Open Access run by and for professional scientists

Experiences with SciPost

Open Access in Action Conference
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Plan of the talk

- SciPost
- The infrastructure
- The business model
- The team



What is it?

A complete publishing portal

(from preprint to metadata curation)

Who runs it?

Professional scientists

(is and will remain grassroots)

What does it offer?

- Journals
- Commenting
- Metadata services

Summary?

- Openness
- Quality

What does it aim to achieve?

A complete reform of publishing at all levels

- Implement Genuine Open Access two-way: free for readers, free for authors
- Implement a healthier business model
 - strict editorial/financial decoupling
 - no profit-making on the back of scientists
 - consortial model; not based on APCs
- Modernize the refereeing procedure
 - open; more credit to referees
 - streamline post-publication feedback
- Reform impact assessment

Genuine Open Access Principles

Genuine Open Access Principles				
[CO]	Community Ownership	The Journal has a transparent community-anchored ownership structure, and is controlled by and responsive to the scholarly community.		
[01]	Open Infrastructure	The infrastructure for operating the Journal belongs to, and is open sourced to the community. The entire technological stack and all operating protocols are documented and made easily transferable between community owners.		
[CA]	Copyright to authors	Authors of articles in the Journal retain copyright. The Journal assists authors in protecting their rights in case of infringement.		
[OA]	Open Access	All articles are published open access and an explicit open access licence is used which is preferably Approved for Free Cultural Works.		
[OC]	Open Citations	The Journal makes its citation metadata openly accessibly by actively participating in the Initiative for Open Citations.		
[FF]	Fee Free	Submission, peer evaluation and publication are not conditional in any way on the payment of a fee from authors or their employing institution, or on membership of an institution or society.		
[NP]	Non Profit	The Journal publisher's operations are entirely non profit.		
[OF]	Open Finances	The Journal's finances are openly published and available for public scrutiny.		
[AE]	Academic Editing	The editorial processes of the Journal are run by the community, and all editorial decisions are taken by active professional scientists, using exclusively academic scholarship-based criteria.		

☆ Journals - Submissions - More - About SciPost -

Login or register

Latest Publications

Condensed Matter Physics - Theory

Foliated fracton order from gauging subsystem symmetries

Wilbur Shirley, Kevin Slagle, Xie Chen

SciPost Phys. 6, 041 (2019) · published 2 April 2019

Condensed Matter Physics - Theory

Comparing many-body approaches against the helium atom exact solution

Jing Li, N. D. Drummond, Peter Schuck, Valerio Olevano

SciPost Phys. 6, 040 (2019) · published 1 April 2019

High-Energy Physics - Theory

Comments on one-form global symmetries and their gauging in 3d and 4d

Po-Shen Hsin, Ho Tat Lam, Nathan Seiberg

SciPost Phys. 6, 039 (2019) · published 29 March 2019

View all Publications

Latest Submissions

Quantum Physics

Reproducing topological properties with quasi-Majorana states

by A. Vuik, B. Nijholt, A. R. Akhmerov, M. Wimmer

Submitted 2019-03-31 to SciPost Physics

Mathematical Physics

Thermodynamic limit of the two-spinon form factors for the zero field XXX chain

by Nikolai Kitanine, Giridhar Kulkarni

Submitted 2019-03-28 to SciPost Physics

Atomic, Molecular and Optical Physics – Experiment

Sub-Doppler laser cooling of ³⁹K via the 4S→5P transition

by Govind Unnikrishnan, Michael Gröbner, Hanns-Christoph Nägerl

Submitted 2019-03-26 to SciPost Physics

View all Submissions

Our future: Plan SciPost

It is time for us to be bold and unleash the next steps in our implementation plans.

Read more here

Register

Professional scientists (PhD students and above) can become Contributors to SciPost by filling the registration form.

News 5

SciPost top of the class at Crossref metadata

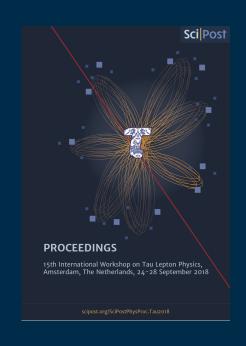
27 March 2019

An independent study of scientific metadata collections has recently highlighted the quality of our publishing services. According to Dr Habermann (Boulder, Colorado), SciPost has the most complete metadata of all 8670 CrossRef members with current collections of journal articles.

