

12 November 2024

Institutional Repositories as tools to advance Open Science: maximizing research visibility and impact



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Overview

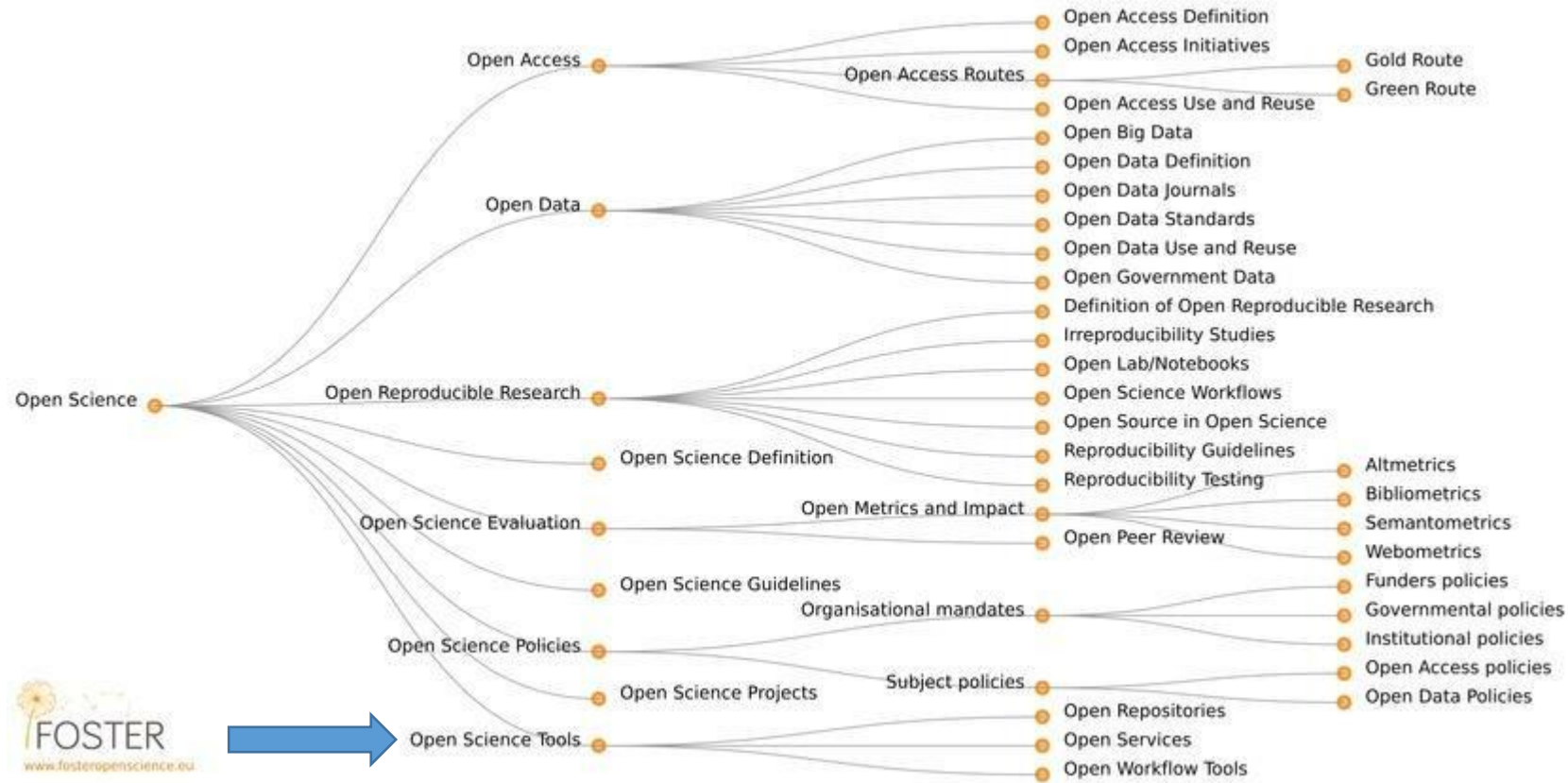
- What is Open Science?
- NRF Statement on Open Access (OA)
- The research lifecycle
- Institutional Repositories (IRs)
- Harvesting and Registries
- Research visibility and impact
- Promoting your research
- Researcher profile tools
- Conclusion

What is “Open Science”?

