AGU Fall Meeting 2018

21st century scientific publishing: Policies, practices, and pitfalls

New offerings for science researchers wanting to publish in the 21st century

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CL# Pending

Jet Propulsion Laboratory
California Institute of Technology

THE PRINCIPLE

"Science isn't done until it is shared."

NASA Chief Scientist Jim Green
Nov. 25, 2018

IN THE BEGINNING…

1. Submit a manuscript to an editorial committee, and…
2. Wait for a response, either
   a) accepted without revisions,
   b) rejected outright, or, most commonly,
   c) resubmit with revisions.
3. ~~Profit~~ Publish

TODAY

Many, **many** more options and processes involved in publishing research.

OPEN ACCESS AND CREATIVE COMMONS

What is ”Open Access”?

https://en.wikipedia.org/wiki/Open_access

https://www.plos.org/open-access

https://sparcopen.org/open-access/

Creative Commons: https://creativecommons.org/

https://en.wikipedia.org/wiki/Creative_Commons

OPEN DATA REPOSITORIES

Publishers may require you to post your data before they will publish your article.

Public data repositories

- https://data.nasa.gov/
- https://www.data.gov/
- https://www.nature.com/sdata/policies/repositories
  - Free or $$?
- https://journals.plos.org/plosone/s/data-availability#loc-recommended-repositories

Check with your organization – Do they have a data repository?

PREPRINT SERVERS AND INFORMATION SHARING

Information sharing and copyright ownership – do you own your stuff?

Check your institution's intellectual property and copyright policy. (Even though you may work for a university)

Preprint servers - https://en.wikipedia.org/wiki/Preprint

- https://www.essoar.org/
- https://arxiv.org/

https://en.wikipedia.org/wiki/List_of_academic_journals_by_preprint_policy

Iteration/versioning in repositories

ORCID

A portable, personal author identification service

https://orcid.org/about/what-is-orcid/mission

https://members.orcid.org/research-organizations

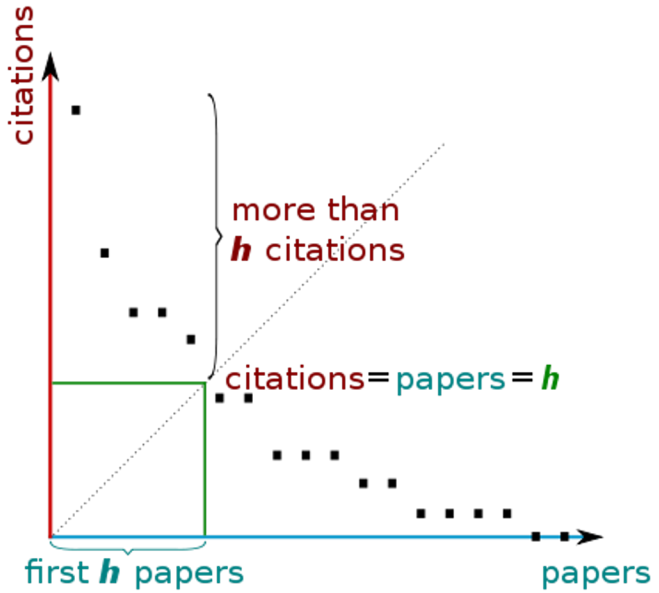
https://vimeo.com/97150912

ALTMETRICS

Altmetric

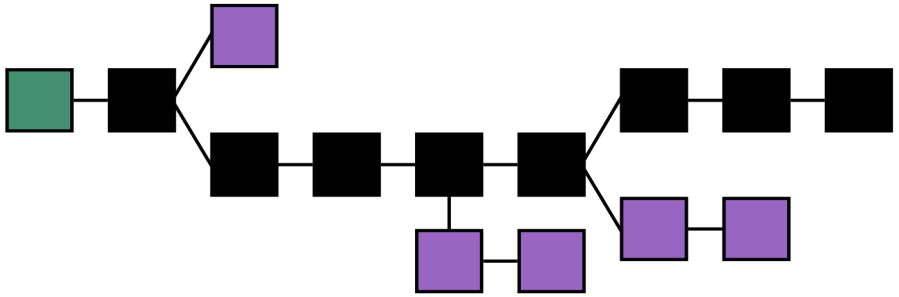
Impactstory

PLUM ANALYTICS



- https://en.wikipedia.org/wiki/Altmetrics
- H (Hirsch)-index: https://en.wikipedia.org/wiki/H-index
- Altmetric (company): https://www.altmetric.com/
- ImpactStory - https://profiles.impactstory.org/u/0000-0001-6728-7745
- Plum Analytics: https://plumanalytics.com/

BLOCKCHAIN TECHNOLOGY



Blockchain 101 for Scientists - Publishing and Peer Review https://youtu.be/yapFrrEEcKg

Blockchain for Peer Review

https://www.blockchainpeerreview.org/

Bitcoin wiki. *Theymos from Bitcoin wiki vectorization*. https://commons.wikimedia.org/wiki/File:Blockchain.svg. Creative Commons License CC BY-SA 3.0.

PREDATORY JOURNALS

- Beall's list - https://beallslist.weebly.com/
- https://www.economist.com/the-economist-explains/2018/07/10/what-are-predatory-academic-journals
- https://www.nytimes.com/2017/10/30/science/predatory-journals-academics.html
- https://www.enago.com/academy/identifying-predatory-journals-using-evidence-based-characteristics/
- https://en.wikipedia.org/wiki/Predatory_open-access_publishing

ASK A Librarian

Time to:

Share your own difficulties and pitfalls around 21st century scientific publishing

Get knowledgeable advice

FOR CHRISTMAS I WANT A DRAGON!
BE REALISTIC
OK I WANT my paper to be accepted without revisions
WHAT COLOR DO YOU WANT YOUR DRAGON
RED

Image Attributions and references

OPEN ACCESS: https://creativecommons.org/about/program-areas/open-access/open-access-logo/

ESSOAR: https://www.essoar.org/

ARXIV: https://cis.cornell.edu/arxiv-looks-future-move-cornell-cis

ORCID: https://figshare.com/articles/ORCID_iD_icon_graphics/5008697

ORCID VIDEO: https://vimeo.com/97150912

ALTMETRICS: https://www.jisc.ac.uk/website/copyright?loc=cc

PLUM ANALYTICS: https://plumanalytics.com/about/contact/

ALTMETRIC: https://www.altmetric.com/about-us/logos/

IMPACTSTORY: http://blog.impactstory.org/new-impactstory-logo/

H-INDEX: https://en.wikipedia.org/wiki/H-index#/media/File:H-index-en.svg

SHARK IMAGE: https://www.flickr.com/photos/berniedup/32749142772/ https://commons.wikimedia.org/wiki/File:Great_White_Shark_(Carcharodon_carcharias)_(32749142772).jpg

SANTA CARTOON: http://as-per-usual.tumblr.com/

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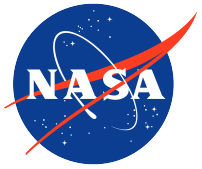

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