Come condividere (di più) quello che facciamo

Cosa e dove condividere

Prodotti della scienza

- Research article
  - Pre-print
  - Post-print
  - final
- Dataset
- Software

pre/post-print repositories

- aRxiv: https://arxiv.org/
- Open Science Framewok preprints: https://osf.io/preprints/
- EarthArXiv: https://eartharxiv.org/
- Zenodo: https://zenodo.org/
- Figshare: https://figshare.com/

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Data repositories

Archivio online contenente dati solitamente associati a lavori scientifici di studiosi.

Può essere un data repository generico o un repository di dominio/disciplina:

- Zenodo (https://zenodo.org/)
- Pangaea (https://www.pangaea.de/)
- Data Dryad (https://www.datadryad.org/)
- Figshare (https://figshare.com/)
- Dataverse repositories (https://dataverse.org/)

Registry of Research data Repositories: https://www.re3data.org/

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Perché pubblicare datasets?

WHY TO PUBLISH YOUR DATASET?


Ten Simple Rules for the Care and Feeding of Scientific Data

Alyssa Goodman[1], Alberto Pepe[2]*, Alexander W. Blocker[3], Christine L. Borgman[4], Kyle Cranmer[5], Merce Crosas[6], Rosanne Di Stefano[3], Yolanda Gil[7], Paul Groth[8], Margaret Hedstrom[9], David W. Hogg[5], Vinay Kashyap[3], Ashish Mahabal[1], Aneta Siemiginowska[3], Aleksandra Slavkovic[9]

1. **Love Your Data, and Help Others Love It, Too**
2. Share Your Data Online, with a Permanent Identifier
3. **Conduct Science with a Particular Level of Reuse in Mind**
4. Publish Workflow as Context
5. Link Your Data to Your Publications as Often as Possible
6. **Publish Your Code (Even the Small Bits)**
7. **State How You Want to Get Credit**
8. Foster and Use Data Repositories
9. **Reward Colleagues Who Share Their Data Properly**
10. Be a Booster for Data Science

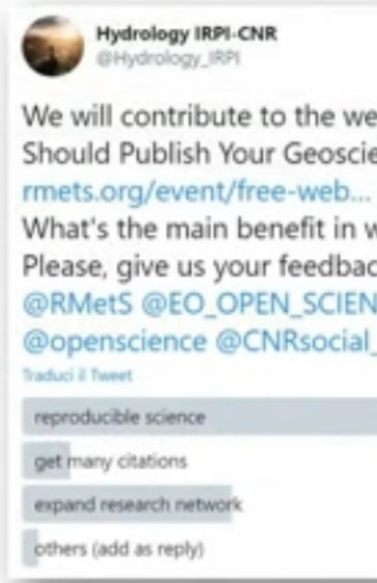
Assegnare un DOI

WHAT ARE THE BENEFITS IN WRITING A DATA PAPER?

- **contribute to reproducible science**
- get (potentially) many citations - provide citable peer review credit/self-promotion
- expand the research network

Suggestions from Twitter

- allow an easier and more aware/solid reuse of the dataset
- **give credit** to all those associated in all aspects of the dataset (collection, management, elaboration)
- apply open science and FAIR principles



Luca Brocca, "The Basics and Benefits of Writing a Data Paper" presented at the webinar "How and Why You Should Publish Your Geoscience Dataset", 17 November 2020. Online: Webpage; YouTube video.

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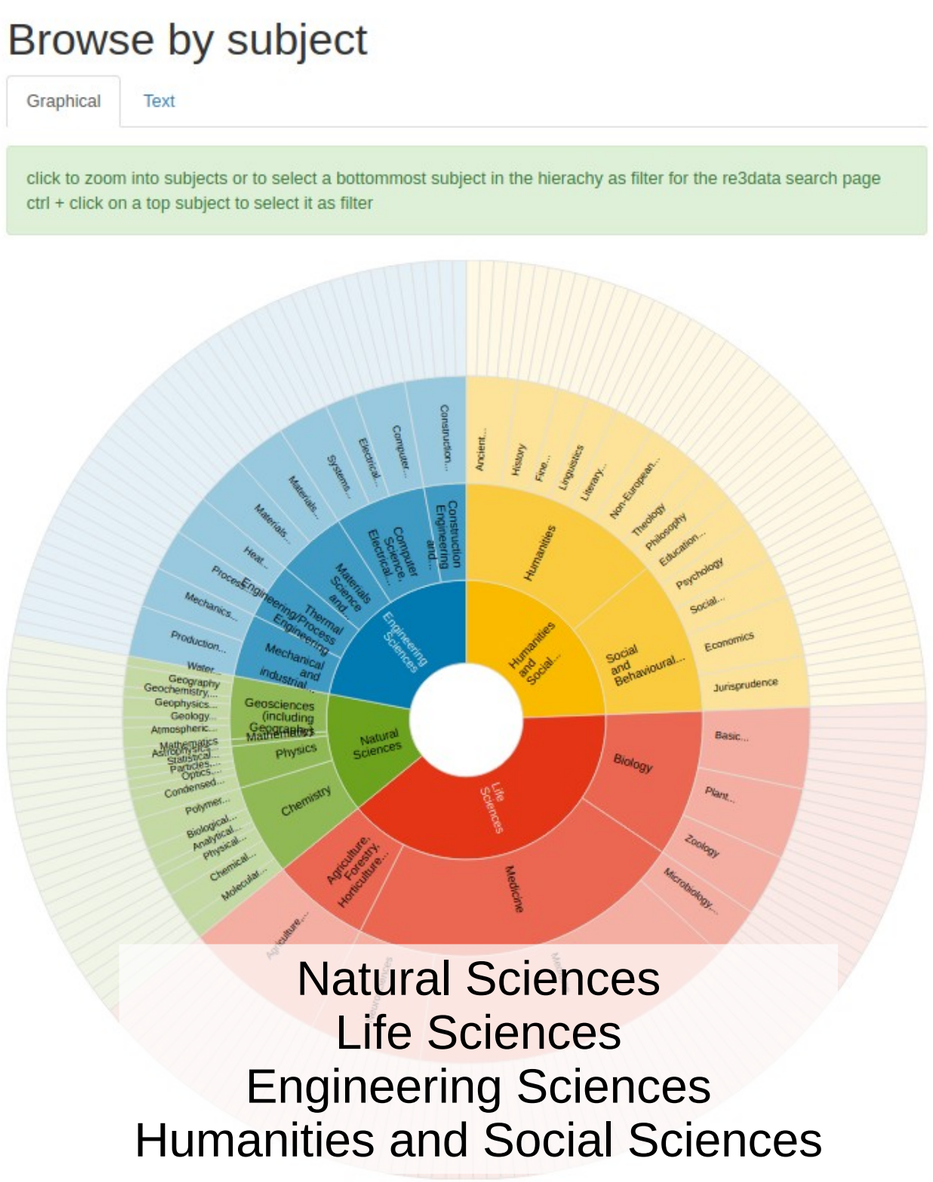
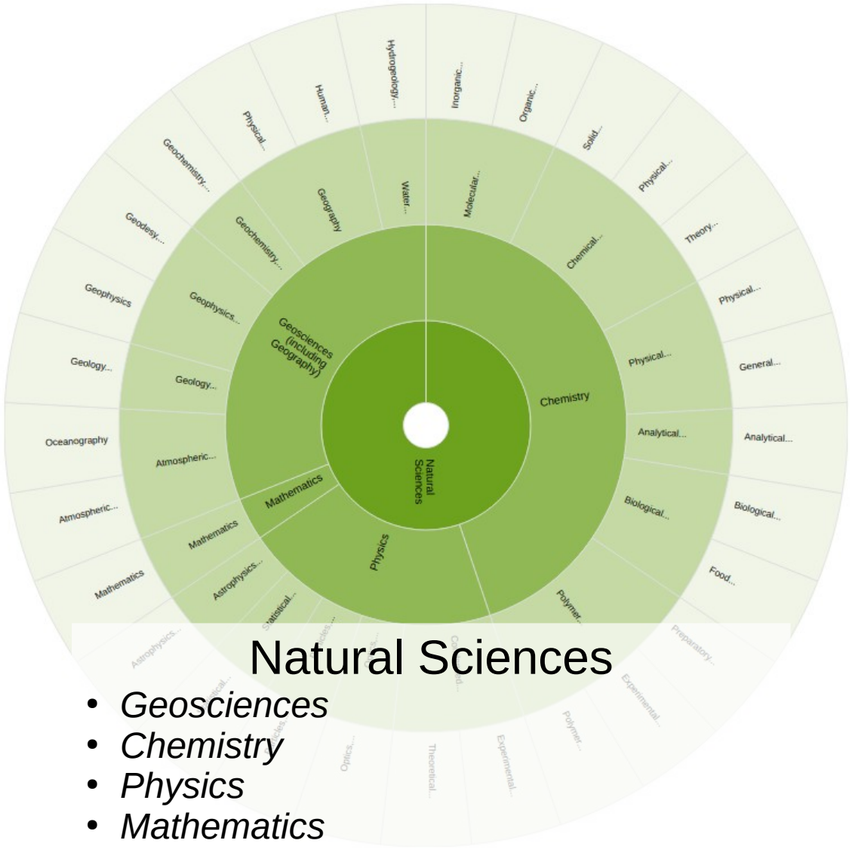