- The movement to make scientific research outputs, data, and their dissemination available to any member of an inquiring society, from professionals to citizens.
- Open Science strategy implies that institutions allow or encourage researchers to publish research outcomes in journals with less restrictive policies.
- It is about transparency, sharing, and inclusivity
 - Making research visible.
 - Making research accessible and usable.
 - Increases scientific collaborations and information sharing.

[UNESCO, 2023](#)

UNESCO Open Science Taxonomy



Ribeiro, Silveira, and Santos (2020)

NRF Statement on Open Access, 2015

Research Articles, electronic theses and dissertations (eTDs)

- Research either fully or partially funded by NRF
- Peer-reviewed manuscripts on institutional repositories (IR)
- No more than 12 months embargo period
- Articles published in Open Access and/or publisher allows published version in PDF (IR)

Research Data

“the data supporting the publication should be deposited in an accredited Open Access repository, with the provision of a Digital Object Identifier for future citation and referencing”

Research Lifecycle



Types of Repositories



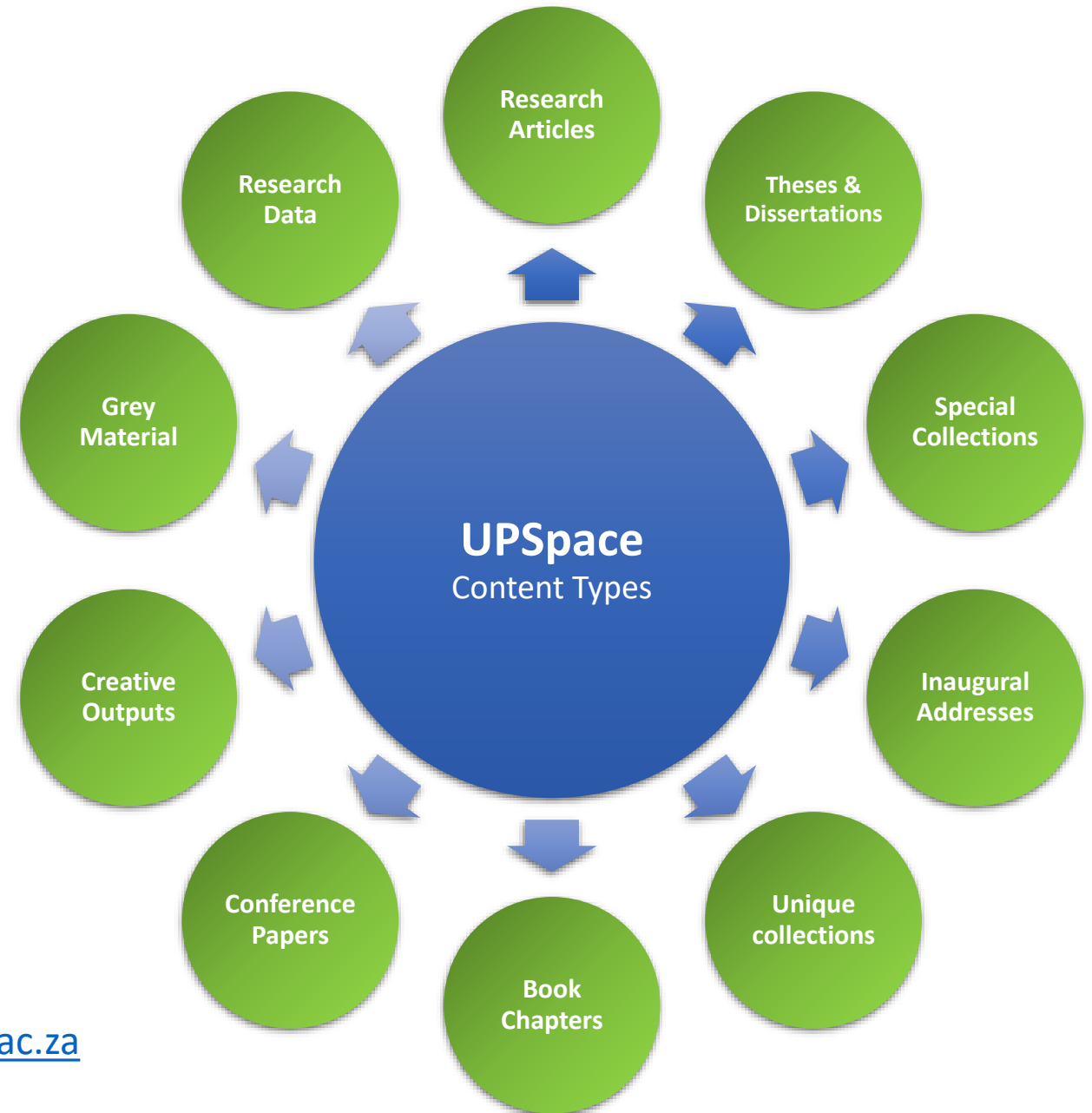
What is an Institutional Repository?

