical work
- Working environment and supervising 'style'
- Opportunities to continue (PhD, post-Doc)



-
- Meet your supervisor
 - Ask questions about supervision scheme, ... and future opportunities

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