

Publishing and peer-reviewing in open access

Marie Farge

CNRS (Centre National à la Recherche Scientifique) and ENS (Ecole Normale Supérieure) Paris

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Principle

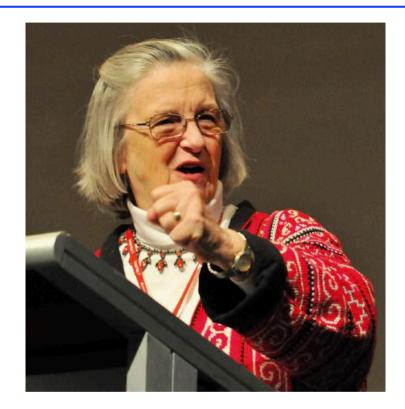
Ideas are not of the same nature as material products, since when you give an idea you do not lose it. Therefore, knowledge is not a product to be traded, but a commons to be shared, for exchange of ideas is a positive-sum game.

> Charlotte Hess and Elinor Ostrom, Understanding knowledge as a Commons, MIT Press, 2006

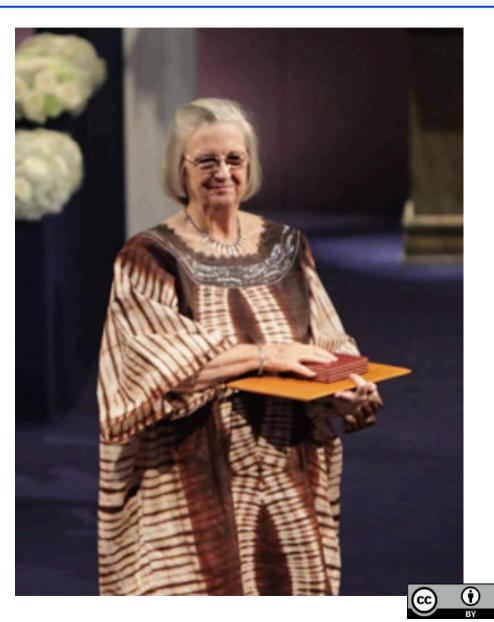
In 2009 Elinor Ostrom got the Nobel prize in economic sciences for 'her analysis of economic gouvernance, especially the commons, showing how common resources can be managed successfully by the people who use them, rather than by governments or private companies'.



Elinor Ostrom (1933-2012)



She was professor of political science at Indiana University (USA) and the only woman who has ever received the Nobel prize in economic sciences.



What publishing is for?

Research is a collaborative endeavour, in both space and time, that advances through discussions, seminars, conferences and the publication of peer-reviewed articles.

Publishing means making the research outputs publicly available. Peer reviewing means checking the content of articles by peers (to find errors, assess results' originality and improve presentation).

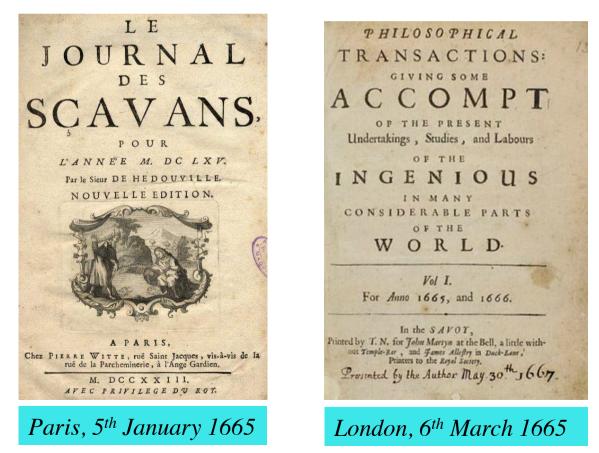
Peers are researchers in activity (not employees of publishers).

Peer-reviewing and publishing guarantee validation, reproduction, transmission and conservation of research outputs for the advancement of knowledge.



Peer-reviewed scholarly journals

The publication of research outputs in peer-reviewed journals is the backbone of the present research system.
It was founded on *January 5th 1665* for sharing ideas and results.
It is also used today for evaluating researchers and projects.