- “- an institutional repository is a set of services that an institution offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members.
- It is most essentially an organizational commitment to the stewardship of these digital materials, including long-term preservation where appropriate, as well as organization and access or distribution”

Clifford L, 2003

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Harvesting and Registries

- **Harvesters**

- Google and Google Scholar indexed
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- NDLTD - Networked Digital Library of Theses and Dissertations
- Sabinet/African Digital Repository
- Proquest DT

- **Registries**

- OpenDOAR – a directory of academic Open Access repositories
- ROAR (Registry of Open Access Repository)
- Open Access Map
- Re3data
- ORCID
- Almetrics

Research visibility and impact

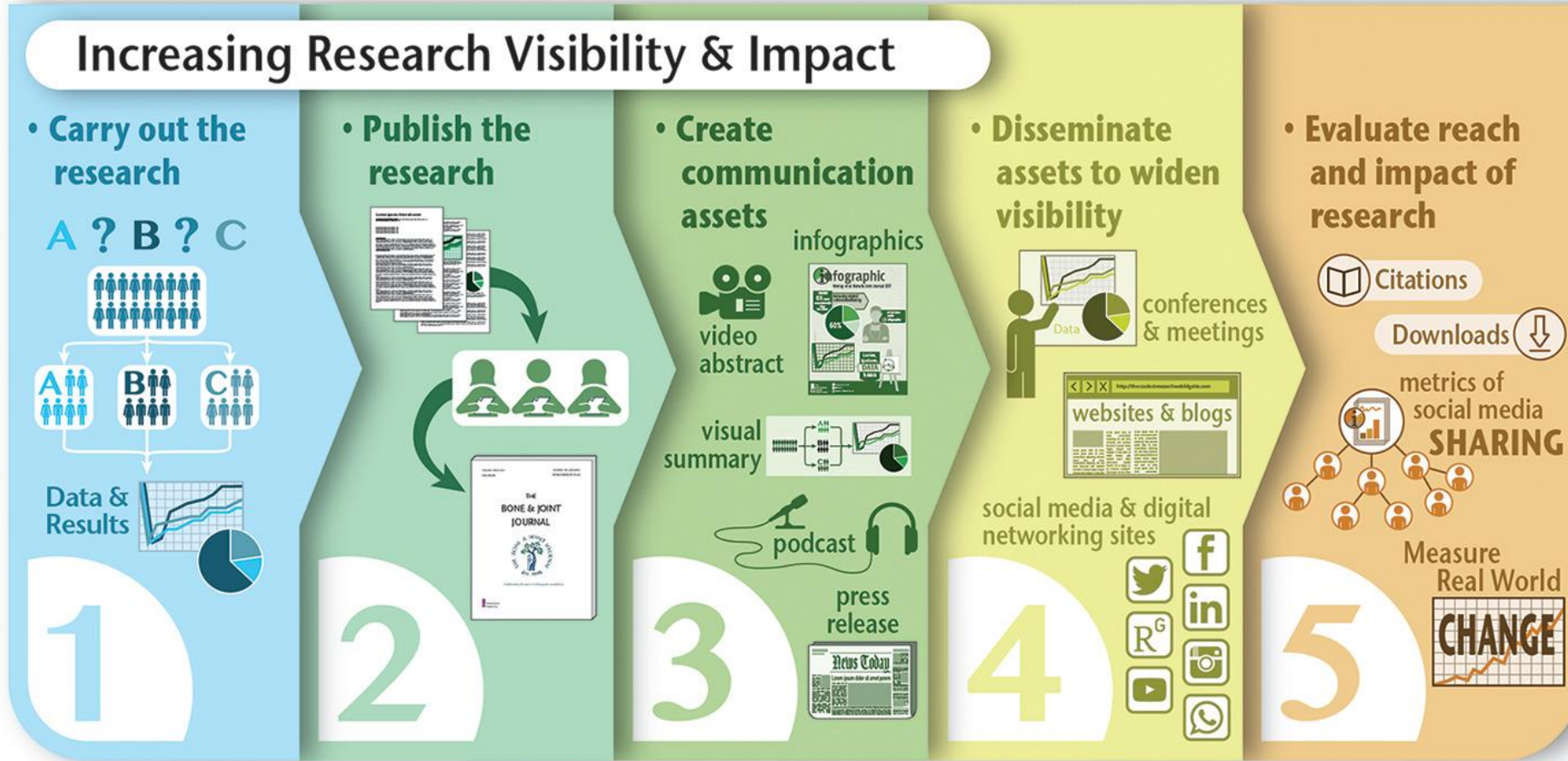
- Research visibility – “how well your work is known to the people who matter, such as other researchers, policymakers, and the public”
- Research impact - “the effect your work has on society, such as advancing knowledge, informing policy, or solving real-world problems”.

