

The Social Space of Sustainability Science

**A Bibliometric Study of
Leading Journals
(2001-2021)**

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Pierre Bourdieu's Social space

Field or
Champ

Agents

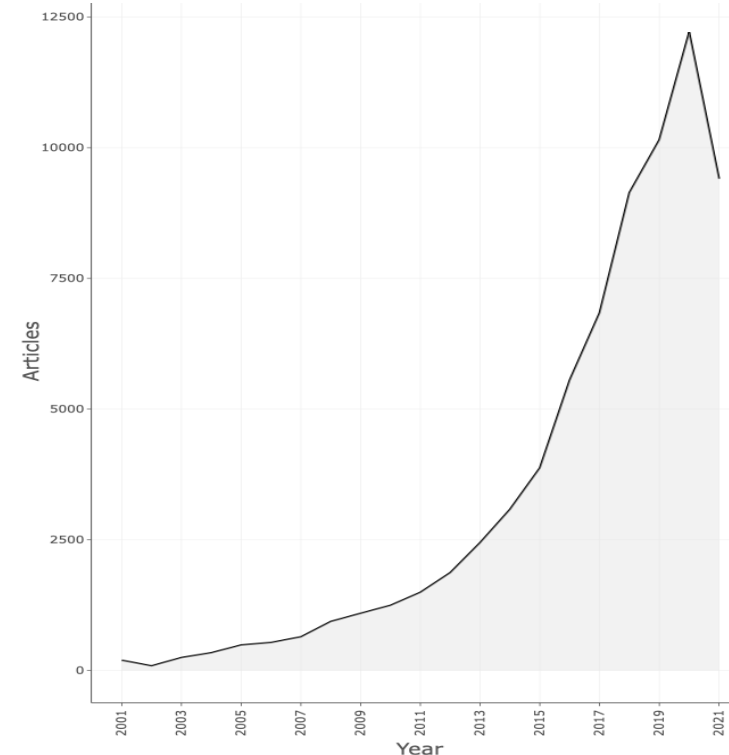
Capital

Habitus










Historical
perspective

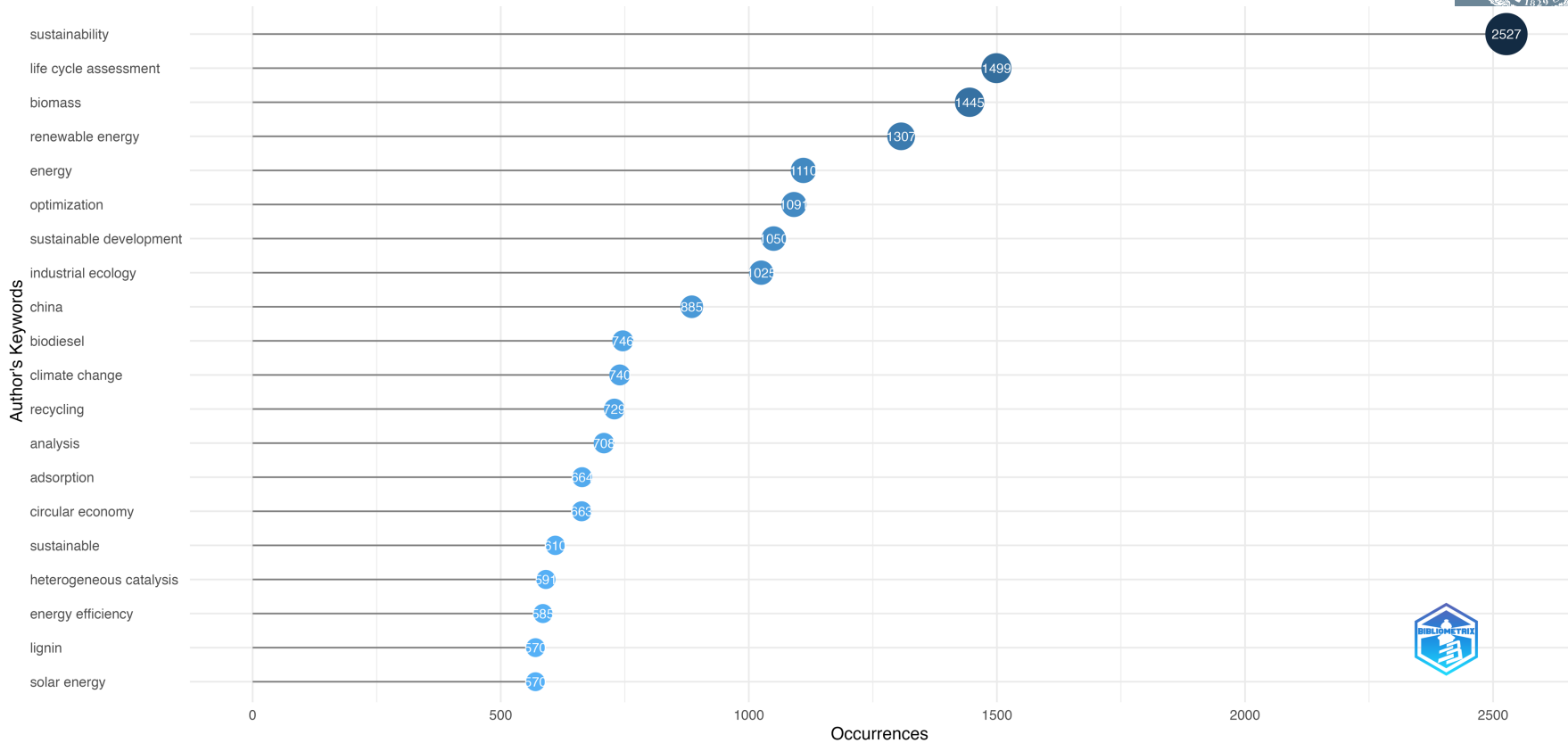
The data

- ❖ From *Web of Science (Core Collection)*
- ❖ Category “Green & Sustainable Science & Technology” (Bautista-Puig et al. 2021)
- ❖ Number of documents: 71871 (articles only)
- ❖ Data analysis with *bibliometrix* (Aria & Cuccurullo, 2017)
 - Focus on:
 - symbolic capital through journal co-citation (see Gingras, 2008);
 - countries and affiliation co-authorship (social and symbolic capital)



