



The Open Advantage for Early Career Researchers

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UNIVERSITY OF
BATH



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A bit about myself, for context...

I'm an evolutionary biologist into fossils & phylogenetics

- * Vocal advocate for open scholarship (not just access!)
- * Awarded Panton Fellowship 2012-13
- * Submitted PhD @UniOfBath Oct 2013
- * Now BBSRC-funded Postdoc at Bath, text & data mining
- * On Organising Committee of:



(2013)



OPENCON2014
The Student and Early Career Researcher Conference on
Open Access, Open Education and Open Data

<http://www.opencon2014.org/>

(Washington, D.C., November 2014)



Why do I care about Open Access?

The abundance of paywalls seriously obstructs my ability to do rigorous research.

I believe charitably and publicly-funded research should be available to all, to read and re-use, at no extra cost. (~80% of academic research is public-funded)

I *want* my research to be read and re-used by others, rather than locked-away behind a paywall.



Why do I care about Open Data?

In my fields (palaeo, phylogenetics) data sharing is improving but still poor: ~4-16% of papers publicly share usable data.

I believe charitably and publicly-funded research outputs **including data & software** should be available to all, to read and re-use, at no extra cost. (~80% of academic research is public-funded)

I *want* my research data & scripts to be re-used & cited by others, rather than languishing on my hard drives.

Avoid the shame of having your work paywalled!

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[Home](#) >> [Journal of Biobased Materials and Bioenergy](#), Volume 6, Number 4

Heat Barrier Properties of Green Composites

Authors: Takagi, Hitoshi; Liu, Ke; Osugi, Ryosuke; Nakagaito, Antonio Norio; Yang, Zhimao

Source: [Journal of Biobased Materials and Bioenergy](#), Volume 6, Number 4, August 2012 , pp. 470-474(5)

Publisher: [American Scientific Publishers](#)

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5 page article 

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 **\$113 !!!**

Source: <http://dx.doi.org/10.1166/jbmb.2012.1234> (still available at that price, UoBath has no access)

OA hugely benefits text & data mining

I've had my access to at least one publisher (BioOne) cut-off before. My 'crime' – downloading more than 25 PDFs in 5 minutes.

The paywall system and its rate limitations create artificial obstacles for researchers.

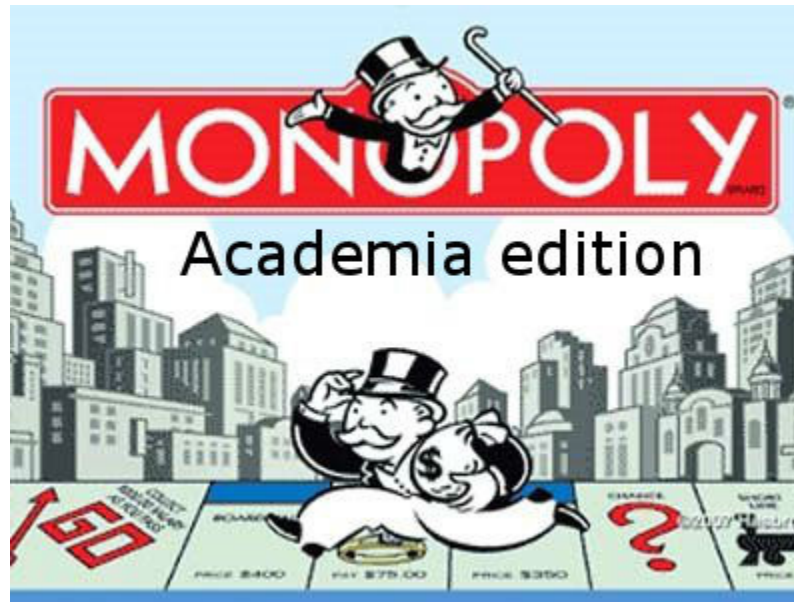
In contrast, OA publishers have no problem with you downloading ALL their content. Many even actively facilitate this. **I have all of PLoS on a USB stick.**