[Ebrahim, 2023:Online](#)

Benefits of research visibility (IRs)

- Reaching wider audience.
- Increased citations and downloads of your research.
- More opportunities for collaboration and funding.
- Improves profile in your field.
- Greater impact on society.

Research visibility and impact Framework

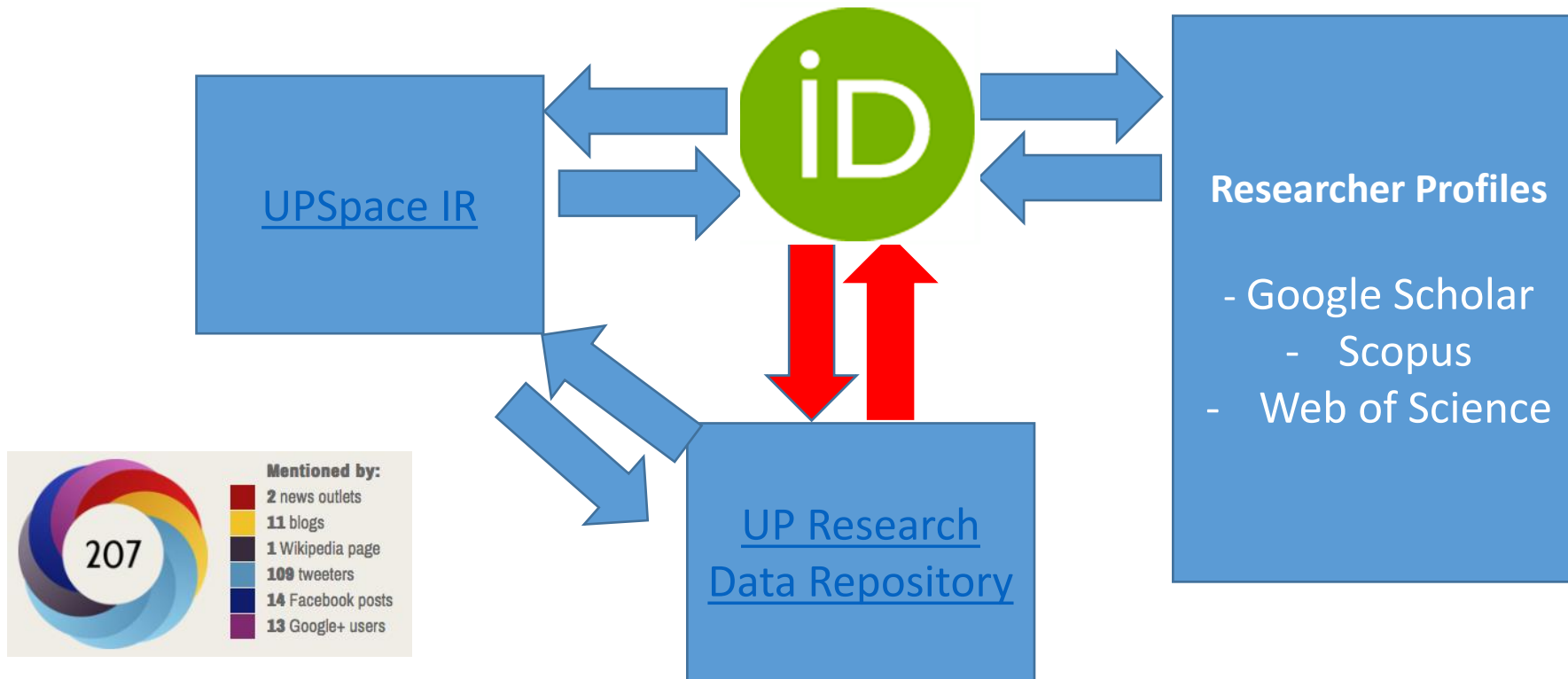


(Murray et al. 2018)

Communicating your research

- Discoverability (Keywords, SDGs).
- Publishing in Open Access Journals.
- Make sure it is archived in OA repositories.
- Share your work on social media, research networks, and other online platforms.
- Attend and present at conferences and workshops.
- Collaborate with other researchers in your field.
- Normalize talking about your research and its significant implications.

Research impact and visibility



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COVID-19 vaccines under the international health regulations - we must use the WHO international certificate of vaccination or prophylaxis

Petersen, Eskild; Lucey, Daniel; Blumberg, Lucille Hellen; Kramer, Laura D.; Al-Abri, Seif; Lee, Shui Shan; De Castro Abreu Pinto, Tatiana; Obiero, Christina W.; Rodriguez-Morales, Alfonso J.; Yapi, Richard; Abubakar, Aisha; Tambyah, Paul Anantharajah; Holmes, Allison; Chen, Lin H.

URI: <http://hdl.handle.net/2263/84851>

Date: 2021-01

Abstract:

The first vaccines against SARS-CoV-2 have now received emergency use authorization by the U.S. Food and Drug Administration (FDA), European Medicines Agency (EMA) and national authorities in China, India, UK, and Russia; and are rapidly being distributed in more than 30 countries since the end of the 2020. So far vaccines are being used by the respective countries after national approval based on promising efficacy reports and safety data, however, data on some of these vaccines have not yet been published in international peer-reviewed journals. The World Health Organization (WHO) has a role in "pre-qualifying" COVID vaccines, but WHO pre-qualification may not be necessary to record the use of immunization or prophylaxis in WHO International Certificate of Vaccination or Prophylaxis (ICVP, aka Carte Jaune or Yellow Card) as this has not been the case with other vaccines which may not be WHO prequalified. Every dose of any COVID vaccine should be entered in the WHO Yellow Card.

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E Petersen, D Lucey, L Blumberg... - International Journal of ..., 2021 - ijjonline.com