Natural Sciences
Life Sciences
Engineering Sciences
Humanities and Social Sciences



Natural Sciences

- *Geosciences*
- *Chemistry*
- *Physics*
- *Mathematics*

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Additional information

Open access to data

Terms of use and licences available

Use of DOIs

Certified or Support standards

Policy provided

Repository details

PANGAEA

General | Institutions | Terms | Standards

Name of repository	**PANGAEA**
Additional name(s)	Data Publisher for Earth and Environmental Science
Repository URL	https://www.pangaea.de/
Subject(s)	Life Sciences; Geochemistry, Mineralogy and Crystallography; Geophysics and Geodesy; Geology and Palaeontology; Natural Sciences; Geosciences (including Geography); Atmospheric Science and Oceanography; Biology; Geochemistry, Mineralogy and Crystallography; Geophysics; Geology and Palaeontology; Oceanography
Description	The information system PANGAEA is operated as an Open Access library aimed at archiving, publishing and distributing georeferenced data from earth system research. The system guarantees long-term availability of its content through a commitment of the operating institutions.
Contact	https://www.pangaea.de/contact/
Content type(s)	Audiovisual data; Archived data; Plain text; Images; Standard office documents; Source code
Certificates and Standards	CoreTrustSeal
Keyword(s)	biology; environmental science; earth science; agriculture; fisheries; cryosphere; land surface; biosphere; ecology; atmosphere; paleontology; lithosphere
Persistent identifier(s) of the repository	FAIRsharing_doi:10.25504/FAIRsharing.6yw6cp
Repository type(s)	disciplinary
Mission statement for designated community	https://www.pangaea.de/about/
Research data repository language(s)	eng
Data and/or service provider	dataProvider

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Data paper

- Un data paper descrive un dataset, fornendo dettagli sulla sua raccolta, processamento, software usati e formati file, senza la richiesta di analisi e conclusioni basati sui dati.
- Data descriptors: descrizione dei dataset della ricerca, inclusi i metodi usati per raccogliere i dati e le analisi tecniche che supportano la qualità delle misure. I Data Descriptors hanno l'**obiettivo di aiutare altri ricercatori a riusare i dati, piuttosto che testare ipotesi o presentare nuove interpretazioni, metodi o analisi approfondite**.

TABLE 3. Data paper names.

Name
Data article
Data descriptor
Data in brief
Data note
Data original article
Data paper
Database article
Database paper
Dataset paper
Genome database

Candela, L., Castelli, D., Manghi, P. & Tani, A. Data journals: A survey. J Assn Inf Sci Tec 66, 1747–1762 (2015). https://doi.org/10.1002/asi.23358

Data Journals

	IF
• Earth System Science Data (ESSD)	9.197
– https://www.earth-system-science-data.net/	
• Scientific Data (Nature):	5.541
– https://www.nature.com/sdata/	
• Data in brief (Elsevier)	
– https://www.journals.elsevier.com/data-in-brief/	
• Data (MDPI):	
– https://www.mdpi.com/journal/data	
• Biodiversity Data Journal:	1.331
– https://bdj.pensoft.net/	

Earth System Science Data
The Data Publishing Journal

SCIENTIFIC DATA

Data in Brief
Open Access

data

A peer-reviewed open-access journal
Biodiversity Data Journal
Making your data count! ISSN 1314-2828 (online)

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Software papers/journals

GitHub

Descrivono software di ricerca con alta potenzialità di riuso. Coprono vari aspetti relativi alla creazione, mantenimento e valutazione di software di ricerca open source.