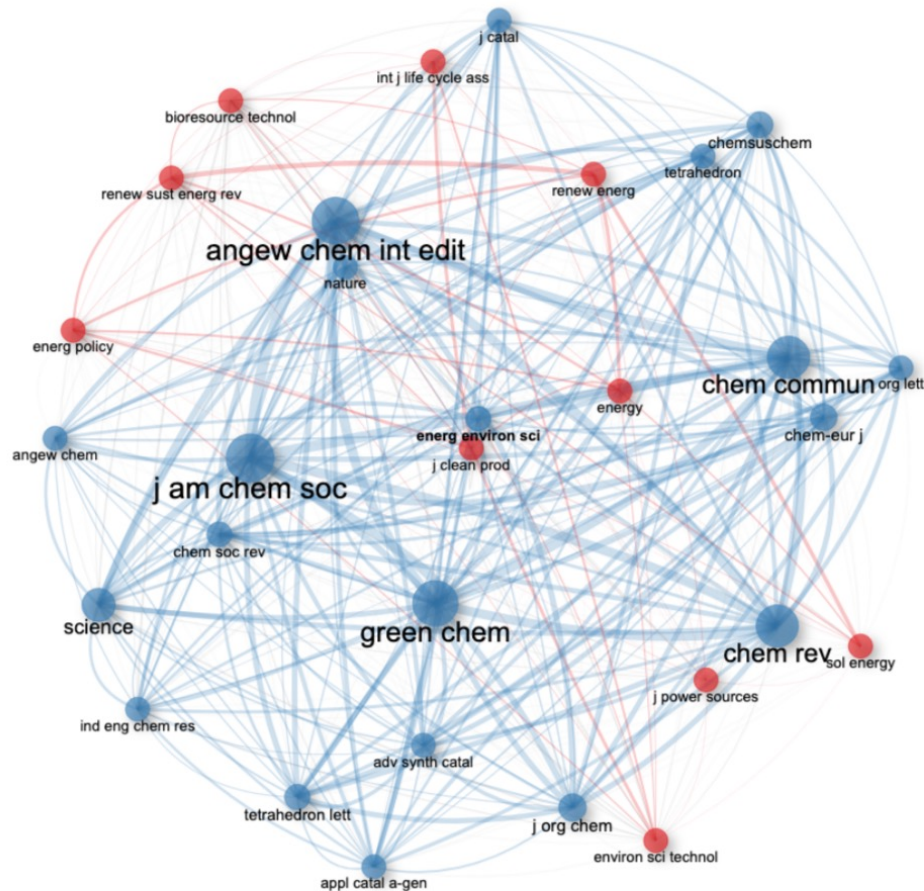
Main information on the dataset

Timespan	2001:2021	
Authors	122227	
Author's Keywords (DE)	122760	
Sources	18	
Authors of single-authored docs	2333	
References	1819331	
Documents	71871	
International Co-Authorship	29.2 %	
Document Average Age	5.05	