How are we peer-reviewing and publishing today?



Business model of peer-reviewed journals



Researchers acting as editors

Publishers

Researchers write articles, typeset them in final format, review those of their peers, are editors of scholarly journals.

> After papers are accepted by reviewers and editors, publishers put them online, insure their visibility, occasionally print them, and sell them.

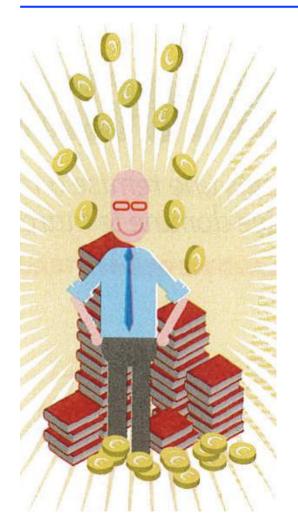
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by taxpayers

Librarians negociate subscription contracts, pay them, control access to the journals and curate collections of articles.



Publishers own articles, journals and more...



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Before publishing the accepted papers, publishers require that researchers transfer them their copyrights for free!

Publishers own intellectual property of the text, figures and data contained in articles for more than 100 years. They can thus sell articles at the prices and conditions they set, with non-disclosable contracts.

Publishers also own the scholarly journals, plus all derivatives (*e.g.*, databases), plus the peer-reviewing and publishing plaftforms, and the bibliometric data used to evaluate research projects and researchers' career

Authors must give their copyrights for free !

Journal of Plasma Physics



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Example of the copyright transfer form we signed on January 24th 2017 to publish an article online in Journal of Turbulence

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Article DOI:	10.1080/14685248.2017.1284326
Author(s):	Teluo Sakurai, Katsunori Yoshimatsu, Kai Schneider, Marie Farge, Koji Morishita, Takashi Ishihara
To publish in the Journal:	Journal of Turbulence
Journal ISSN:	1468-5248

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http://www.tandfonline.com/doi/full/10.1080/14685248.2017.1284326

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Who has access to peer-reviewed articles ?

Only researchers working in institutions and countries rich enough to afford the very costly subscriptions to scholarly journals.

Researchers working for companies or in poor institutions, teachers, students, retired researchers and all citizens who finance public research do not have access to most of the scholarly articles.

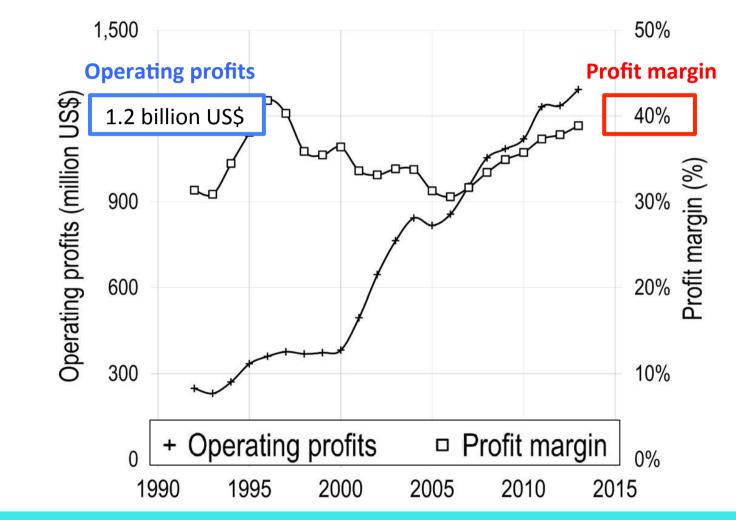
By 2000 most of the renown scholarly journals have been bought by few major publishers, whose exceptional profits rely on the work that researchers and their funding agencies offer them for free.

Publishers benefit from the digital revolution and the Web to to reduce production costs using online peer-reviewing and publishing, but keep the business model designed for printing on paper.

Today few major publishers have acquired an oligopolistic position.



