

Jochen Bihn

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# Open Access to Publications in Horizon 2020

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# The Mandate: Grant Agreement Art. 29.2

*"Each beneficiary must ensure open access (free of charge, online access for any user) to all peer-reviewed scientific publications relating to its results."*

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## WHY OPEN ACCESS TO SCIENTIFIC PEER-REVIEWED PUBLICATIONS?

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### GOOD FOR SCIENCE

allows scientists to build on previous research results and avoids unnecessary duplication of effort  
improved quality and greater efficiency



### GOOD FOR THE ECONOMY

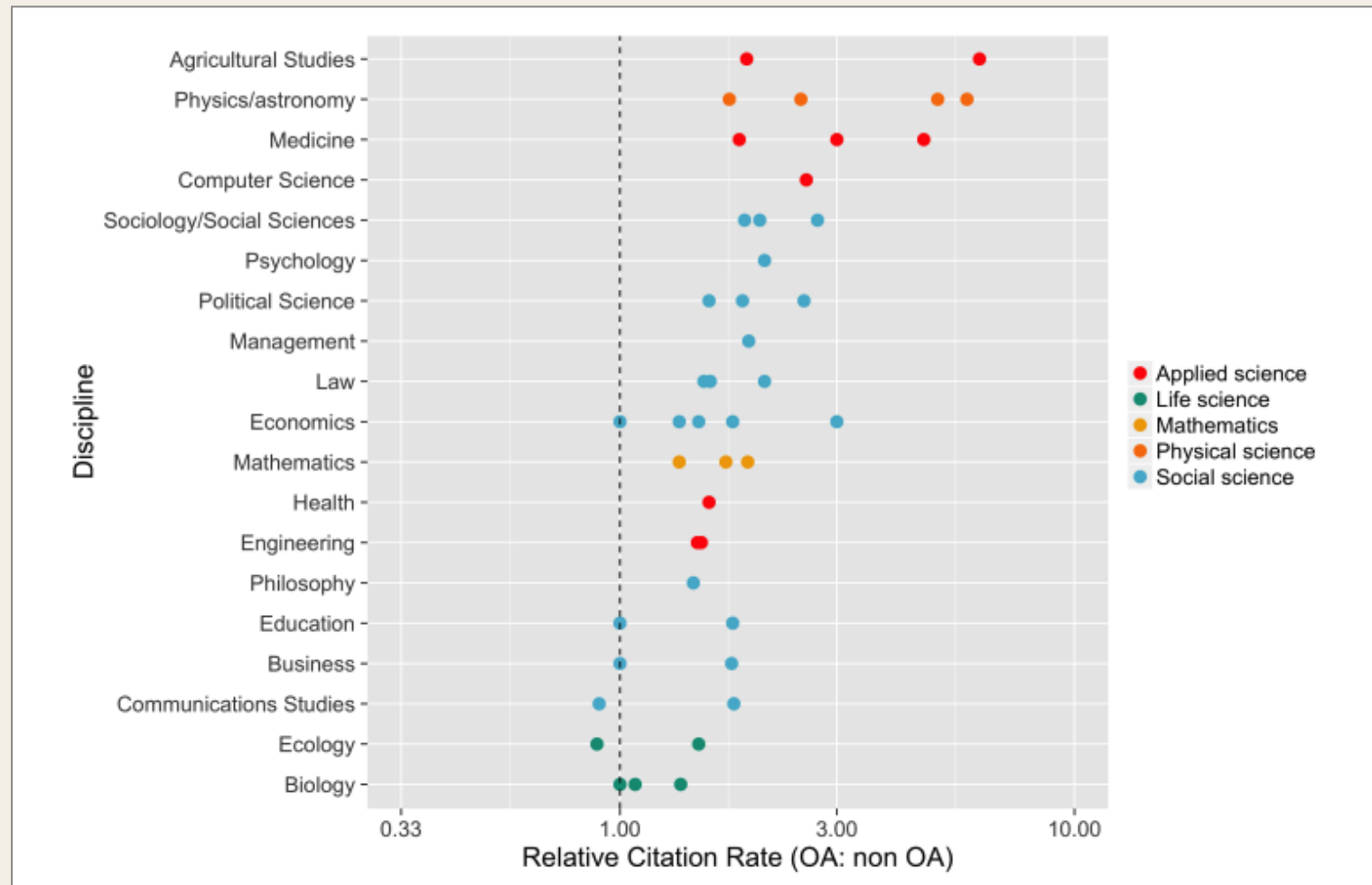
speeds up innovation  
faster progress to market