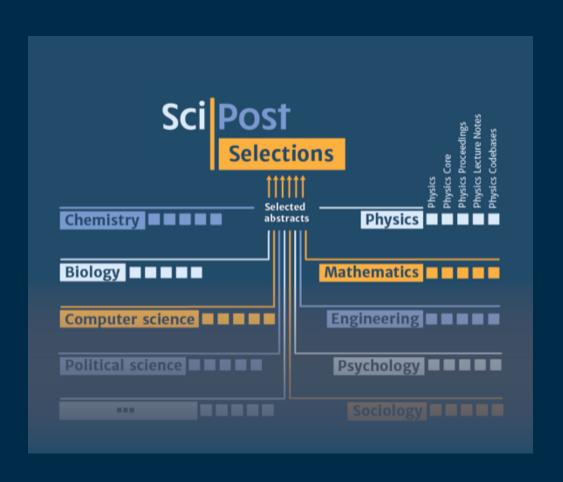
Journals

- SciPost Physics
- SciPost Physics Core
- SP Lecture Notes
- SP Proceedings
- SP Codebases

~640 publications as of now

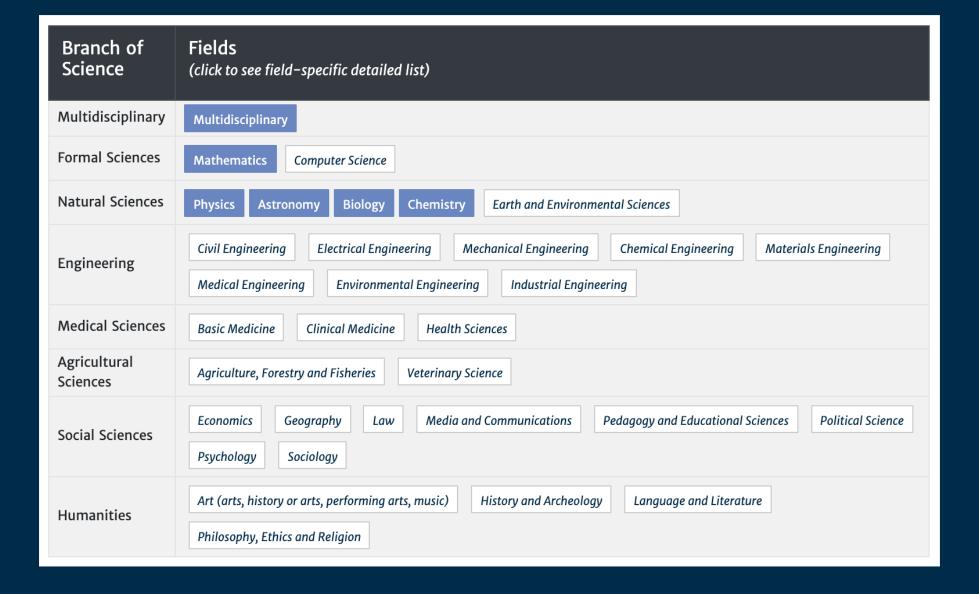


Sci Post Roadmap: immediate future



- Physics upscaling
- Astronomy
- Biology
- Chemistry
- Maths
- Selections
- Codebases
- Metrics
- Meta services

ScilRostdmap: longer term



SciPost SciPost's infrastructure

Based exclusively on Free Software

Tech stack:

All our systems are built from scratch.

We leverage and contribute to FOSS.

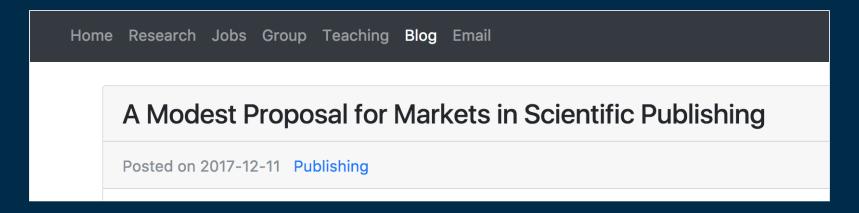
- Diango [Python web framework]
- Postgresql [database engine]
- Bootstrap [frontend]
- MathJax [LaTeX javascript engine]
- **Vue.is** [frontend @ scipost-xmeta.org]
- GitLab [hub @ scipost-codebases.org]
- Haystack, Celery, RabbitMQ, Flower...