Operating profits and profit margin of the publisher *Reed-Elsevier* for its Scientific, Technical and Medical (STM) division from 1990 to 2015



Vincent Larivière et al., The Oligopoly of Academic Publishers, PLOS one, 10th June 2015



Density of peer-reviewed articles per country

Number of articles divided by the number of inhabitants

http://www.worldmapper.org

1 🔶	1 🔶	1 🔶	Centre National de la Recherche Scientifique*
2 🔶	1 🔶	1 🔶	Chinese Academy of Sciences*
3 🔶	1 🔶	1 🔶	Russian Academy of Sciences*
4 🔶	1 🔶	1 🔿	Harvard University
5 🔶	2 🔶	1 🔶	Helmholtz Gemeinschaft*
6 🔶	3 🔶	2 🔶	Max Planck Gesellschaft*
7 🔶	2 🔶	1 🔶	University of Tokyo

http://www.scimagoir.com

Today, publishers want to impose the Gold Open Access model, which flips subscription costs into Article Processing Charges (APCs) that researchers pay them to publish

Gold OA is counter-productive since researchers would no more publish or their institutions get bankrupted!



Which publishing system might benefit to researchers rather than to publishers?



What do we need publishers for ?

'Since the creation of scientific journals 350 years ago, large commercial publishing houses have increased their control of the science system. While one could argue that their role of typesetting, printing, and diffusion were central in the print world, the ease with which these functions can be fulfilled in the electronic world makes one wonder: what do we need publishers for? [...] It is up to the scientific community to change the system in a similar fashion and in parallel to the open access and open science movements. Unfortunately, researchers are still dependent on one essentially symbolic function of publishers, which is to allocate academic capital, thereby explaining why the scientific community is so dependent on *The Most Profitable* Obsolete Technology in History'

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Vincent Larivière et al., The Oligopoly of Academic Publishers, PLOS one, 10th June 2015

The Cost of Knowledge, 2012

Tim Gowers and 33 mathematician colleagues called to boycott *Elsevier* and thus stopped the *Research Works Act*, a bill to the US Congress *Elsevier* was lobbying for.



Sir Tim Gowers, Cambridge University, Fields medal 1998

16556 Researchers Taking a Stand. See the list

Academics have protested against Elsevier's business practices for years with little effect. These are some of their objections:

- They charge exorbitantly high prices for subscriptions to individual journals.
- 2. In the light of these high prices, the only realistic option for many libraries is to agree to buy very large "bundles", which will include many journals that those libraries do not actually want. Elsevier thus makes huge profits by exploiting the fact that some of their journals are essential.
- They support measures such as SOPA, PIPA and the Research Works Act, that aim to restrict the free exchange of information.

http://www.thecostofknowledge.com/



Researchers want to recover control

`Neither author nor reader should have to pay to publish and a journal should not belong to its publisher but to its editorial board. The publishing of peer-reviewed articles should be done using public infrastructures from where articles are accessible online for free.'

> Marie Farge, Note for the French Minister of Research, June 29th 2012 http://openscience.ens.fr/MARIE_FARGE/



CoK have proposed the alternative model *Diamond Open Access*

Diamond Sutra, the earliest complete survival of a dated printed book, China, 11th May 868

British Library, London



Diamond Open Access

1

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2

Editors of a peer-reviewed journal collectively own its title and assets, since they are in charge of peer-reviewing the submitted articles (editors and referees do this for free, as part of their academic duty).

3

Publishers no more own the peer-reviewed journals but provide services their editors (that select them on a competitive basis).



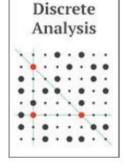
Examples of Diamond OA journals

IPOL Journal · Image Processing On Line

//www.ipol.im ISSN : 2105-1232 DOI : 10.5201/ipol

Founded in 2010 by Jean-Michel Morel, IPOL has 41 editors. It is financed by CNES, ERC and 13 public institutions from 5 countries. Each article contains the text, the algorithm and the source code, which all are peer reviewed. The journal platform also provides online demonstration facility and an archive of experiments. IPOL thus ensures open science and reproducible research.