IF

- Journal of Open Research Software:
  - https://openresearchsoftware.metajnl.com/
- PeerJ Computer Science: 3.091
  - https://peerj.com/computer-science/
- SoftwareX (Elsevier)
  - https://www.journals.elsevier.com/softwarex
- Software Impacts (Elsevier)
  - https://www.journals.elsevier.com/software-impacts
- The Journal of Open Source Software
  - https://joss.theoj.org/

Journal of open research software

PeerJ Computer Science

SoftwareX

zenodo

The Journal of Open Source Software

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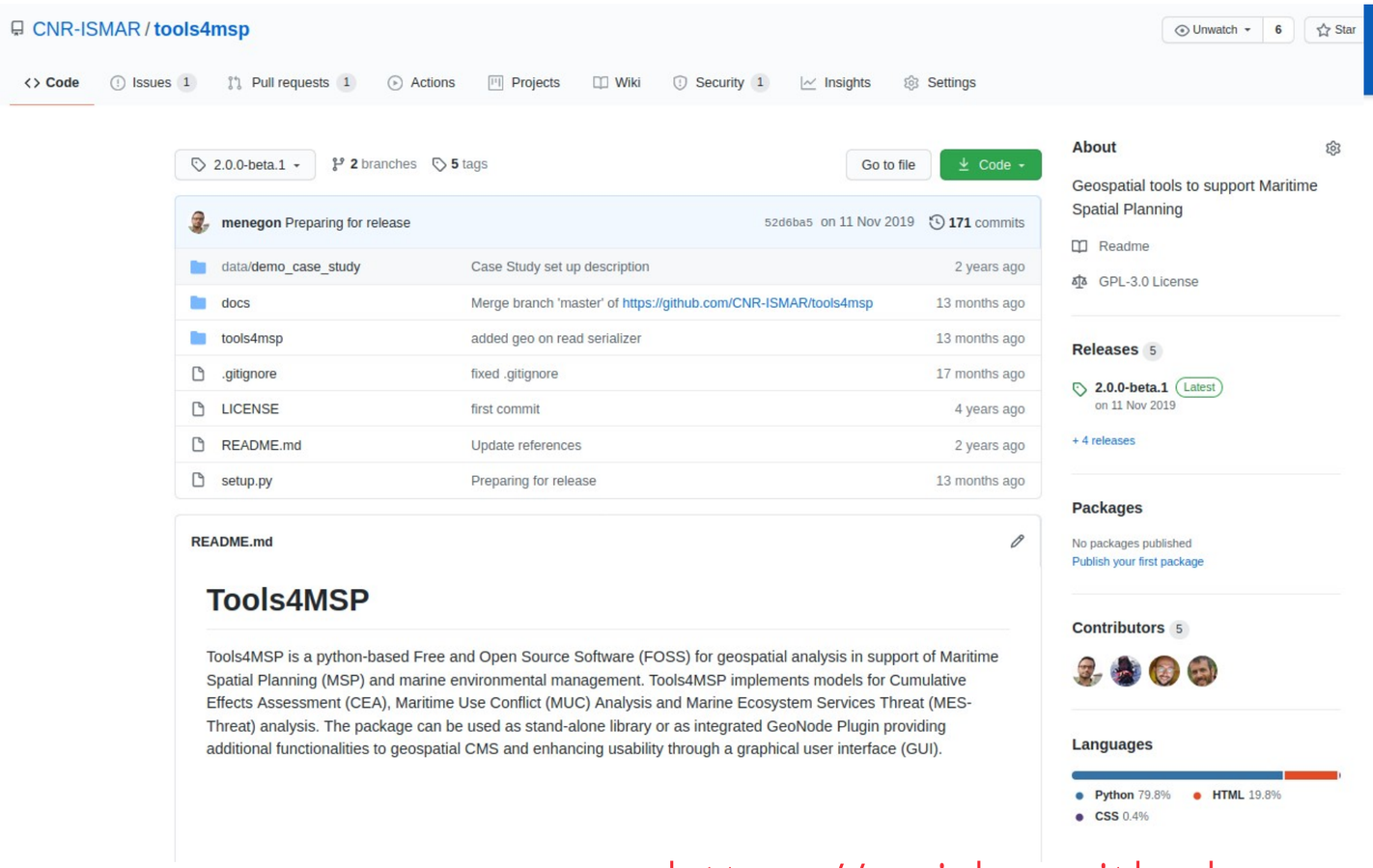
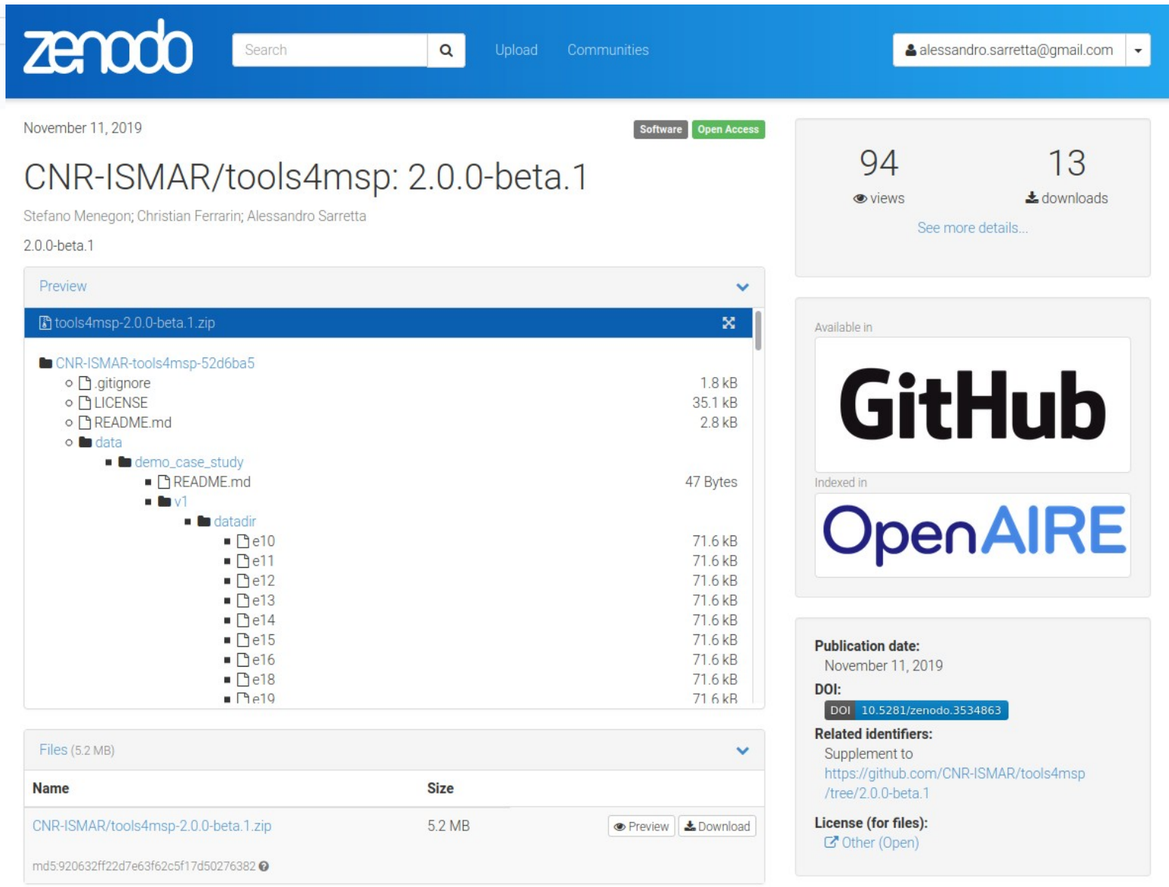
Zenodo + GitHub integration