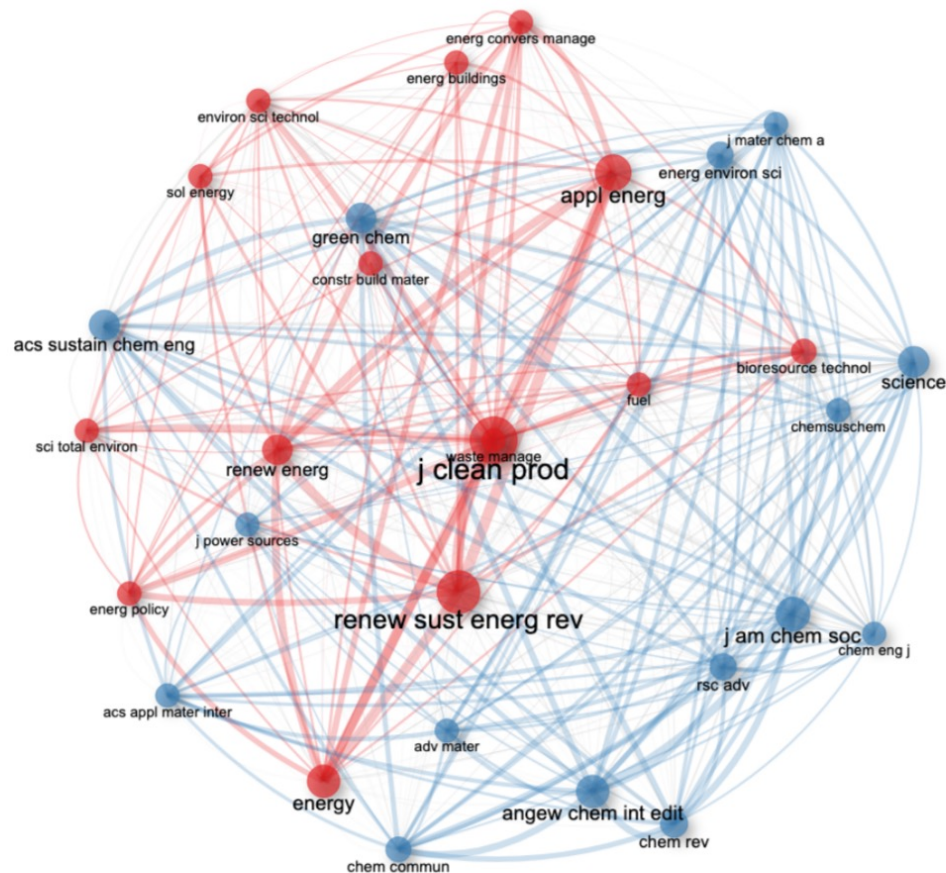
2008-2014 Journal co-citation



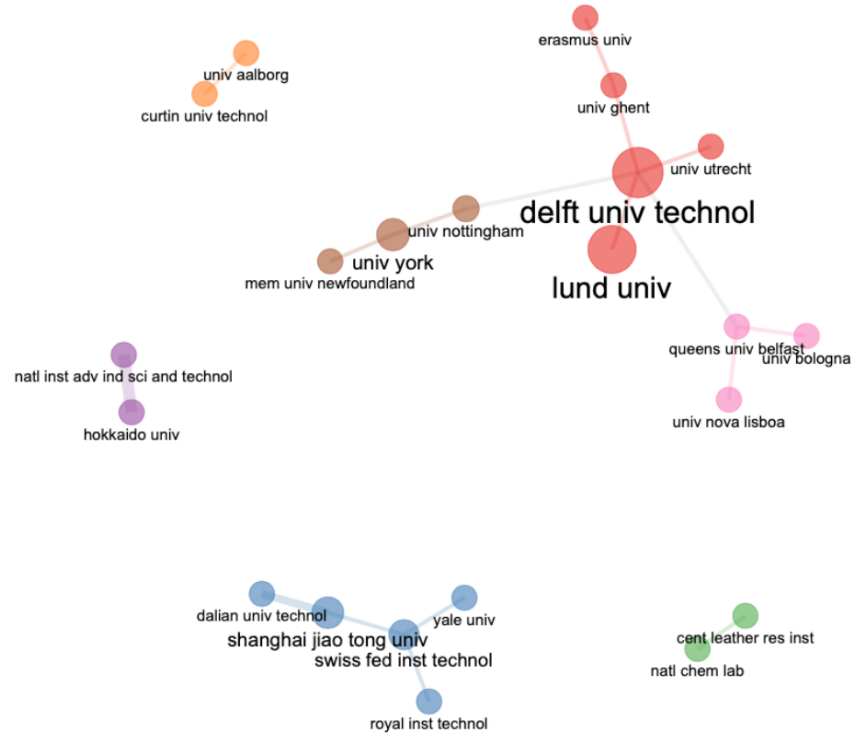
CHALMERS



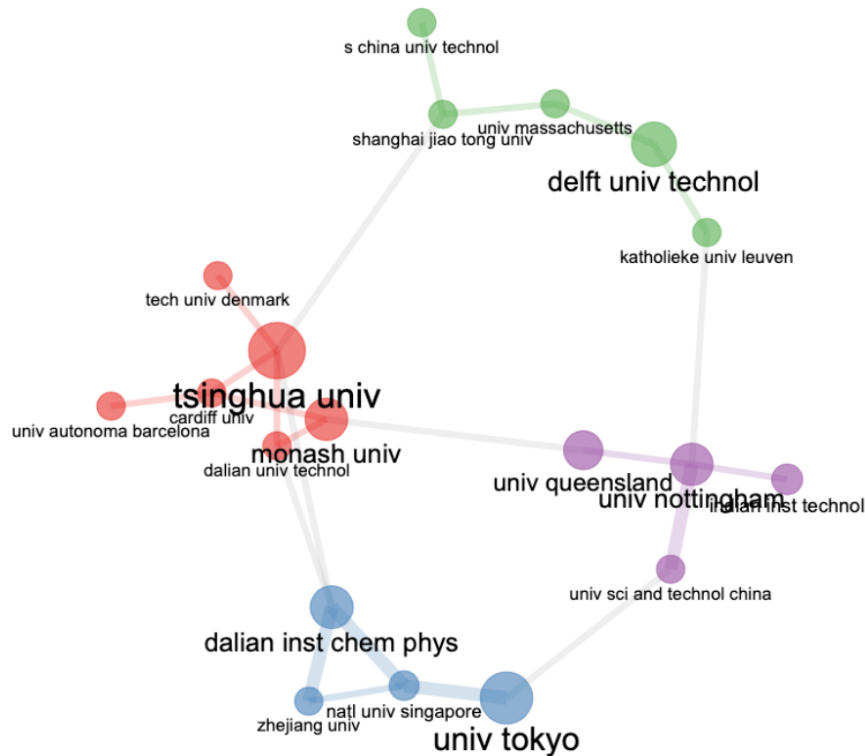
2015-2021 Journal co-citation



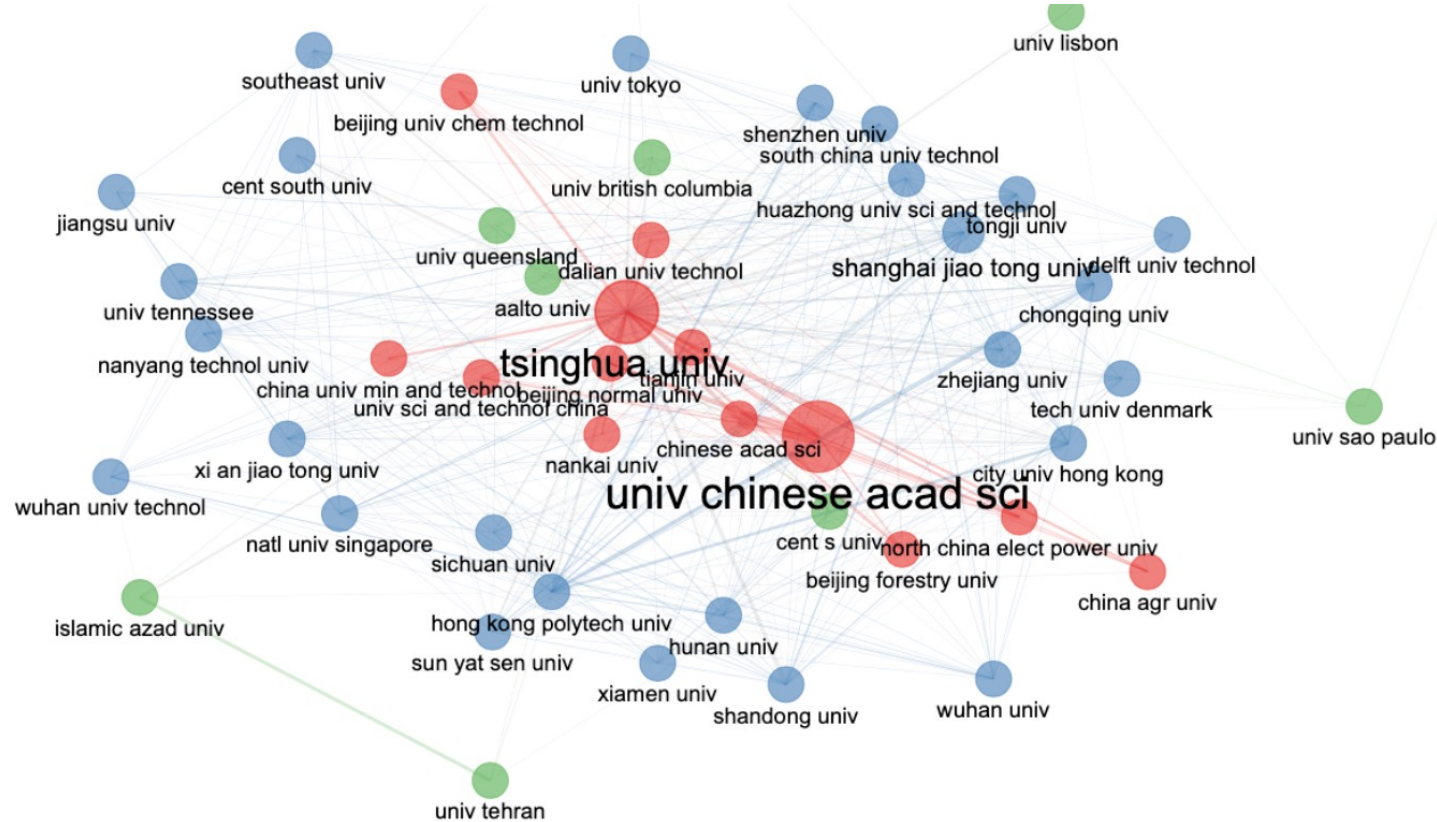