2



http://discreteanalysisjournal.com ISSN: 2397-3129

Founded in 2015 by Tim Gowers, DA has 12 editors. It is an overlay journal on the open repository arXiv. It is financed by Cambridge University (10\$/submission).



We need public publishing platforms

Funding agencies should provide, for free to researchers, publicly-owned platforms, developed using open source software, for peer-reviewing, publishing and archiving articles and data, with the help of librarians and of publishers (as subcontractors).

Anyone from anywhere would have free (gratis and libre) access to peer-reviewed publications (*e.g.*, articles, data, codes, videos) without researchers having to pay to publish their results.

Funding agencies would thus control the quality of peer-reviewing, by selecting the journals having good practices and reputable editors.

Such publishing platforms would give the chance to researchers to experiment new ways of publishing (*e.g.*, open peer-reviewing).



Examples of public publishing platforms

Brasil África do Sul Argentina Brasil Chile <u>Colômbia</u> Costa Rica Cuba Espanha México Peru Portugal Venezuela Bolívia

Paraguai

Jruguai



Created in 1999, it publishes 1249 journals in open access, financed by public agencies from Brazil (FAPESP, CNPq, BIREME) and from 15 other countries. CENTRE POUR L'ÉDITION ÉLECTRONIQUE OUVERTE CENTRE FOR OPEN ELECTRONIC PUBLISHING

> Created in 1999, it publishes 451 journals in open access, financed by public agencies from France (CNRS, EHESS, BSN, Aix-Marseille and Avignon universities).



How to insure a smooth transition from printing on paper to online publishing?



Green Open Access

Today, publishers own journals, together with bibliometry data, that they use as marketing tools to control market, and impose Gold OA to keep control of prices (*e.g.*, APCs), which leads to the creation of predatory journals.

Today, researchers want to preserve journals useful to them (those having good reputation and excellent practices), therefore they submit their articles to those they prefer, and deposit the « author's version » in a public open repository.



Green OA is the wisest solution for a smooth transition to OA, since it preserves academic freedom and prepare Diamond OA.

http://openscience.ens.fr/MARIE_FARGE



Dissemin, a platform to boost Green OA

In September 2014 Antonin Delpeuch created <u>http://dissem.in</u> (he was then student in computer sciences at ENS Paris), which is collectively developed in open source.



'Spot your own paywalled papers. Liberate them in one click!'



The team CAPSH / Dissemin

http://dissem.in is supported by the non profit association CAPSH (Committee for the Accessibility of Publications in Sciences and Humanities) created on *September 5th 2015* by :

Antonin Delpeuch

Graduate student, Computer Science École Normale Supérieure France

Creator and main developer of the platform *Dissemin*

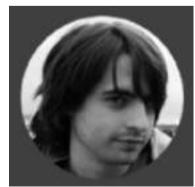


"We need to take a stand against more traditional publishers"



Europe's Open Access Champion 2016





Antoine Amarilli



Pablo Rauzy



Marie Farge



Thomas Bourgeat

Dissemin lists the articles of any researcher

Welcome to dissemin

Dissemin detects papers behind pay-walls and invites their authors to upload them in one click to an open repository.

Try any author name

Green open access

Many researchers do not use their right to make their papers freely available online, in addition to the paywalled version offered by traditional publishers.

This forces libraries to buy overpriced electronic subscriptions to journals, when they can afford them at all.



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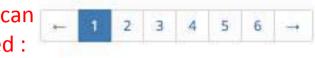


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 Seung-Bu Park, Pierre Gentine, Kai Schneider, Marie Farge
 2016

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 American Meteorological Society, Journal of the Atmospheric Sciences, 2016.



Frank G. jacobitz, Kai Schneider, Wouter J. T. Bos, Marie Farge

Structure of sheared and rotating turbulence: Multiscale statistics of Legrangian and Eulerian accelerations and passive scalar dynamics

▲ Download American Physical Society, Physical Review E, 1(93), 2016.