https://guides.github.com/activities/citable-code/

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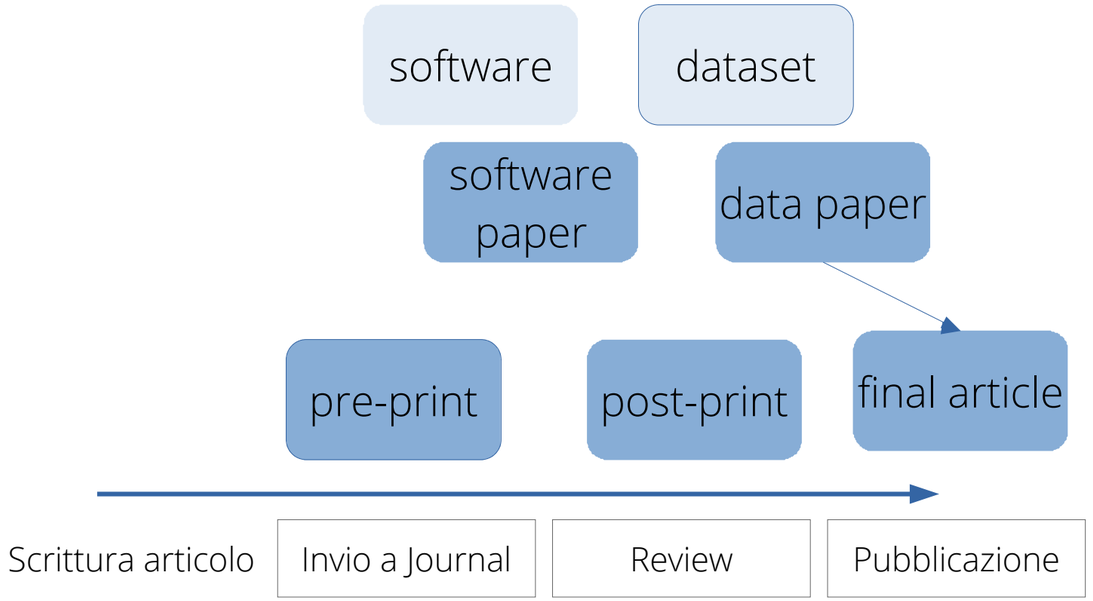
Cosa fare per condividere le mie ricerche

- Archiviare i pre-print di tutti gli articoli i repository pubblici
- Pubblicare i post-prints degli articoli pubblicati (in riviste chiuse) in un repository pubblico
  - Rispettando eventuali limitazioni, e.g. embargo e licenza
- Pubblicare in riviste Open Access
- Pubblicare i dati alla base della ricerca in data repository con DOI (e imparare a citarli!)
- Pubblicare data paper per descrivere i dataset pubblicati
- Pubblicare software su repository (e.g. GitHub, GitLab) e software paper su software Journal
- Condividere sul web



Attenzione a dove e come condividere...

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Science of The Total Environment
Volume 609, 31 December 2017, Pages 1627-1639

Multi-objective spatial tools to inform maritime spatial planning in the Adriatic Sea

Daniel Depellegrin [a], [1], Stefano Menegon [a], [1], Giulio Farella [a], Michol Ghezzo [a], Elena Gissi [b], Alessandro Sarretta [a], Chiara Venier [a], Andrea Barbanti [a]

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Highlights

- A set of geospatial tools for sea planning and environmental management in the Adriatic Sea are described.
- Cumulative impacts and sea use conflicts are significantly higher

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Data collection and mapping – Principles, p…
Marine Policy, Volume 50, Part A, 2014, pp. 27-33
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The Portuguese maritime spatial plan
Marine Policy, Volume 42, 2013, pp. 325-333
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July 20, 2017

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Multi-objective spatial tools to inform Maritime Spatial Planning in the Adriatic Sea

Depellegrin, Daniel; Menegon, Stefano; Ghezzo, Michol; Gissi, Elena; Sarretta, Alessandro; Farella, Giulio; Venier, Chiara; Barbanti, Andrea

This research presents a set of multi-objective spatial tools for maritime spatial planning and environmental management in the Adriatic Sea Basin. The too assessment of cumulative impacts from anthropogenic sea u marine areas, 2) 3-D hydrodynamic modelling of nutrient disp riverine sources in the Adriatic Sea Basin; 3) analysis of sea us services capacity assessment from benthic habitats based or were presented and discussed for their spatial distribution an regulatory frameworks in the Adriatic-Ionian Region.

This is a preprint (pre-peer reviewed) version of the followin Farella, Michol Ghezzo, Elena Gissi, Alessandro Sarretta, Ch inform maritime spatial planning in the Adriatic Sea, In Scie 1627-1639, ISSN 0048-9697, https://doi.org/10.1016/j.scito

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1**TITLE: Multi-objective spatial tools to inform Maritime Spatial Planning in the Adriatic Sea**

2

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5

6[1]*CNR - National Research Council of Italy, ISMAR - Institute of Marine Sciences Venice Italy.*

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7[2]*Department of Design and Planning in Complex Environments, Università Iuav di Venezia, Venice,*
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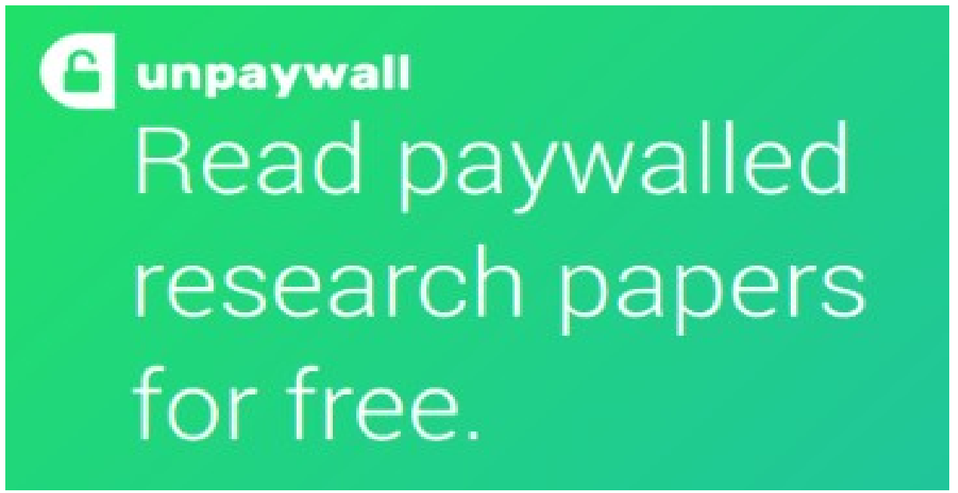

