

Business and Biopdiversity - Ch 4 - Snowball Pilot

Setup

► Code

```
Thank you for using openalexR!  
To acknowledge our work, please cite the package by calling  
'citation("openalexR")'.
```

► Code

```
Attaching package: 'dplyr'
```

```
The following objects are masked from 'package:stats':
```

```
filter, lag
```

```
The following objects are masked from 'package:base':
```

```
intersect, setdiff, setequal, union
```

► Code

```
Attaching package: 'tidygraph'
```

```
The following object is masked from 'package:stats':
```

```
filter
```

► Code

```
          R/plot_snowball.R R/to_excel.R  
value    ?                ?  
visible FALSE             FALSE
```

► Code

Searches

OpenAlex

Setup OpenAlex usage and do snowball search

► Code

Save snowball as Excel file (snowball_excel.xlsx)

► Code

The column are: (the Concept columns are not that relevant at the moment)

- **id**: internal id from OpenAlex
- **author**: authors of the paper
- **publication_year**: publication year
- **title**: title of the paper
- **doi**: doi of the paper
- **no_referenced_works**: number of references in the paper which are also in OpenAlex
- **cited_global**: Number of times the paper has been cited
- **cited_global_per_year**: standardised number of times cited (cited_global / number of years published)
- **no_connections**: number of connections in the rgraph, i.e. either cited or citing a paper in the snowball corpus
- **concepts_10**: Concept 0. level assigned by OpenAlex
- **concepts_11**: Concept 1. level assigned by OpenAlex
- **concepts_12**: Concept 2. level assigned by OpenAlex
- **concepts_13**: Concept 3. level assigned by OpenAlex
- **concepts_14**: Concept 4. level assigned by OpenAlex
- **concepts_15**: Concept 5. level assigned by OpenAlex

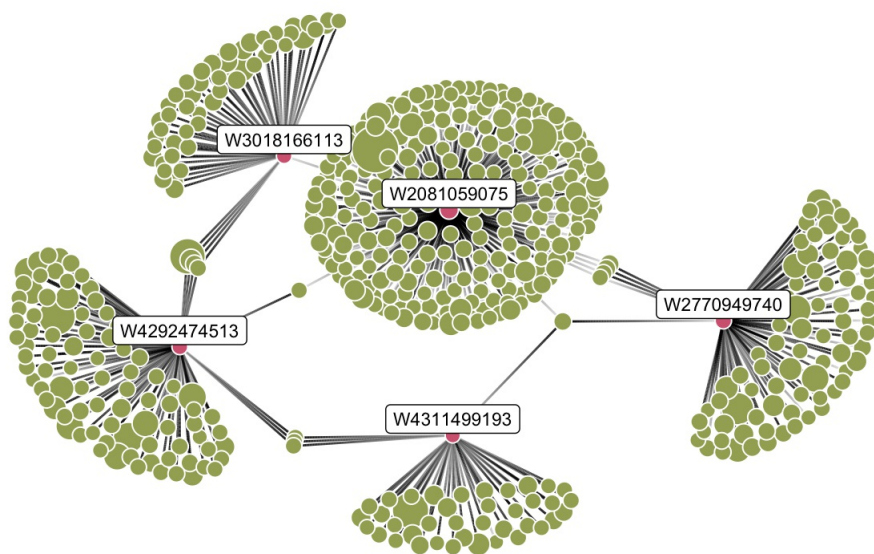
- **author_institute:** Institute of the authors
- **institute_country:** Country of the institute
- **abstract:** the abstract of the paper

Graph of links between references

► Code

Warning: Using the `size` aesthetic in this geom was deprecated in ggplot2 3.4.0.
 i Please use `linewidth` in the `default_aes` field and elsewhere instead.

Snowball Pilot Cited by count



Identification of references with more than one edge

This is the number of connections (`connection_count`) of the paper (`id`)

► Code

| id | display_name | publication_year | doi | connection_count |
|-------------|---|------------------|---|------------------|
| W2081059075 | Accounting for Ecosystem Services in Life Cycle Assessment, Part I: A Critical Review | 2010 | https://doi.org/10.1021/es9021156 | 251 |
| W4292474513 | Biodiversity accounting and reporting: A systematic literature review and bibliometric analysis | 2022 | https://doi.org/10.1016/j.jclepro.2022.133677 | 94 |
| W2770949740 | Ecosystem quality in LCIA: status quo, harmonization, and suggestions for the way forward | 2017 | https://doi.org/10.1007/s11367-017-1422-8 | 84 |
| W3018166113 | Innovations comptables pour la biodiversité et les écosystèmes : une typologie axée sur l'exigence de résultat environnemental | 2021 | https://doi.org/10.3917/cca.271.0013 | 54 |
| W4311499193 | Mainstreaming biodiversity in business decisions: Taking stock of tools and gaps | 2023 | https://doi.org/10.1016/j.biocon.2022.109831 | 43 |
| W2620737138 | LCIA framework and cross-cutting issues guidance within the UNEP-SETAC Life Cycle Initiative | 2017 | https://doi.org/10.1016/j.jclepro.2017.05.206 | 3 |
| W1980536217 | Toward Meaningful End Points of Biodiversity in Life Cycle Assessment | 2010 | https://doi.org/10.1021/es101444k | 2 |
| W1999167944 | Planetary boundaries: Guiding human development on a changing planet | 2015 | https://doi.org/10.1126/science.1259855 | 2 |
| W2010581199 | UNEP-SETAC guideline on global land use impact assessment on biodiversity and ecosystem services in LCA | 2013 | https://doi.org/10.1007/s11367-013-0579-z | 2 |
| W2016554687 | W(h)ither Ecology? The Triple Bottom Line, the Global Reporting Initiative, and Corporate Sustainability Reporting | 2012 | https://doi.org/10.1007/s10551-012-1543-8 | 2 |
| W2065840971 | Accounting for the Unaccountable: Biodiversity Reporting and Impression Management | 2014 | https://doi.org/10.1007/s10551-014-2497-9 | 2 |
| W2272194348 | Accounting for land use in life cycle assessment: The value of NPP as a proxy indicator to assess land use impacts on ecosystems | 2016 | https://doi.org/10.1016/j.scitotenv.2016.01.055 | 2 |
| W2623604874 | Corporate commitment to biodiversity in mining and forestry: Identifying drivers from GRI reports | 2017 | https://doi.org/10.1016/j.jclepro.2017.06.037 | 2 |
| W2743053030 | A blueprint towards accounting for the management of ecosystems | 2017 | https://doi.org/10.1108/aaaj-12-2015-2360 | 2 |
| W2883740377 | Using conservation science to advance corporate biodiversity accountability | 2018 | https://doi.org/10.1111/cobi.13190 | 2 |
| W2969260349 | The evolution of corporate no net loss and net positive impact biodiversity commitments: Understanding appetite and addressing challenges | 2019 | https://doi.org/10.1002/bse.2379 | 2 |
| W3038057993 | Bringing sustainability to life: A framework to guide biodiversity indicator development for business performance management | 2020 | https://doi.org/10.1002/bse.2573 | 2 |
| W3043208195 | Biodiversity Assessment of Value Chains: State of the Art and Emerging Challenges | 2020 | https://doi.org/10.1021/acs.est.9b05153 | 2 |

Finalize

To convert to pdf run e.g.

► Code