Marie Farge, Kai Schneider

2015

Wavelet transforms and their applications to MHD and plasma turbulence: a review



ad Cambridge University Press (CUP), Journal of Plasma Physics, 06(81), 2015.



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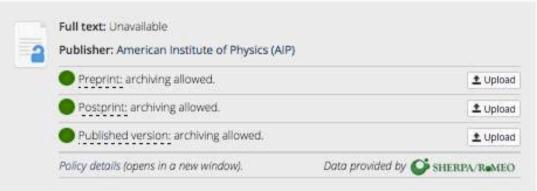




Other document

Coherent vortex extraction in three-dimensional homogeneous turbulence: Comparison between CVS-wavelet and POD-Fourier decompositions

Journal article by Marie Farge, Kai Schneider, Giulio Pellegrino, Alan A. Wray, Robert S. Rogalio



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Abstract

The coherent vortex simulation (CVS) decomposes each realization of a turbulent flow into two orthogonal components: An organized coherent flow and a random incoherent flow. They both contribute to all scales in the inertial range, but exhibit different statistical behaviors. The CVS decomposition is based on the nonlinear filtering of the vorticity field, projected onto an orthonormal wavelet basis made of compactly supported functions, and the computation of the induced velocity field using Biot-Savart's relation. We apply it to a three-dimensional homogeneous isotropic turbulent flow with a Taylor microscale Reynolds number R λ =168, computed by direct numerical simulation at resolution N=256 3 . Only 2.9%N wavelet modes correspond to the coherent flow made of vortex tubes, which contribute 99% of energy and 79% of enstrophy, and exhibit the same k -5/3 energy spectrum as the total flow. The remaining 97.1%N wavelet modes correspond to a incoherent random flow which is structureless, has an equipartition energy spectrum, and a Gaussian velocity probability distribution function (PDF). For the same flow and the same compression rate, the proper orthogonal decomposition (POD), which in this statistically homogeneous case degenerates into the Fourier basis, decomposes each flow realization into large scale and small scale flows, in a way similar to large eddy simulation(LES) filtering. It is shown that the large scale flow thus obtained does not extract the vortex tubes equally well as the coherent flow resulting from the CVS decomposition. Moreover, the small scale flow still contains coherent structures, and its velocity PDF is stretched exponential, while the incoherent flow is structureless, decorrelated, and its velocity PDF is Gaussian. Thus, modeling the effect of the incoherent flow discarded by CVS-wavelet shall be easier than modeling the effect of the small scale flow discarded by POD-Fourier or LES.

