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 ctroupin

GHER



*What about making our  
research (more) reproducible?*

FOCUS Young Scientists Day



Pauli, Wolfgang

1900-1958

**"NO ME IMPORTA QUE USTED PIENSE  
DESPACIO, SINO QUE PUBLIQUE MÁS  
RÁPIDO DE LO QUE PIENSA"**

*I don't mind your thinking slowly;  
I mind your publishing  
faster than you think*

W. Pauli  
(1900–1958)



Publish  
your results

(but not in any journal)

# Predatory Journals and Publishers



# Predatory Journals and Publishers

## **Predatory open-access publishing**

An **exploitative** open-access academic publishing **business model** that involves charging publication fees to authors without providing the editorial and publishing services associated with legitimate journals (open access or not).

## Predatory Journals and Publishers

$$\text{\$} | \text{\text{€}} | \text{VISA} \Rightarrow \text{PDF} \quad (1)$$

# How to recognize them?

- 1 Journal name (very) similar to existing
- 2 Strange logos in everypage
- 3 Typos
- 4 (Too) short revision time
- 5 More typos
- 6 ...

# How to recognize them?

Beall's list:

<https://beallslist.weebly.com/>

# Bonus: when to submit a paper?



ELSEVIER

## Physica A: Statistical Mechanics and its Applications

Volume 456, 15 August 2016, Pages 197-203



### Day of the week effect in paper submission/acceptance/rejection to/in/by peer review journals

Marcel Ausloos <sup>a, b, c</sup>  , Olgica Nedic <sup>d</sup> , Aleksandar Dekanski <sup>e</sup> 

 [Show more](#)

<https://doi.org/10.1016/j.physa.2016.03.032>

[Get rights and content](#)

## Bonus: when to submit a paper?

*"...papers are more often submitted on **Wednesday**; however, the relative number of going to be accepted papers is larger if these are submitted on **Tuesday**. On the other hand, weekend days (**Saturday and Sunday**) are not the best days to finalize and submit manuscripts."*



Properly  
identify the  
authors



John Allen

# Who is (my) John Allen?

- ✗ *John Terrence Allen* is an Australian atmospheric scientist and leading contributor on severe thunderstorm and tornado environments
- ✗ *John Polk Allen* is a systems ecologist, engineer, metallurgist, adventurer, and writer
- ✗ *John Robert Lawrence Allen* is a British geologist, and professor emeritus at Reading University.
- ✓ *John Allen* is a Senior Research Scientist and part-time Senior Lecturer in the School of Earth and Environmental Sciences at the University of Portsmouth.
- ✗ *John Stuart Allen* was an American astronomer, university professor and university president.
- ✓ *John S. Allen* is a Professor Emeritus in Physics of Oceans and Atmospheres.

# Solution: academic "social" media



Source: [Academicons](#)

# A reasonable choice: ORCID

<https://orcid.org/>

Open Researcher and Contributor ID



The screenshot shows the ORCID website homepage. At the top, there is a search bar and a language dropdown set to 'English'. Below the search bar is the ORCID logo and the tagline 'Connecting Research and Researchers'. A navigation menu contains links for 'FOR RESEARCHERS', 'FOR ORGANIZATIONS', 'ABOUT', 'HELP', and 'SIGN IN'. A counter displays '4,682,649 ORCID iDs and counting. See more...'. The main content area features a large heading 'DISTINGUISH YOURSELF IN THREE EASY STEPS' followed by a paragraph explaining the benefits of ORCID. Below this are three numbered steps: 1. REGISTER, 2. ADD YOUR INFO, and 3. USE YOUR ORCID ID, each with a brief description. On the right side, there is a vertical sidebar with a large 'iD' logo and a green arrow pointing down, followed by a 'LATEST NEWS' section listing three recent news items with their dates and titles.

Search English

ORCID  
Connecting Research and Researchers

FOR RESEARCHERS FOR ORGANIZATIONS ABOUT HELP SIGN IN

4,682,649 ORCID iDs and counting. See more...

## DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. [Find out more](#)

- 1 REGISTER** Get your unique ORCID Identifier [Register now!](#)  
Registration takes 30 seconds.
- 2 ADD YOUR INFO** Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).
- 3 USE YOUR ORCID ID** Include your ORCID Identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.

**LATEST NEWS**

**Wed, 18 Apr 2018**  
ORCID and Data Privacy in Germany

**Mon, 16 Apr 2018**  
Recognizing our community of contributors

**Thu, 12 Apr 2018**  
Collect & Connect: Four New Integrations You Need To Know About!



ORCID:

0000-0001-7357-6623

# Bonus: use your ORCID for logins

## Ocean Dynamics

Please Enter the Following

[Insert Special Character](#)

Username:

Password:

[Author Login](#)

[Reviewer Login](#)

[Editor Login](#)

[Publisher Login](#)

Or Login via:



[What is ORCID?](#)

[Send Login Details](#)

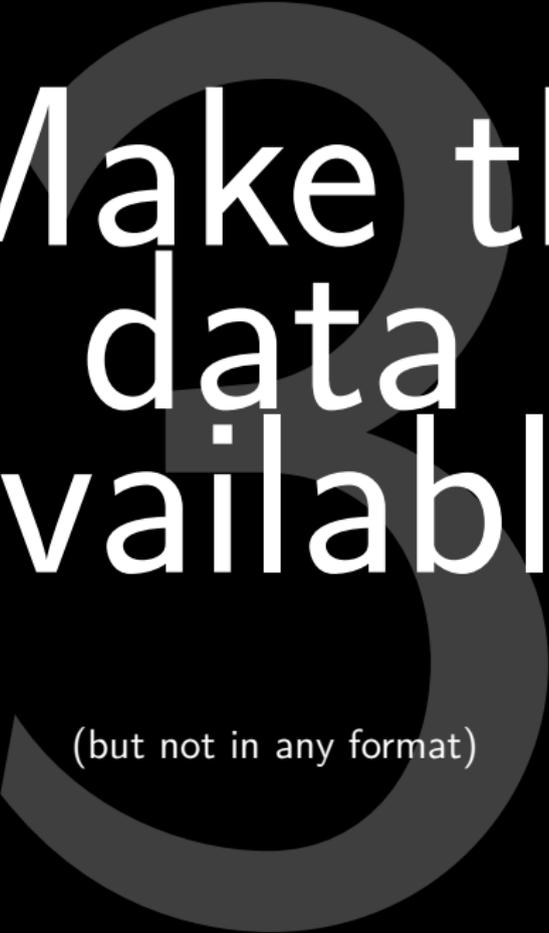
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Make the  
data  
available

(but not in any format)



MADE IN

THIS CAN

NCAR # 405

STORM SURGE  
SIMULATION

AGF/F16

135MM

KODAK CO

# Solution 1: use the national and international data portals

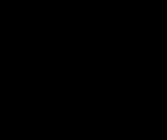


<https://www.seadatanet.org/>

<http://www.emodnet.eu/>

<http://marine.copernicus.eu/>

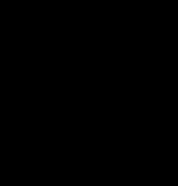
[https://www.nodc.noaa.gov/OC5/WOD/pr\\_wod.html](https://www.nodc.noaa.gov/OC5/WOD/pr_wod.html)



# Solution 1: use the national and international data portals



"Collect once, use many times"



Solution 1: use the national and international data portals



# Solution 2: upload the data on data sharing platforms

<https://zenodo.org/>

April 24, 2018 (v1) Dataset Open Access View

## Airgun-ocean bottom seismometer survey dataset

 Azuma, Ryosuke;  Hino, Ryota;  Ohta, Yusaku;  Ito, Yoshihiro;  Mochizuki, Kimihiro;  Uehara, Kenji;  Murai, Yoshio;  Sato, Toshinori;  Takanami, Tetsuo;  Shinohara, Masanao;  Kanazawa, Toshihiko

These data are the seismic waveform recordsections and the P-wave velocity model obtained by Azuma et al. (JGR, 2018), collected through an airgun-ocean bottom seismometer (OBS) survey. The recordsections of 29 OBS are 'RAW data' with no waveform procedure and are formatted in SEG-Y. Length of...