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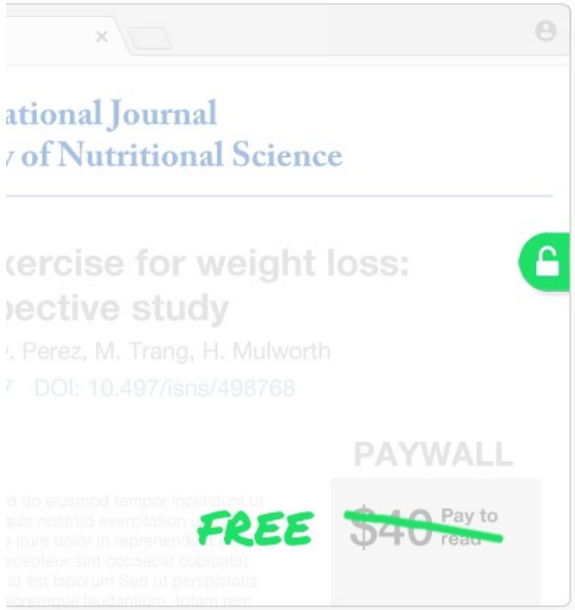

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1. Introduction
2. Materials and methods
3. Results
4. Discussion
5. Conclusions
Acknowledgments
Appendix A. Supplementary data
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Science of The Total Environment

Volume 609, 31 December 2017, Pages 1627-1639

Multi-objective spatial tools to inform maritime spatial planning in the Adriatic Sea

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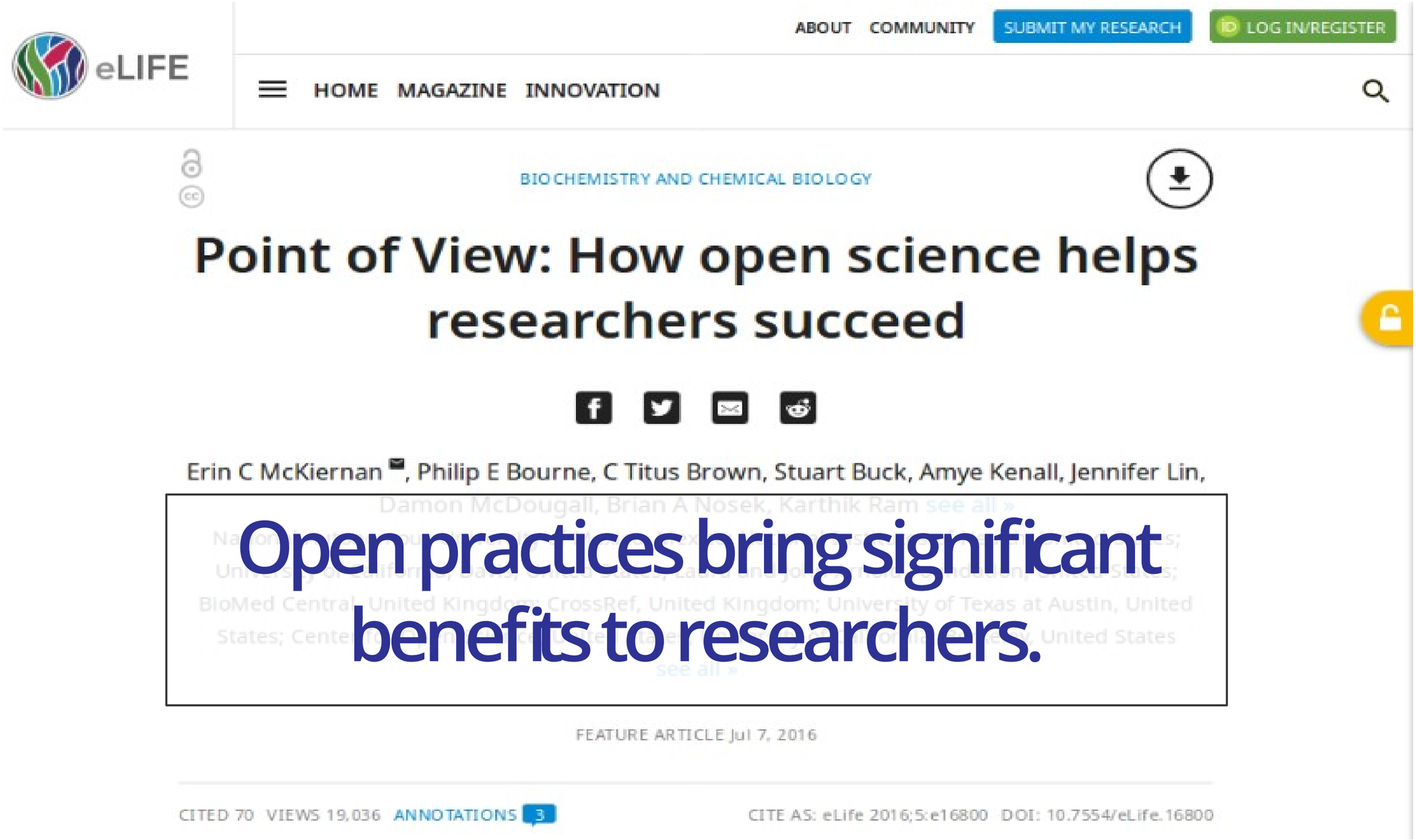
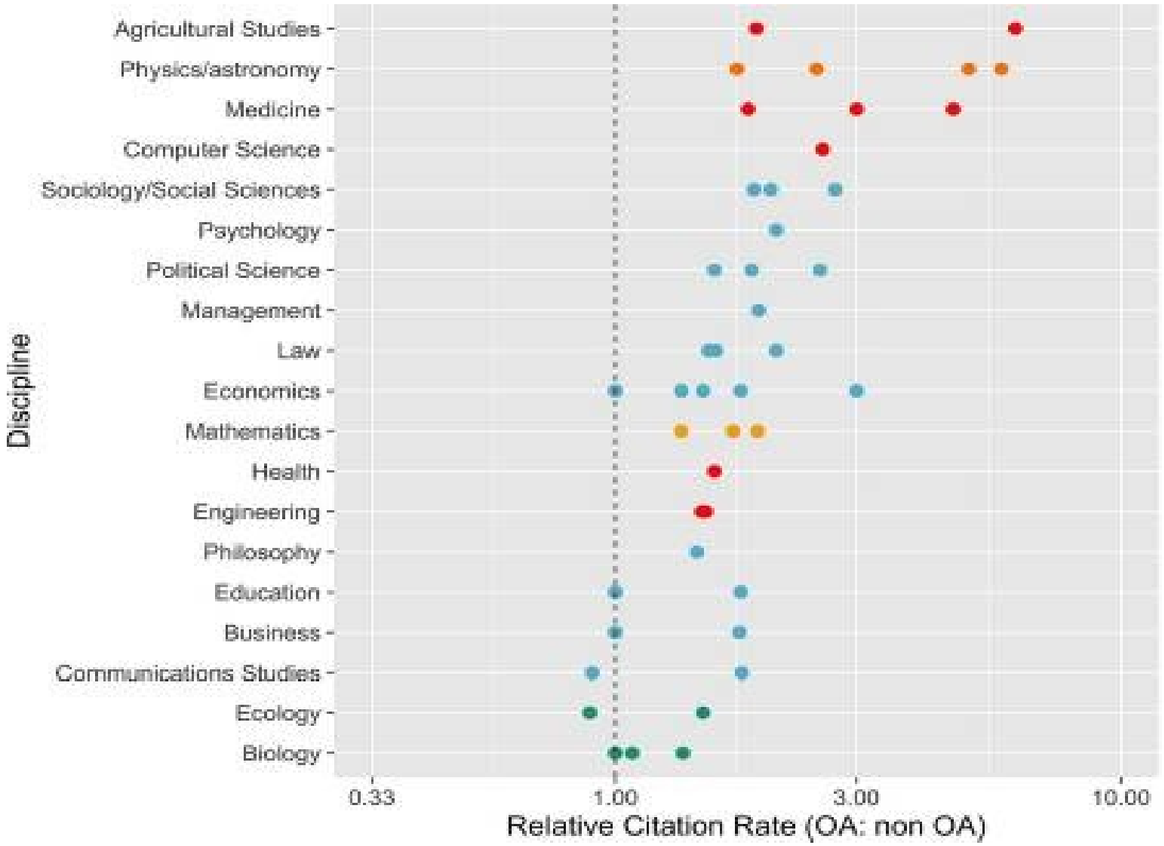