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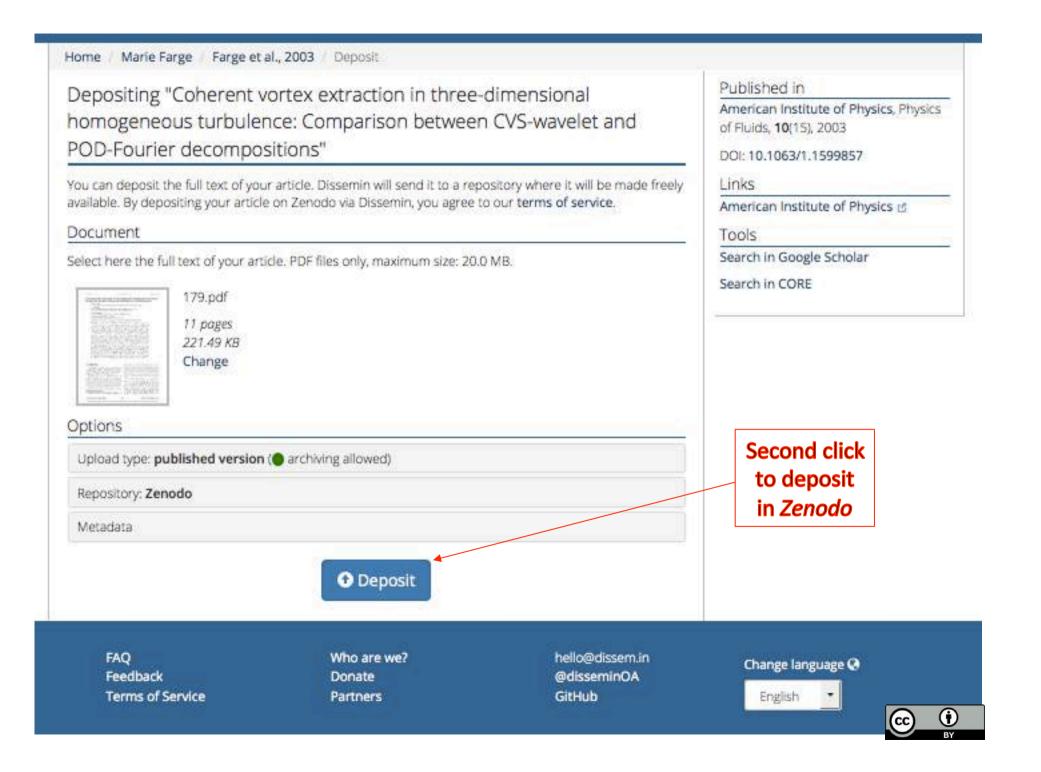
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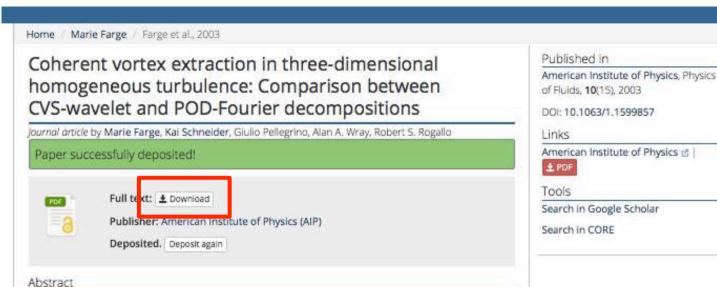
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The coherent vortex simulation (CVS) decomposes each realization of a turbulent flow into two orthogonal components: An organized coherent flow and a random incoherent flow. They both contribute to all scales in the inertial range, but exhibit different statistical behaviors. The CVS decomposition is based on the nonlinear filtering of the vorticity field, projected onto an orthonormal wavelet basis made of compactly supported functions, and the computation of the induced velocity field using Biot-Savart's relation. We apply it to a three-dimensional homogeneous isotropic turbulent flow with a Taylor microscale Reynolds number R λ =168, computed by direct numerical simulation at resolution N=256 3. Only 2.9%N wavelet modes correspond to the coherent flow made of vortex tubes, which contribute 99% of energy and 79% of enstrophy, and exhibit the same k -5/3 energy spectrum as the total flow. The remaining 97.1%N wavelet modes correspond to a incoherent random flow which is structureless, has an equipartition energy spectrum, and a Gaussian velocity probability distribution function (PDF). For the same flow and the same compression rate, the proper orthogonal decomposition (POD), which in this statistically homogeneous case degenerates into the Fourier basis, decomposes each flow realization into large scale and small scale flows, in a way similar to large eddy simulation(LES) filtering. It is shown that the large scale flow thus obtained does not extract the vortex tubes equally well as the coherent flow resulting from the CVS decomposition. Moreover, the small scale flow still contains coherent structures, and its velocity PDF is stretched exponential, while the incoherent flow is structureless, decorrelated, and its velocity PDF is Gaussian. Thus, modeling the effect of the incoherent flow discarded by CVS-wavelet shall be easier than modeling the effect of the small scale flow discarded by POD-Fourier or LES.