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Professor (Earth and Environmental Sciences)
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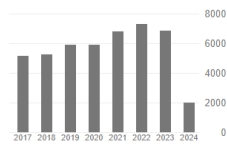
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TITLE	CITED BY	YEAR
PlantCARE, a database of plant cis-acting regulatory elements and a portal to tools for in silico analysis of promoter sequences M Lescot, P Déhal, G Thijs, K Marchal, Y Moreau, Y Van de Peer, ... Nucleic acids research 30 (1), 325-327	5398	2002
The Genome of Black Cottonwood, <i>Populus trichocarpa</i> (Torr. & Gray) GA Tuskan, S Difazio, S Jansson, J Bohmann, I Grigoriev, U Hellsten, ... science 313 (5793), 1596-1604	4901	2006
The tomato genome sequence provides insights into fleshy fruit evolution xx Tomato Genome Consortium Nature 485 (7400), 635	3180	2012
TREECON for Windows: a software package for the construction and drawing of evolutionary trees for the Microsoft Windows environment Y Van de Peer, R De Waechter Bioinformatics 19 (5), 569-570	3014	1994
The genome of the domesticated apple (<i>Malus × domestica</i> Borkh.) R Velasco, A Zharkikh, J Afourit, A Dhingra, A Cestaro, A Kalyanaraman, ... Nature genetics 42 (10), 833-839	2349	2010
The <i>Physcomitrella</i> Genome Reveals Evolutionary Insights into the Conquest of Land by Plants SA Rensing, D Lang, AD Zimmer, A Terry, A Salamov, H Shapiro, ... Science 319 (5859), 64-69	2009	2008
The <i>Phaeodactylum</i> genome reveals the evolutionary history of diatom genomes C Bowler, AE Allen, JH Badger, J Grimwood, K Jabbari, A Kuo, ... Nature 456 (7219), 239-244	1881	2008
The Norway spruce genome sequence and conifer genome evolution B Nystedt, NR Street, A Wetterbom, A Zuccolo, YC Lin, DG Scofield, ... Nature 497 (7451), 579-584	1540	2013
The <i>Medicago</i> genome provides insight into the evolution of rhizobial symbioses MN Young, E Bekalo, PER Ghadimi, D Coats, SP Coates, MK Hildrew, ...	1346	2011

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Websites & social links

Van de Peer lab
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Other IDs

ResearcherID: D-4388-2009
Loop profile: 242735
Scopus Author ID: 57221303595
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Keywords

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Yves Van de Peer

(van de Peer, Yves)
Highly Cited Researcher
Web of Science ResearcherID: AAE-7666-2019

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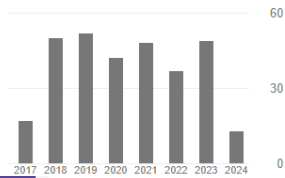
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Evaluating pixel and object based image classification techniques for mapping plant invasions from UAV derived aerial imagery: <i>Harrisia pomanensis</i> as a case study M Mafanya, P Tsele, J Botai, P Manyama, B Swart, T Monate ISPRS Journal of Photogrammetry and Remote Sensing 129, 1-11	74	2017
Validation of the two standard MODIS satellite burned-area products and an empirically-derived merged product in South Africa P Tsele, K Wessels, J Botai, S Archibald, D Swanepoel, K Steenkamp, ... Remote Sensing 6 (2), 1275-1293	74	2014
Detecting changes in surface water area of Lake Kyoga sub-basin using remotely sensed imagery in a changing climate FWN Nsubug Theoretical a	40	2017



Philemon Tsele [v](#)

(Tsele, Philemon)

[Web of Science ResearcherID: HMV-4767-2023](#)

Published names [i](#) Tsele, Philemon Tsele, Philemon Tsele, P. L. Tsele, Philemon L. Tsele, P.

Published Organizations [i](#) University of Pretoria, Univ Pretoria

Subject Categories [M24](#) Remote Sensing; Imaging Science & Photographic Technology; Geology; Environmental Sciences & Ecology; Physical Geography

Other Identifiers [i](#) <https://orcid.org/0000-0003-0765-7905>

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Tsele, Philemon ; Ramoelo, Abel ; Qabaqaba, Mcebisi

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Tsele, Philemon

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Personal information

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Scopus Author ID: 57194008190
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Activities

[Employment \(1\)](#)

University of Pretoria: Pretoria, Gauteng, ZA

2009-02-01 to present | Senior Lecturer (Geography, Geoinformatics and Meteorology)
Employment

Source: [Philemon Tsele](#)

[Education and qualifications \(1\)](#)

University of Pretoria: Pretoria, Gauteng, ZA

2009-02-01 to present | PhD in Geoinformatics
Education

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Conclusion

- Encourage researchers to publish in Open Access journals.
- Helps in improving the webometrics rankings of universities.
- Increase the visibility and prestige of the institution.
- Content is readily searchable worldwide.
- Improves Times Higher Education Impact rankings of universities (SDGs).
- Data gathered from (Scopus and Web of Science).

“Our mission of disseminating knowledge is only half complete if the information is not made widely and readily available to the society”

- Berlin Declaration on Open Access –
tlou.mathiba@up.ac.za