### GOOD FOR SOCIETY

makes research available to individual citizens and to non-profit organisations  
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# Open access articles get more citations



# How to publish Open Access



## Gold Open Access

Publish in open-access journals

**Hybrid Open Access:** OA in a subscription journal



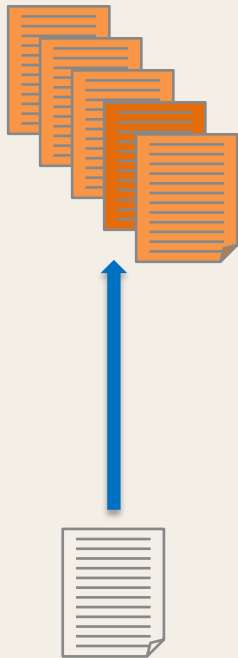
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Publish “normally” –  
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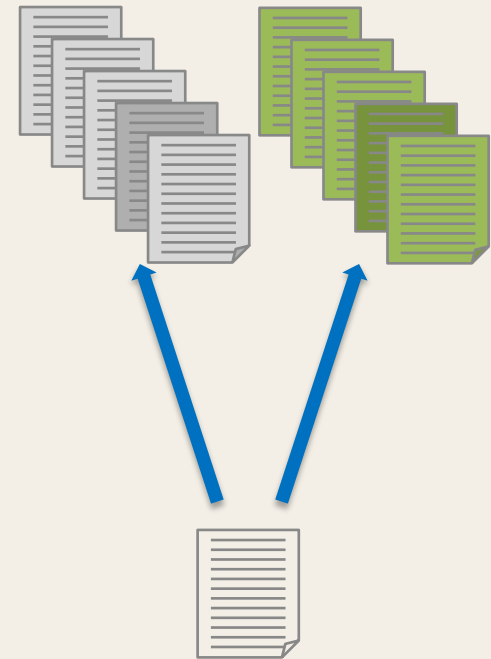
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## Hybrid Open Access



## Green Road



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**Date added to DOAJ:** 29 Jan 2009  
**APC: 1400CHF**

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ISSN: 2299-3177 (Online)  
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<input type="checkbox"/>	3 Lancet Global Health	2,649	17.686	0.01538
<input type="checkbox"/>	3 Lancet Global Health	2,649	17.686	0.01538
<input type="checkbox"/>	5 Light-Science & Applications	2,856	14.098	0.01106
<input type="checkbox"/>	6 STUDIES IN MYCOLOGY	2,390	14.000	0.00499
<input type="checkbox"/>	7 Physical Review X	7,645	12.789	0.05795
<input type="checkbox"/>	8 Living Reviews in Solar Physics	974	12.455	0.00411
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<input type="checkbox"/>	12 NUCLEIC ACIDS RESEARCH	156,800	10.162	0.37519



# 3'800+ Open Access Journals indexed in Scopus

The screenshot shows the Scopus Sources page. At the top, the Scopus logo is on the left, and navigation links for Search, Sources, Alerts, Lists, Help, SciVal, Register, and Login are on the right. The 'Sources' page title is in a blue header. Below the header, there is a search bar with the text 'Search for a source' and a 'Browse sources' button. A dropdown menu for 'All Subject Areas' is visible. A filter for 'Display only Open Access journals' is checked and highlighted with a red circle. Below the filter is a 'Display sources' button and a navigation bar with letters A through Z. The main content area shows '3,765 results' and a table of journal entries. The table has columns for 'Source title', 'CiteScore', 'SJR', 'SNIP', and 'Type'. The first entry is 'MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control' with a CiteScore of 18.29, SJR of 14.208, and SNIP of 10.978. Other entries include 'Living Reviews in Relativity', 'Studies in Mycology', 'Nature Communications', 'Light: Science and Applications', 'Living Reviews in Solar Physics', 'MMWR. Surveillance summaries : Morbidity and mortality weekly report. Surveillance summaries / CDC', 'Materials Today', 'Genome Biology', 'Microbiome', and 'Physical Review X'. Each entry includes an 'Open Access' link.