Uploaded on April 24, 2018

April 16, 2018 (vv1.5.2) Software Open Access View

## microPIECE (microRNA pipeline enhanced by CLIP experiments)

 Amsel, Daniel;  Billion, André;  Vilcinskas, Andreas;  Förster, Frank

The microPIECE (microRNA pipeline enhanced by CLIP experiments) takes the AGO-CLIP data from a speciesA and transfers it to a speciesB. Given a set of miRNAs from speciesB it then predicts their targets on the transferred CLIP regions. The archive of the repository was generated using the...

Uploaded on April 16, 2018

*4 more version(s) exist for this record*

April 15, 2018 (vv1.1.0rc1) Software Open Access View

## scipy/scipy: Scipy 1.1.0rc1

Pauli Virtanen; Ralf Gommers; Evgeni Burovski; Travis E. Oliphant; David Cournapeau; Warren Weckesser; alexbric; Pearu Peterson; endolith; Stefan van der Walt; Nikolay Mayorov; Josh Wilson; Denis Laxalde; Matthew Brett; Jarrod Millman; Lars; eric-jones; Andrew Nelson; Robert Kern; Eric Moore; Tim Leslie; Josef Perktold; CJ Carey; Yu Feng; Jake Vanderplas; Matt Haberland; cowlicks; Eric Larson; Ilhan Polat; Tyler Reddy

Share the  
code or  
program

even if it's not perfect  
(yet)

# Solution: repository management services



..... <https://github.com/>



..... <https://gitlab.com/>



..... <https://bitbucket.org/>



..... <https://sourceforge.net/>



..... <https://coding.net/>

# Solution: repository management services

# 404

This is not the  
web page you  
are looking for.



Find code, projects, and people on GitHub:

Search

[Contact Support](#) — [GitHub Status](#) — [@githubstatus](#)



# Solution: repository management services

<https://github.com/gher-ulg>

This organization Search Pull requests Issues Marketplace Explore

## GHER

The GHER is a research group of the University of Liège. It is focused on marine and environmental study and modelling.

Sart Tilman, Liège, Belgium <http://modb.ocs.ulg.ac.be/mediawiki/index...>

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### DIVA

DIVA (Data-Interpolating Variational Analysis) is a software tool dedicated to the spatial interpolation of in situ data in oceanography.

analysis interpolation oceanography dataanalysis ocean-sciences

Fortran ★ 4 🗄 2 Updated 5 minutes ago

### divand.jl

divand performs an n-dimensional variational analysis of arbitrarily located observations

interpolation julia toolbox oceanography data-analysis

Julia ★ 3 🗄 GPL-2.0 Updated 3 hours ago

### DIVA-Workshops

Code, data and instructions for the Diva workshops

#### Top languages

Jupyter Notebook Julia Fortran Python PostScript

#### Most used topics

oceanography ocean-sciences data-analysis interpolation remote-sensing

#### People

6 >

# Solution: repository management services

## Colateral benefits

- 1 Collaborative work
- 2 No email exchanges
- 3 Easy bug report
- 4 Increased visibility
- 5 Backup 



Publish the  
code releases

Solution: use the Zenodo platform

# Solution: use the Zenodo platform

zenodo

– <http://zenodo.org/>

A platform to upload papers, datasets, software codes...  
and to get permanent identifiers

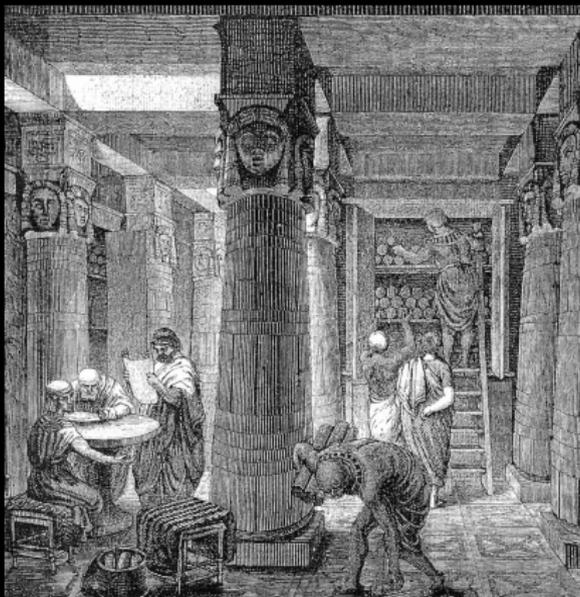
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# Solution: use the Zenodo platform