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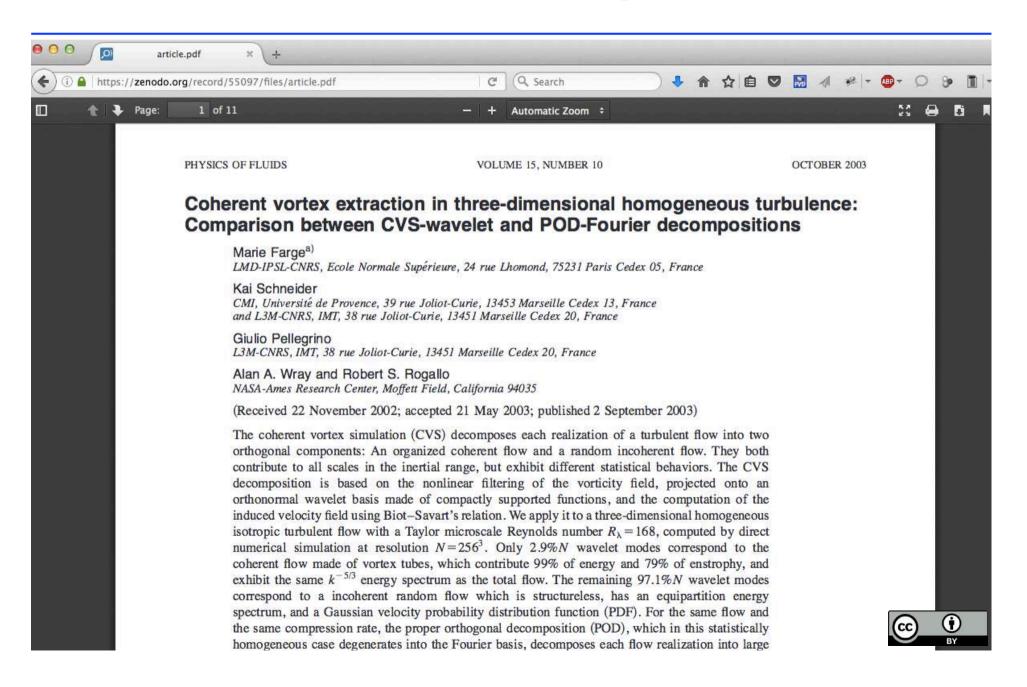
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To follow the development of Dissemin

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G

L

François Gay-Balmaz (51 papers) Yves Gueguen (52 papers) Lionel Guez (9 papers) Guillaume Lapeyre (26 papers) Soumaya Latour (5 papers) Bernard Legras (53 papers) Francois Lott (47 papers)

М

Patrick Meunier (20 papers)

Ρ

Yves Pinquier (2 papers) Jean-Pierre Pozzi (42 papers) Manuel Pubellier (10 papers)

R

Alexis Rigo (27 papers) Jean-Noel Rouzaud (93 papers)

S

Alexandre Schubnel (28 papers) Laure-Anne Seve-Martinez (0 papers) Adriana Sima (9 papers) Sabrina Speich (58 papers)

Т

Hector Teitelbaum (6 papers)

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Bruce Velde (78 papers) Christophe Vigny (40 papers)

Z

Claudia Zanetel (0 papers) Vladimir Zeitlin (27 papers)



http://dissem.in/institution/1/



Conclusion

Today investments, for producing and peer-reviewing articles, are public but ownership of journals, peer-reviewing reports, platforms (for peer-reviewing, publishing, bibliometry) and profits (from subscriptions, APCs and data) are private.

Publishers should become service providers to publicly funded and publicly owned publishing platforms, without owning anymore articles, journals, platforms (for peer-reviewing, publishing, bibliometry) and data.

Funding agencies should provide public platforms to researchers for peer-reviewing, publishing and archiving research outputs. Intellectual property laws (copyright/copyleft) should be improved to guarantee that research outputs remain public and open. We need those tools to develop knowlegde as a commons.



'Scholarly publishing and peer-reviewing in open access', Marie Farge, 2017 in 'Europe's Future: Open Science, Open Innovation, and Open to the World', European Commission, DG Research, Science and Innovation, April 2017

> *http://openscience.ens.fr/MARIE_FARGE http://wavelets.ens.fr*

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