ALL of PLoS



#iCANhazPDFs

Practical steps: Avoid monopolistic publishers



When articles are published the publisher often takes the copyright of the work. After this, no-one else can publish copies of it, not even the author(s)! https://en.wikipedia.org/wiki/Copyright_transfer_agreement

N.B. Don't sign away your copyright! Journals do not need to take away your ©

Aim for newer, better journals

It's a myth that gold OA is 'expensive'

'gold' open access simply means journal-mediated OA

Most OA journals do not charge (APC's) to publish with them*

Journal of Economic Perspectives

Cost-Free
(for Authors)



eLIFE

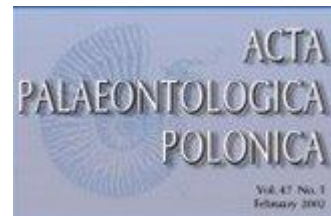
ecancer

JMLR

AMNH Bulletin



IDEAS IN ECOLOGY AND EVOLUTION



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Royal Society Open Science

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BioMed Central
The Open Access Publisher



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frontiers
OPEN ACCESS PUBLISHING AND RESEARCH NETWORKING



*Source: Solomon, D. J. and Björk, B.-C. 2012. A study of open access journals using article processing charges. J Am Soc Inf Sci Tec 63:1485-1495. <http://dx.doi.org/10.1002/asi.22673>



My experience with OA - 'gold-route'

	Cost
Stoltzfus, A., O'Meara, B., Whitacre, J., Mounce, R. , Gillespie, E., Kumar, S., Rosauer, D., and Vos, R. 2012. Sharing and re-use of phylogenetic trees (and associated data) to facilitate synthesis. <i>BMC Research Notes</i> 5:574+	Fee-waiver
Mounce, R 2013. Open access and altmetrics: Distinct but complementary. <i>Bulletin of the American Society for Information Science and Technology</i> 39:14-17.	Free
Poisot, T., Mounce, R. , and Gravel, D. 2013. Moving toward a sustainable ecological science: don't let data go to waste! <i>Ideas in Ecology and Evolution</i> 6.	Free
Vos, R ... Mounce, R. et al 2014. Enriched biodiversity data as a resource and service. <i>Biodiversity Data Journal</i> 2:e1125+	Free



My experience with OA - 'green-route'

Available in full at:

Mounce, R. and Wills, M. A. 2011. Phylogenetic position of *Diania* challenged. *Nature* doi: [10.1038/nature10266](https://doi.org/10.1038/nature10266)

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&
Academia.edu

Mounce, R. and Janies, D., 2013. Synergistic sharing of data and tools to enable team science. In: Zander, J. and Mosterman, P. J., eds. *Computation for Humanity: Information Technology to Advance Society*. CRC Press, pp. 437-447. [book chapter]

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Mounce, R. and Wills, M. A. 2011. Methods of determining cranial and postcranial character congruence. doi: [10.6084/m9.figshare.88864](https://doi.org/10.6084/m9.figshare.88864) [conference poster]

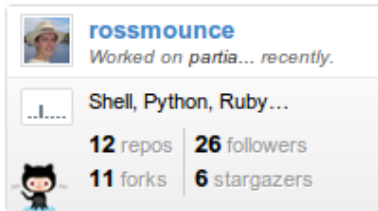
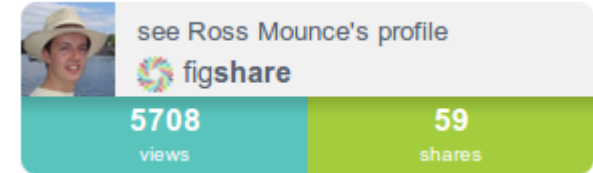


Stoltzfus A, O'Meara B, Whitacre J, **Mounce R**, Gillespie EL, Kumar S, Rosauer DF, Vos RA (2012) Data from: Sharing and re-use of phylogenetic trees (and associated data) to facilitate synthesis. Dryad Digital Repository. doi: [10.5061/dryad.h6pf365t](https://doi.org/10.5061/dryad.h6pf365t) [DATA]



Tools!

Use these to your advantage!



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