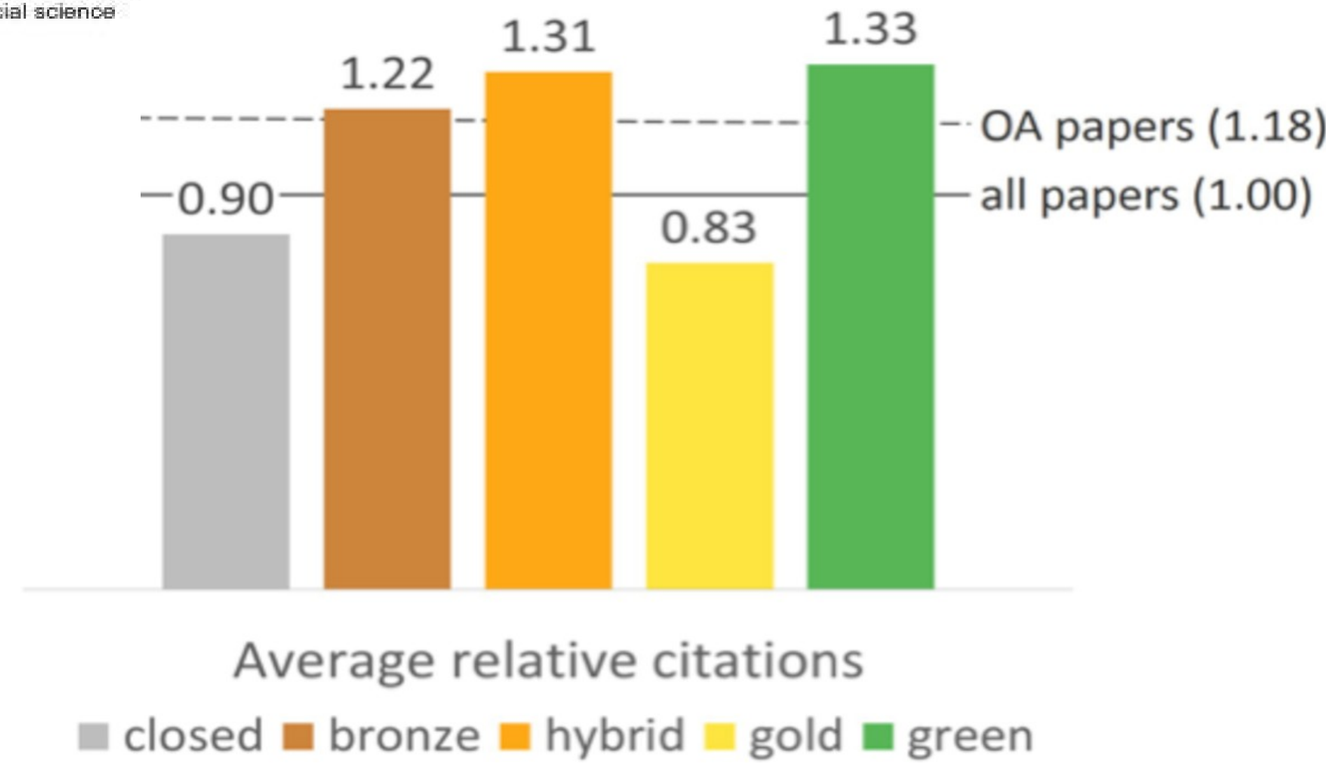
McKiernan, E. et al. (2016). How open science helps researchers succeed. ELife, 5(JULY), 1–19. https://doi.org/10.7554/eLife.16800