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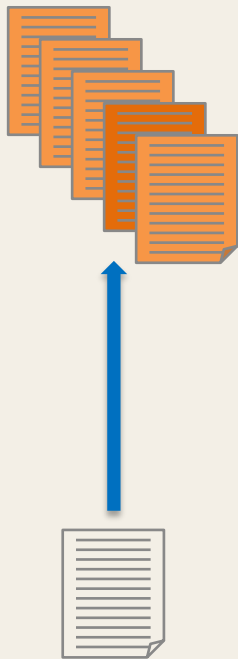
Source title	CiteScore	SJR	SNIP	Type
MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control Open Access	18.29	14.208	10.978	Journal
Living Reviews in Relativity Open Access	16.53	9.535	7.851	Journal
Studies in Mycology Open Access	14.62	6.468	6.561	Journal
Nature Communications Open Access	11.80	6.399	2.995	Journal
Light: Science and Applications Open Access	11.71	5.110	4.203	Journal
Living Reviews in Solar Physics Open Access	11.59	5.305	4.814	Journal
MMWR. Surveillance summaries : Morbidity and mortality weekly report. Surveillance summaries / CDC Open Access	11.51	7.395	11.086	Journal
Materials Today Open Access	11.20	7.167	5.305	Journal
Genome Biology Open Access	11.12	10.484	2.846	Journal
Microbiome Open Access	10.60	6.225	2.321	Journal
Physical Review X Open Access	10.08	7.044	2.779	Journal

# Open Access Journals: Business Models

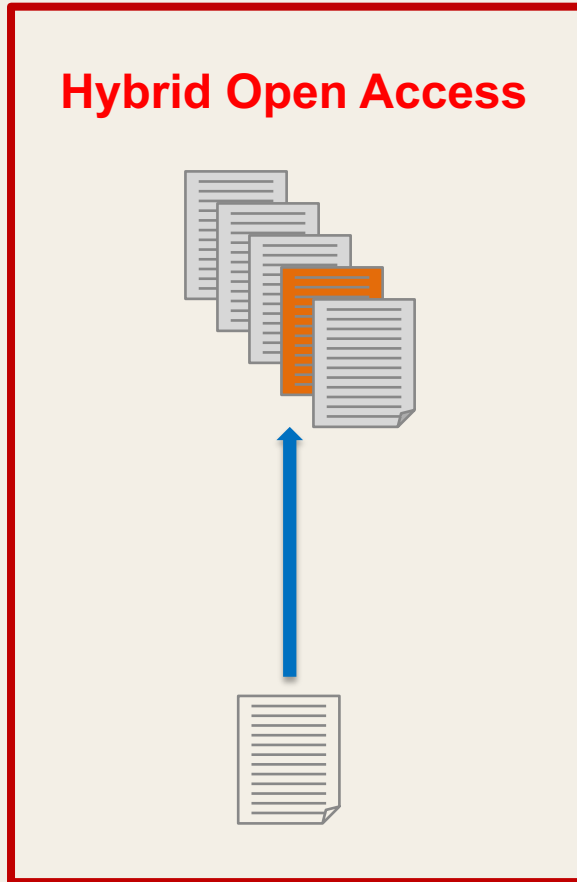
- Article Processing Charges – APC
  - **32%** of DOAJ-Journals
    - <https://doajournals.wordpress.com/2015/05/11/historical-apc-data-from-before-the-april-upgrade/>
  - 8 US\$ - 5200 US\$; avg.: 906 US\$
    - <http://www.openaccesspublishing.org/apc2/>
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  - e.g. eLIFE (<http://elifesciences.org/>)
- SCOAP3 <http://scoap3.org/>
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  - redirecting subscription money from libraries worldwide
- And more ...