Let's now talk business...

I love markets!

(heck, I'm from Canada, I even trained as a stock broker)

Markets work well... except when they don't



Publishing: prime example of capitalism propped up by socialism

Classifying publishing business models

Home Research Jobs Group Teaching Blog Email

Noble metals for a noble cause

Posted on 2017-09-20 Publishing

Gold [Au]	APC-based financing	
Platinum [Pt]	publisher does not apply any charges to authors (APCs, submission charges or any other), and is funded through a consortial scheme or equivalent	
Palladium [Pd]	publisher runs a purely not-for-profit public enterprise: none of its activities generate any profit, and all financial statements are publicly disclosed	

Iron [Fe]	subscription-based financing, or pay-to-read
Lead [Pb]	editorial and financial aspects are not hermetically decoupled

Grade	Principle	Characteristics	
10-karat	generosity to readers: open access	make full text of publications freely available to readers (Creative Commons license)	
14-karat	generosity to authors: copyright, embargo	 copyright is given to the authors without restrictions publishing occurs without any embargo period 	
18-karat	generosity to users: reuse, remix, crawl, citations	 publication license allows reuse and remixing of content (CC BY, BY-SA or BY-NC licenses) publisher allows text mining (software/spiders can automatically crawl journal content) publisher makes its citation data publicly available (ideally via participation in I4OC) 	
22-karat	generosity to reviewers: open reports	refereeing reports are openly visible and citable	
24-karat	generosity to community: academic control	the entire responsibility for publication decisions is in the hands of active professional scientists	

A useful exercise

Educate yourself on the business model of publishers you:

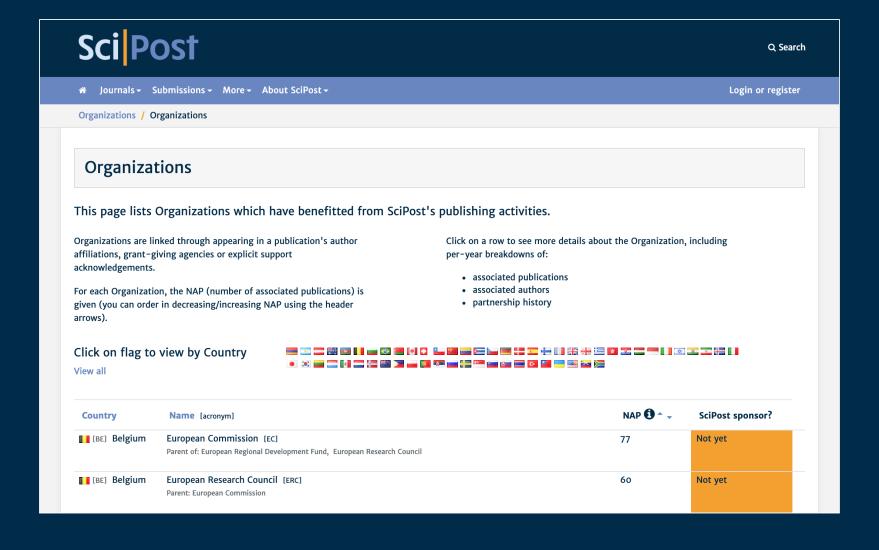
- publish with
- referee for
- perform editorial work for

Watch out for wolves in sheep's clothing

SciPost's business model

- no APCs, no subscriptions [Platinum]
- fully not-for-profit operations [Palladium]
- costs: about €400 per publication
 A fraction of the current norm!
- consortial model: donations
 (inspirations: arXiv, OLH, ...)