Open access articles get more citations

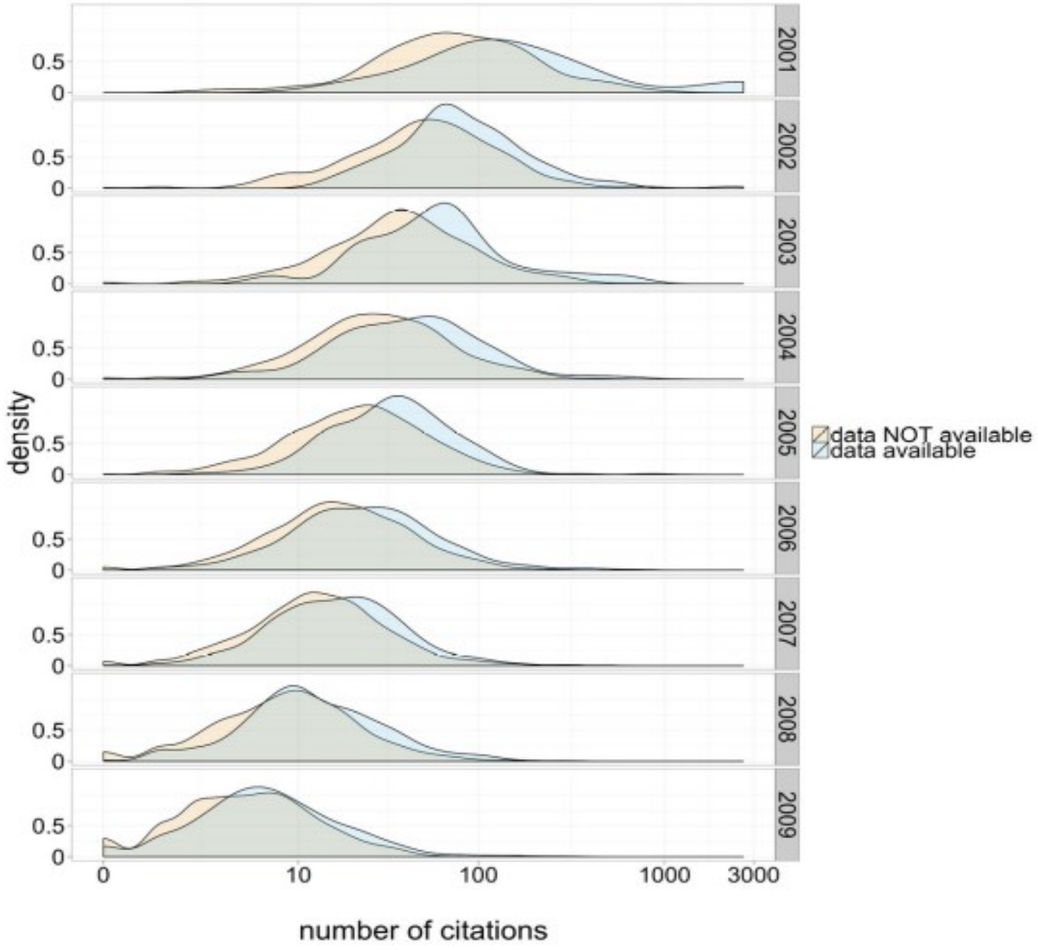


McKiernan, E. et al. (2016). How open science helps researchers succeed. ELife, 5(JULY), 1–19. https://doi.org/10.7554/eLife.16800

Average relative citations of different access types of a random sample of WoS articles and reviews with a DOI published between 2009 and 2015. DOI: 10.7717/peerj.4375/fig-5



Data sharing citation advantage

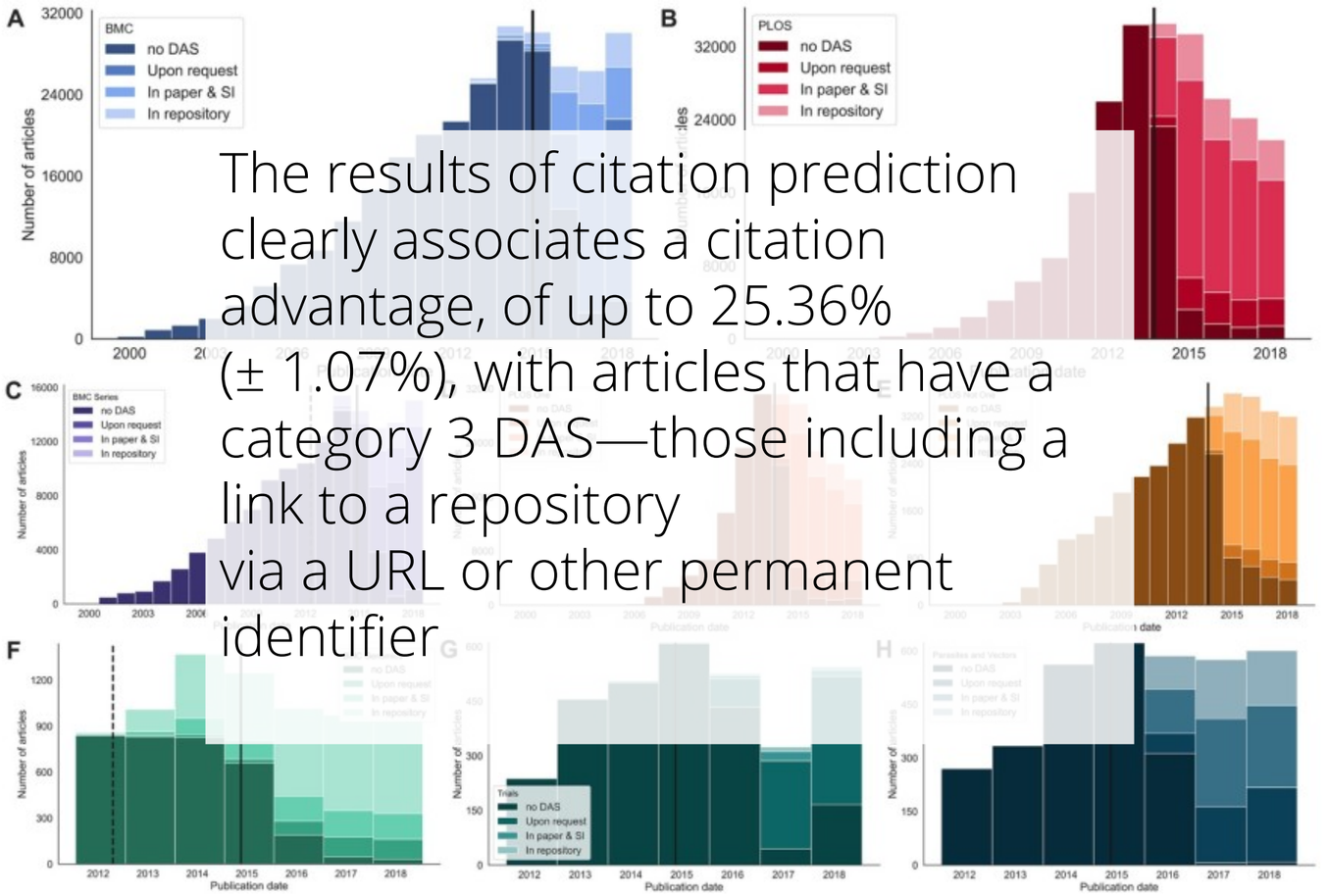


Piwowar HA, Vision TJ. 2013. Data reuse and the open data citation advantage. PeerJ 1:e175 https://doi.org/10.7717/peerj.175

Figure 1: Citation density for papers with and without publicly available microarray data, by year of study publication. DOI: 10.7717/peerj.175/fig-1