# Open Access

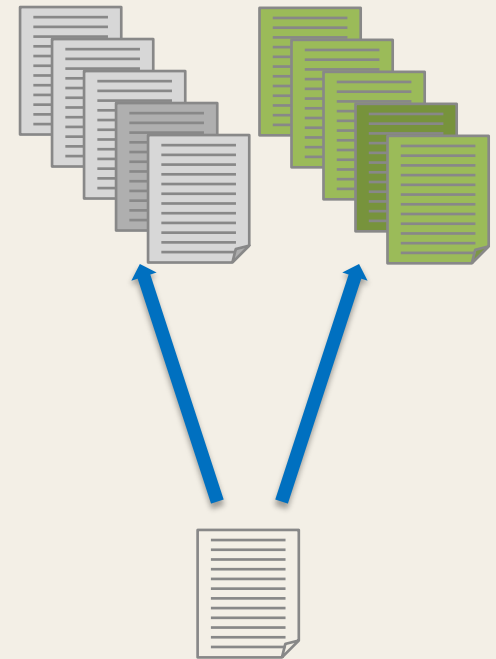
Golden Road



Hybrid Open Access



Green Road



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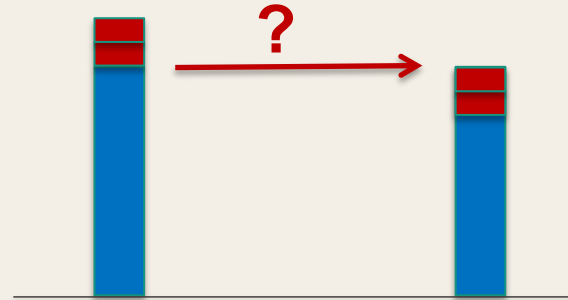
...

# Hybrid Open Access

- Individual articles in subscription journals are made Open Access after paying a fee (e.g. [Springer Open Choice](#), [Wiley Online Open](#))
- Most articles in these journals are not Open Access
- More expensive than pure Open Access journals
- typical APC: 3000 US\$

# Hybrid Open Access – The Problem

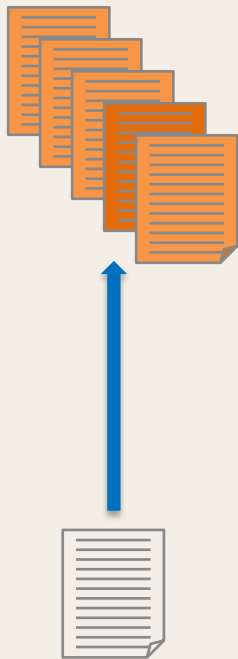
- ↪ Revenues for a journal
  - „Author pays“ APC
  - +
  - „Library pays“ subscription



- ↪ Publishers claim “No double dipping policies”
  - » Springer: Subscription prices adjusted, if a threshold of 3 % Open Access articles is reached for an individual journal  
(from: Springer Library Summit, Vienna 2011)
  - » List prices do not reflect bundle prices -> not verifiable
- ↪ Model might still be interesting for authors

# Open Access

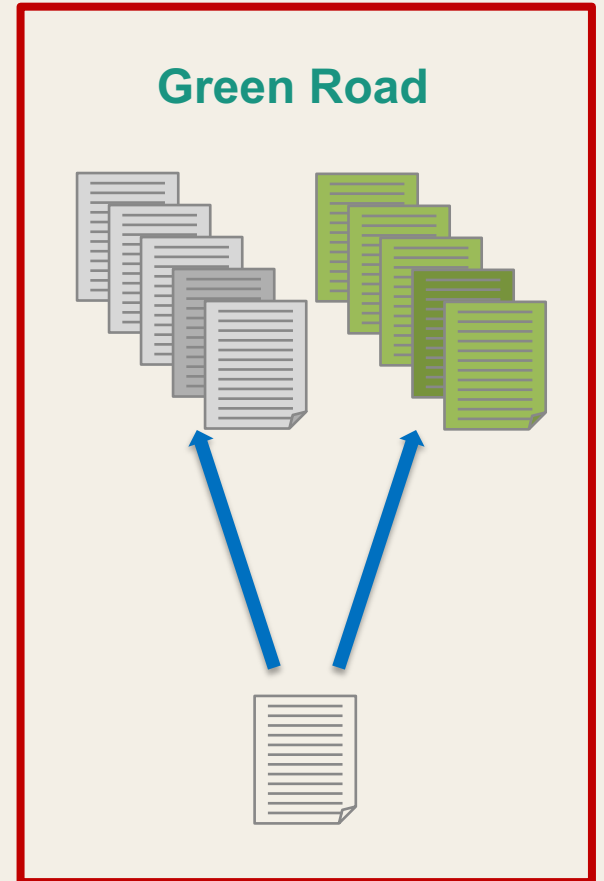
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Hybrid Open Access