Organizations benefitting from our activities





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Organizations / FWF Austrian Science Fund



Fonds zur Förderung der wissenschaftlichen Forschung / FWF Austrian Science Fund [FWF]

Parent: Austrian Academic Library Consortium

Details

Publications

Associated Authors

Support history

Publications associated to this Organization:

2019

- Sub-Doppler laser cooling of ³⁹K via the 4S→5P transition by Govind Unnikrishnan, Michael Gröbner, Hanns-Christoph Nägerl, SciPost Phys. 6, 047 (2019)
- Quantum null energy condition and its (non)saturation in 2d CFTs
 by Christian Ecker, Daniel Grumiller, Wilke van der Schee, Shahin Sheikh-Jabbari, Philipp Stanzer,
 SciPost Phys. 6, 036 (2019)
- Search for lepton-flavour-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector by Wing Sheung Chan on behalf of the ATLAS collaboration, SciPost Phys. Proc. 1, 048 (2019)
- Multiloop functional renormalization group for the two-dimensional Hubbard model: Loop convergence of the response functions by Agnese Tagliavini, Cornelia Hille, Fabian B. Kugler, Sabine Andergassen, Alessandro Toschi, Carsten Honerkamp, SciPost Phys. 6, 009 (2019)
- Tangent-space methods for uniform matrix product states by Laurens Vanderstraeten, Jutho Haegeman, Frank Verstraete, SciPost Phys. Lect. Notes 7 (2019)

The PubFractions System

- Upon publication, authors are asked to apportion a unit of "support credit" between organizations
- These fractions are then linked to the relevant Organizations
- Every year, SciPost computes an average full infrastructure cost per publication
- Organizations can use this to determine their level of support

Sci Post The PubFractions System

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Note however that this data is used to set the suggested level of support from external Organizations which SciPost needs to remain sustainable.

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PubFractions: visible by sponsors



Publications associated to this Organization (with total PubFractions 1):

2019 (total pubfractions: 1.900)

 Conformal field theory on top of a breathing one-dimensional gas of hard core bosons by Paola Ruggiero, Yannis Brun, Jérome Dubail, SciPost Phys. 6, 051 (2019)

Pubfraction: 0.500

 Equilibrium fluctuations in maximally noisy extended quantum systems by Michel Bauer, Denis Bernard, Tony Jin, SciPost Phys. 6, 045 (2019)

Pubfraction: 0.300

• Search for lepton-flavour-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector by Wing Sheung Chan on behalf of the ATLAS collaboration, SciPost Phys. Proc. 1, 048 (2019)

Pubfraction: 0.000

Status of DUNE

by Alessandra Tonazzo on behalf of the DUNE Collaboration, SciPost Phys. Proc. 1, 043 (2019)

Pubfraction: 0.700

• Latest results of the OPERA experiment on nu-tau appearance in the CNGS neutrino beam

by N. Agafonova, A. Alexandrov, A. Anokhina, S. Aoki, A. Ariga, T. Ariga, A. Bertolin, C. Bozza, R. Brugnera, A. Buonaura, S. Buontempo, M. Chernyavskiy, A. Chukanov, L. Consiglio, N. D'Ambrosio, G. De Lellis, M. De Serio, P. del Amo Sanchez, A. Di Crescenzo, D. Di Ferdinando, N. Di Marco, S. Dmitrievsky, M. Dracos, D. Duchesneau, S. Dusini, T. Dzhatdoev, J. Ebert, A. Ereditato, J. Favier, R. A. Fini, F. Fornari, T. Fukuda, G. Galati, A. Garfagnini, V. Gentile, J. Goldberg, S. Gorbunov, Y. Gornushkin, G. Grella, A. M. Guler, C. Gustavino, C. Hagner, T. Hara, T. Hayakawa, A. Hollnagel, K. Ishiguro, A. Iuliano, K. Jakovcic, C. Jollet, C. Kamiscioglu, M. Kamiscioglu, S. H. Kim, N. Kitagawa, B. Klicek, K. Kodama, M. Komatsu, U. Kose, I. Kreslo, F. Laudisio, A. Lauria, A. Longhin, P. Loverre, M. Malenica, A. Malgin, G. Mandrioli, T. Matsuo, V. Matveev, N. Mauri, E. Medinaceli, A. Meregaglia, S. Mikado, M. Miyanishi, F. Mizutani, P. Monacelli, M. C. Montesi, K. Morishima, M. T. Muciaccia, N. Naganawa, T.

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Der Wissenschaftsfonds.





















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Thanks for your attention!