The presence of data availability statements over time

Fig 2A and 2B show the number of articles in the dataset between the years 2000 and 2018 inclusive. The solid vertical lines show when the publisher introduced a DAS mandate



The results of citation prediction clearly associates a citation advantage, of up to 25.36% (± 1.07%), with articles that have a category 3 DAS—those including a link to a repository via a URL or other permanent identifier

Colavizza G, Hrynaszkiewicz I, Staden I, Whitaker K, McGillivray B (2020) The citation advantage of linking publications to research data. PLoS ONE 15(4): e0230416. https://doi.org/10.1371/journal.pone.0230416

Collaborazione

- Pratiche Open possono facilitare la connessione e la collaborazione tra ricercatori
- Aumento della *discoverability* e visibilità del proprio lavoro
- Facilitare l'accesso rapido a dati recenti e risorse software
- Creazione di nuove opportuntà per interagire e contribuire a progetti condivisi

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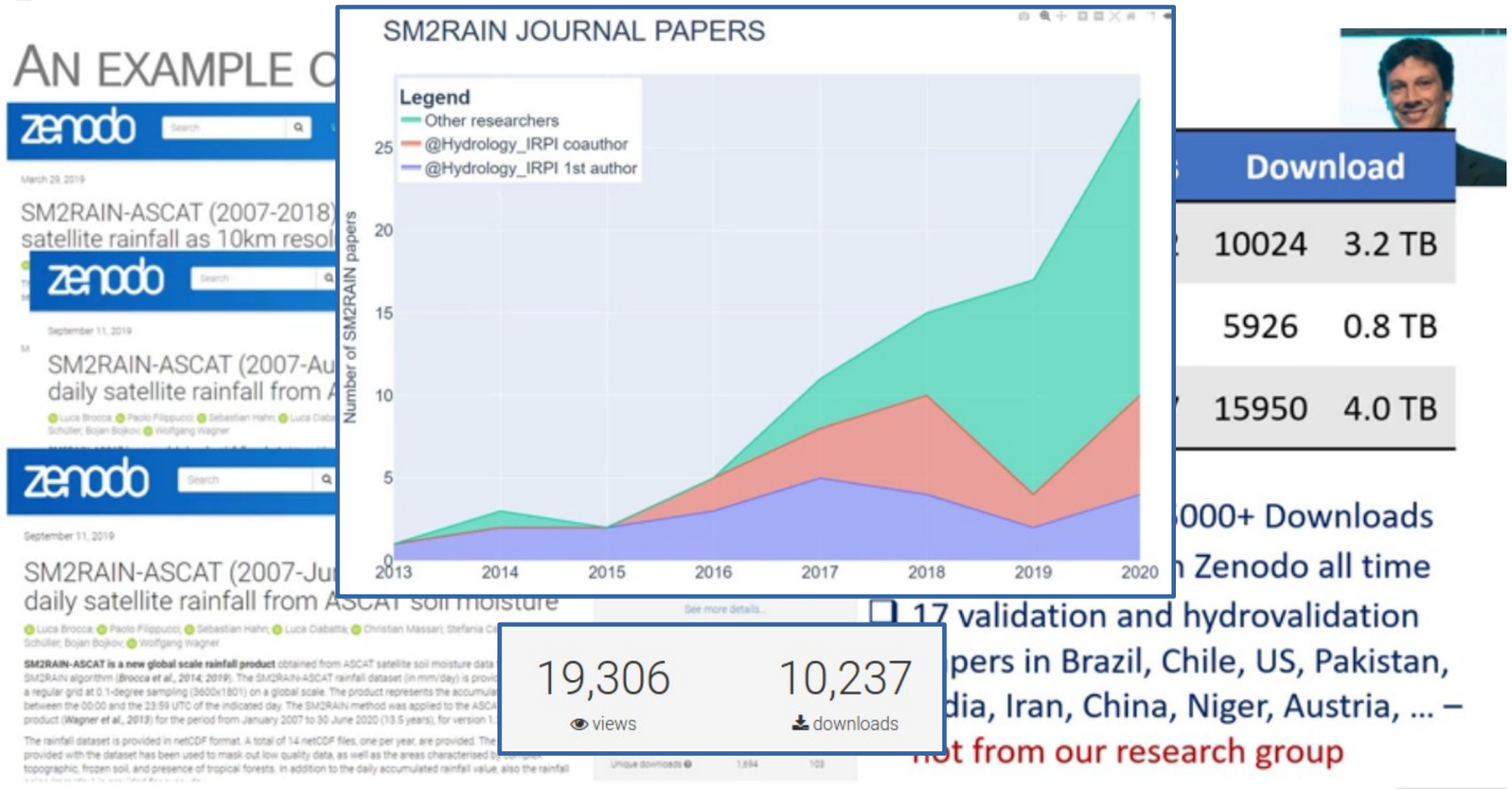
Un esempio positivo

- Luca Brocca et al. (2019). *SM2RAIN-ASCAT (2007-June 2020): global daily satellite rainfall from ASCAT soil moisture* (Version 1.3) [Data set]. Zenodo. http://doi.org/10.5281/zenodo.3972958



Luca Brocca, "The Basics and Benefits of Writing a Data Paper" presented at the webinar "How and Why You Should Publish Your Geoscience Dataset", 17 November 2020. Online: Webpage; YouTube video.

Valid reasons not to participate in open science practices

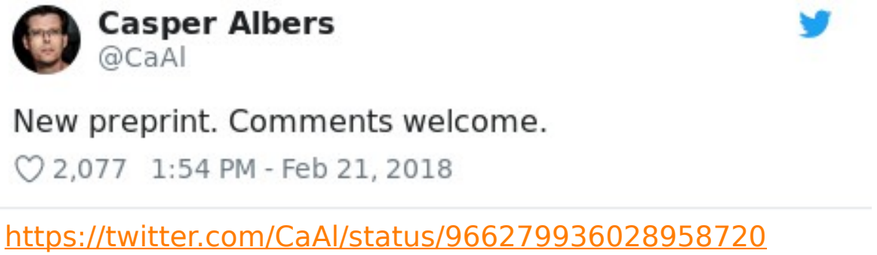
Caper J. Albers*

Abstract

The past years have seen a sharp increase in the attention for open science practices. Such practices include pre-registration and registered reports, sharing of materials, open access publishing and attention to reproducibility of research. Despite the overwhelming amount of evidence highlighting the benefits of open science, some researchers remain reluctant. In this paper, I will outline valid reasons for researchers not to participate in open science practices.

Discussion

There are no valid reasons.



https://twitter.com/CaAl/status/966279936028958720

Thank you!

Alessandro Sarretta

alessandro.sarretta@irpi.cnr.it

This work was partially supported by European Union's Horizon 2020
under projects grant Agreement numbers 831644, 857650, and 777541