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# Green Open Access

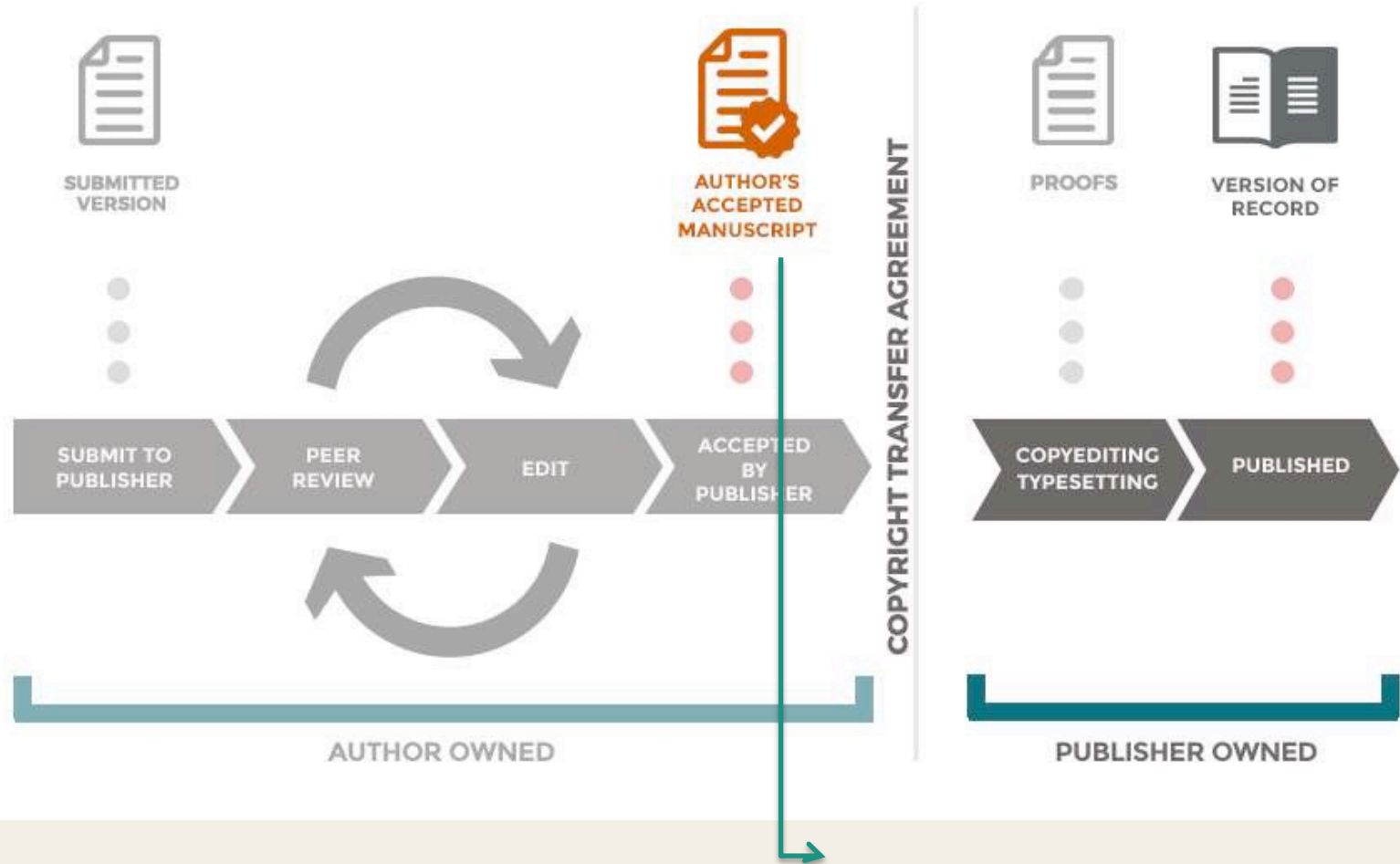
- aka “author self-archiving”
- Two Steps:
  - 1) Publish your article in a subscription journal
  - 2) Archive a version of your article in a repository
- 81% of publishers formally allow some form of self-archiving ([www.sherpa.ac.uk/romeo/statistics.php](http://www.sherpa.ac.uk/romeo/statistics.php), 16.4.2018)
- No additional charges are payable
- Most publishers impose some conditions on self-archiving