After *Zenodotus*

1st superintendent of the Library of Alexandria and 1st critical editor of Homer



By O. Von Corven - Tolzmann, Don Heinrich, Alfred Hessel and Reuben Peiss. *The Memory of Mankind*. New Castle, DE: Oak Knoll Press, 2001, Public Domain, <https://commons.wikimedia.org/w/index.php?curid=2307486>

April 24, 2018 (v1)

Dataset

Open Access

View

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 Azuma, Ryosuke; Hino, Ryota; Ohta, Yusaku; Ito, Yoshihiro; Mochizuki, Kimihiro; Uehara, Kenji; Murai, Yoshio; Sato, Toshinori; Takanami, Tetsuo; Shinohara, Masanao; Kanazawa, Toshihiko

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Uploaded on April 24, 2018

April 16, 2018 (vv1.5.2)

Software

Open Access

View

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July 31, 2017

Software

Open Access

Edit

New version

# gher-ulg/DIVA: v4.7.1

Sylvain Watelet; Charles Troupin; Jean-Marie Beckers; Alexander Barth; Mohamed Ouberdoes

## New features

- Major feature : bottom analysis is now possible. The distance is counted from the bottom ocean, derived from the interpolation of the topography topo\_fine.grd. This topography can be different (and finer) than topo.grd used for the creation of contours.
- Major feature : conversion of EMODnet bathymetry to Diva-readable format with the tool emobath2ghertopo.
- Major feature : Variable correlation length depending on the gradient of the depth. Advection field adapted to this relative length field. Suited for bottom analyses. Updated programs : diva3Ddat, divarivargraddepth, rivargraddepth.f90, divadoall, divaUVtopo, UVtopogen.f, divadocommit.
  - Acknowledgements field in 3D and 4D netCDFs.
  - New compilation option DIVAHUGEMEMORY. Enabled by default in divacompile\_options, it allows the use of a finer mesh, and/or a larger domain. Particularly useful with variables characterized by low correlation lengths.

## Bug fixes

- divacutNCDF : correction on climatology bounds + dealing with very big obsid vector
- divacompile\_options : new tests on nc-config, due to recent change in its behaviour
- dv3Dreadnc.F : warning if dimensions are incoherent between GridInfo.dat and the netcdf file
- divadoall, divadonCDF, divadonCYR : corrected handling of 3DNCinfo and 3DNClist files so that recreating a new 4D NC file is much easier
- divadoxml : removed because deprecated (use divadoxml-gui instead)

## Other

Update of the user guide

Preview

Available in



## Publication date:

July 31, 2017

## DOI:

DOI: 10.5281/zenodo.836727

## Keyword(s):

Data-interpolation Ocean Sciences Oceanography  
Variational method SeaDataNet EMODnet

## Related identifiers:

Supplement to:

<https://github.com/gher-ulg/DIVA/tree/v4.7.1>

## License (for files):

[Other \(Open\)](#)

diva1:Solress  
diva1:MNnn

2.8 KB  
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Files (2.6 MB)

Name

Size

[gher-ulg/DIVA-v4.7.1.zip](#)

2.6 MB

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md5:cf9c3a19d2744a95f7bfa4a311b7729f

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## Cite as

Sylvain Watelet, Charles Troupin, Jean-Marie Beckers, Alexander Barth, & Mohamed Ouberdous. (2017, July 31). gher-ulg/DIVA: v4.7.1 (Version v4.7.1). Zenodo. <http://doi.org/10.5281/zenodo.836727>

Start typing a citation style...

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# Summary

- 1 Publish your results
- 2 Properly identify the authors
- 3 Make the data available
- 4 Share the code or program
- 5 Publish the code releases