# Conditions (1): Where can you archive?

- Mostly allowed: **non-commercial sites**, e.g.
  - Your personal webpage
  - **Institutional Repository (DORA PSI)**
  - Disciplinary Repository (e.g. [www.arxiv.org](http://www.arxiv.org))
  - Cross-Institutional Repository (e.g. [www.zenodo.org](http://www.zenodo.org))
- Mostly not allowed: **commercial sites**, e.g.
  - ResearchGate
  - Academia.edu

# Conditions (2): Versions matter!



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# Condition (3): Embargo Period

- Most publishers make authors wait before they are allowed to make their material Open Access (embargo period)
- The length of **embargo periods** varies. Embargos between 6 months and 24 months are common.
- Embargo periods are managed in repositories. Upload you accepted manuscript as soon as possible.

# Embargo Periods: The Dilemma

Horizon 2020: Beneficiaries must

- a) as soon as possible and at the latest on publication, deposit a copy of the published version or final peer-reviewed manuscript accepted for publication in a repository for scientific publications.
- b) ensure Open Access to the deposited publication — via the repository — **at the latest within six months of publication**

But many publishers request an embargo period of **>12 months!**

# What you can do about it

- Publish in another journal
- Negotiate a shorter embargo with the publisher
  - write/call the editor
  - make amendments to the publisher's copyright agreement
    - EC template: <https://www.openaire.eu/h2020-oa-guide-model-for-publishing>
  - Negotiate before you sign the copyright agreement
  - Be prepared, explain, be persistent
  - Needs written confirmation
- Pay the fee for hybrid Open Access

# How do you find out?

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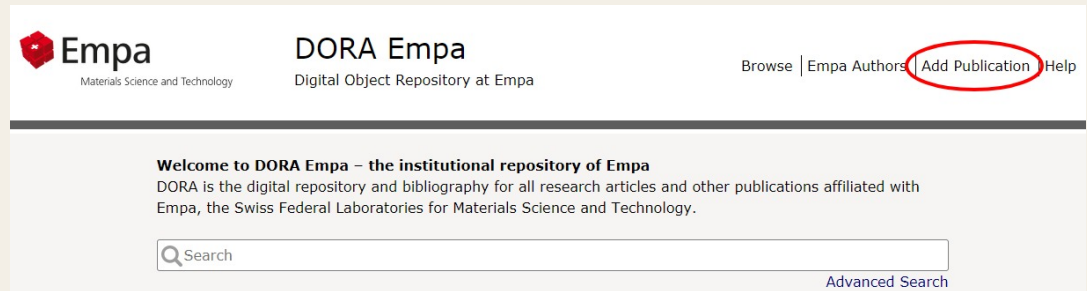
## Search - Publisher copyright policies & self-archiving

One journal found when searched for: 0001-5970

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<b>RoMEO:</b>	This is a <a href="#">RoMEO green</a> journal
<b>Paid OA:</b>	A paid open access option is <b>available</b> for this journal.
<b>Author's Pre-print:</b>	✓ author <b>can</b> archive pre-print (ie pre-refereeing)
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Paper not yet in DORA



## Measurement of the $^{43}\text{Sc}$ production cross-section with a deuteron beam

Carzaniga TS, [van der Meulen NP](#), [Hasler R](#), Kottler C, Peier P, Türlér A, [Vermeulen E](#), Vockenhuber C & Braccini S

APA

### Citation

Carzaniga, T. S., van der Meulen, N. P., Hasler, R., Kottler, C., Peier, P., Türlér, A., ... Braccini, S. (2019). Measurement of the  $^{43}\text{Sc}$  production cross-section with a deuteron beam. *Applied Radiation and Isotopes*, 145, 205-208. <https://doi.org/10.1016/j.apradiso.2018.12.031>

### Persistent URL

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$^{43,44}\text{Sc}/^{47}\text{Sc}$  is one of the most promising theranostic pairs in nuclear medicine. The co-emission of 1157 keV  $\gamma$ -rays with 99.9% branching ratio by  $^{44}\text{Sc}$  and the presence of its metastable state  $^{44m}\text{Sc}$  push to favour the adoption of  $^{43}\text{Sc}$  for Positron Emission Tomography (PET) diagnostic procedures to lighten the dose to the patient and to the personnel. The emitter  $^{43}\text{Sc}$  can be produced at a medical cyclotron by proton bombardment of an enriched  $^{43}\text{Ca}$  or  $^{46}\text{Ti}$  oxide target.  $^{43}\text{Sc}$  can be also produced by deuteron bombardment of an enriched  $^{42}\text{Ca}$  oxide target. Only a few medical cyclotrons currently in operation offer deuteron beams. Some can be adapted to operate both a proton or a deuteron source. To compare these three production routes, an accurate knowledge of the cross-sections is essential. In this paper, we report on the cross-section measurement of the reaction  $^{42}\text{Ca}(d,n)^{43}\text{Sc}$  performed at the 6 MV HVEC EN-Tandem of the Ion Beam Physics group at ETH in Zürich. A study of the production yield by using commercially available enriched target materials is also presented.

Details

### Publication Type

Journal Article

### Title

Measurement of the  $^{43}\text{Sc}$  production cross-section with a deuteron beam

Paper already in DORA



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The hydration of  $\beta$ - and  $\alpha'$ -H-dicalcium silicates: an X-ray spectromicroscopic study.  
ACS Sustainable Chemistry and Engineering, 7(2), 2316-2326.  
<https://doi.org/10.1021/acssuschemeng.8b05060>

## The Hydration of $\beta$ - and $\alpha'$ -H-Dicalcium Silicates: An X-ray Spectromicroscopic Study

Jiaqi Li<sup>§</sup>, Guoqing Geng<sup>§,§\*</sup>, Wenxin Zhang<sup>§</sup>, Young-Sang Yu<sup>§</sup>, David A. Shapiro<sup>§</sup>, and Paulo J.M. Monteiro<sup>§</sup>

<sup>§</sup>Department of Civil and Environmental Engineering, University of California, Berkeley, 725 Davis Hall, UC Berkeley, California, 94720 United States

<sup>§</sup>Laboratory for Waste Management, OHLD/004, Paul Scherrer Institut, 5232 Villigen PSI, Switzerland

<sup>‡</sup>Advanced Light Source, Lawrence Berkeley National Laboratory, Building 2, 0437 Berkeley, California, 94720, United States

\*Corresponding author: [guoqing\\_geng@berkeley.edu](mailto:guoqing_geng@berkeley.edu)

**KEYWORDS.** Portland cement; dicalcium silicate; low carbon cement; silicate chain polymerization; calcium silicate hydrate; calcium coordination; morphology

### ABSTRACT

Dicalcium silicate (C<sub>2</sub>S) is an important clinker mineral in Portland and belite-calcium sulfoaluminate cement. However, there is still a lack of information on the local degree of silicate polymerization and calcium coordination in C<sub>2</sub>S hydration products. This study aimed to

## The hydration of $\beta$ - and $\alpha'$ -H-dicalcium silicates

Geng G, Li J, Zhang W, Yu Y-S, Shapiro D

APA

**Citation** Geng, G., Li, J., Zhang, W., Yu, Y. S., Shapiro, D. A., & Monteiro, P. J. M. (2019). The hydration of  $\beta$ - and  $\alpha'$ -H-dicalcium silicates: an X-ray spectromicroscopic study. *ACS Sustainable Chemistry and Engineering*, 7(2), 2316-2326. <https://doi.org/10.1021/acssuschemeng.8b05060>

**Persistent URL** <https://www.psi.ch/publications/10.1021/acssuschemeng.8b05060>

Dicalcium silicate (C<sub>2</sub>S) is an important clinker mineral in Portland and belite-calcium sulfoaluminate cement. However, there is still a lack of information on the local degree of silicate polymerization and calcium coordination in C<sub>2</sub>S hydration products. This study aimed to fill this gap by characterizing the local structure of C<sub>2</sub>S hydration products using X-ray spectromicroscopy. The results showed that the coordination of the Ca species in the hydration products was heterogeneous, whereas, in  $\alpha'$ -H-C<sub>2</sub>S, the hydration products exhibited coarser fibrils than the Op of  $\beta$ -C<sub>2</sub>S, and a

Details

**Publication Type** Journal Article

**Title** The hydration of  $\beta$ - and  $\alpha'$ -H-dicalcium silicates: an X-ray spectromicroscopic study

**Author(s)** Geng, Guoqing; Li, Jiaqi; Zhang, Wenxin; Yu, Young-Sang; Shapiro, David A.; Monteiro, Paulo J.M.

**Journal** ACS Sustainable Chemistry and Engineering

hydration of  $\beta$ - and  $\alpha'$ -H-dicalcium silicates, *ACS Sustainable Chemistry and Engineering*, 7(2), 2316-2326.

However, there is still a lack of information on the local degree of silicate polymerization and calcium coordination in C<sub>2</sub>S hydration products. This study aimed to fill this gap by characterizing the local structure of C<sub>2</sub>S hydration products using X-ray spectromicroscopy. The results showed that the coordination of calcium silicate hydrate (Op) of both polymorphs was heterogeneous, whereas, in  $\alpha'$ -H-C<sub>2</sub>S, the hydration products exhibited slower than Op; however, the coordination degree of Op was relatively homogeneous. It is concluded that the Op of  $\alpha'$ -H-C<sub>2</sub>S exhibits

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Journal	OA Mode	OA Version
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Acta Biomaterialia	Green OA	Accepted Version (Under Embargo)
Advanced Materials	Green OA	Accepted Version
Cement and Concrete Research	Green OA	Accepted Version (Under Embargo)
Chemistry: A European Journal	Green OA	Accepted Version (Under Embargo)
Environmental Pollution	Green OA	Accepted Version (Under Embargo)
Environmental Science and Technology	Hybrid OA	Published Version
International Journal of Hydrogen Energy	Closed Access	
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Journal of Materials Science	Green OA	Accepted Version
Journal of Materials Science	Green OA	Accepted Version
Journal of Physical Chemistry B	Green OA	Accepted Version
Journal of Physical Chemistry Letters	Green OA	Accepted Version
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Science	Green OA	Accepted Version (Under Embargo)
Scientific Reports	Gold OA	Published Version
Scientific Reports	Gold OA	Published Version
Tellus, Series B: Chemical and Physical Meteorology	Gold OA	Published Version

# Summary

- Think about a strategy how to comply with the EC Open Access mandate **before you submit** your manuscript to a journal
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- If you choose to publish OA via Green Open Access:
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    - Consult SHERPA/RoMEO-Database <http://www.sherpa.ac.uk/romeo/> & publisher website
  - Does the journal require an embargo period of >6 months?
    - Negotiate
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# Questions?

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# This was only about Open Access for **publications**, but

**OPEN RESEARCH DATA  
IN HORIZON 2020**

**CHALLENGE**

Wider access to scientific facts and knowledge helps researchers, innovators and the public find and re-use data, and check research results:

- offers better value for EU research funds
- encourages research across scientific fields
- a public benefit
- essential for solving today's complex societal challenges

**SOLUTION**

Horizon 2020 already mandates open access to **all scientific publications**

From 2017, **research data is open by default**, with possibilities to **opt out**

The infographic features a central orange header with a circular icon containing a microscope, magnifying glass, document, folder, book, and Euro symbol. Below this, the 'CHALLENGE' section is on the left and the 'SOLUTION' section is on the right. The 'CHALLENGE' section includes four interconnected boxes with icons: a Euro coin, a network of nodes, a magnifying glass over a document, and a globe with a microscope. The 'SOLUTION' section features a monitor icon with an open padlock and a faint background image of a human head profile.