2001-2007 affiliation co-authorship



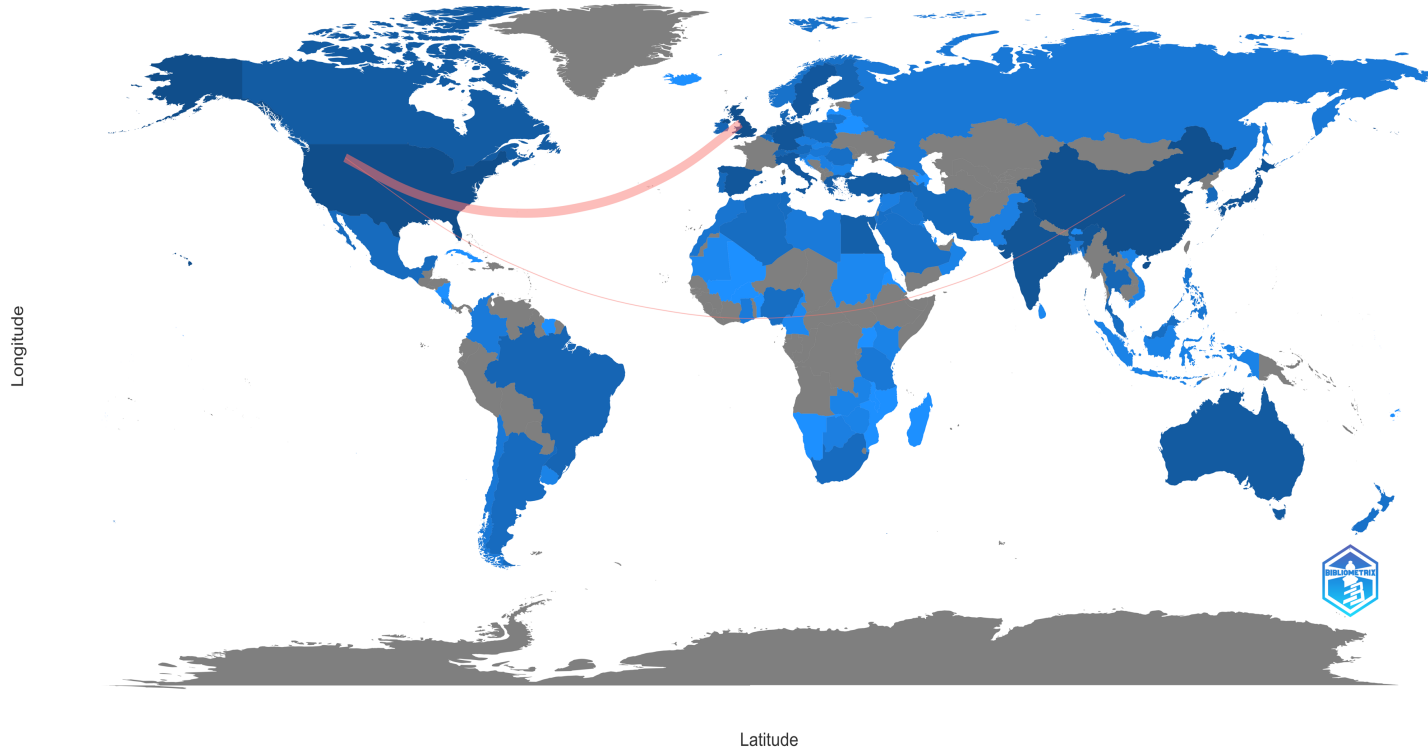
2008-2014 affiliation co-authorship



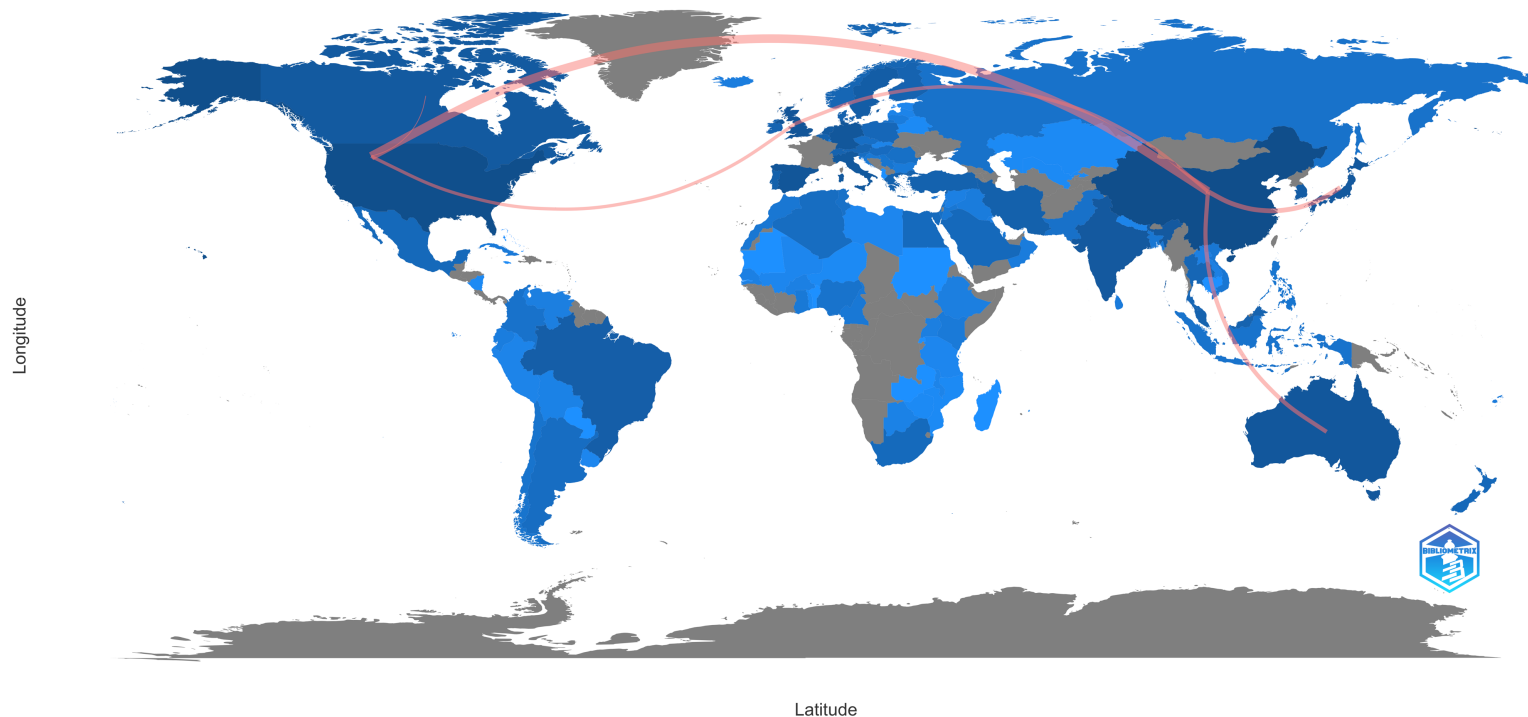
2015-2021 affiliation co-authorship



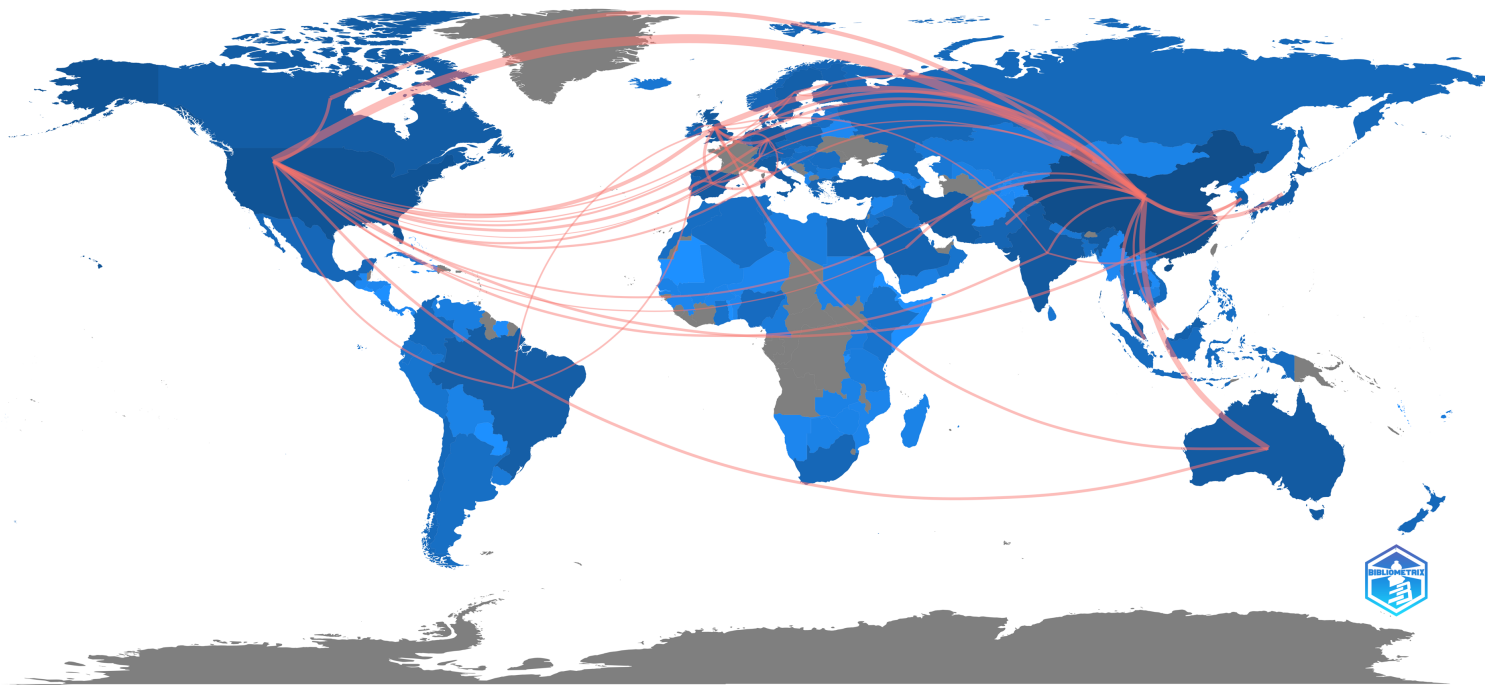
2001-2007 co-authorship map



2008-2014 co-authorship map



2015-2021 co-authorship map



Latitude

The typology of journals

- (a) The first type of journal is exemplified by *Sustainability Science*. The strategy is to promote through a journal the establishment of a transdisciplinary albeit relatively autonomous field.
- (b) The second type of journal corresponds to the strategy of creating publication venues less concerned with the foundation of a new scientific field compared with journals of type (a) but equally oriented towards the topic of sustainability in a broad meaning, *Nature Sustainability*, *Journal of Cleaner Production* and *Sustainable Development*.
- (c) Specialized journals make the third group, and the strategy is to treat "sustainability issues" within distinctive established disciplines. However, not all sciences appear to share this group, although sustainability issues ought to be relevant for all sciences (Nolin, 2021; White, 2013): *ACS Sustainable Chemistry and Engineering*, *Agronomy for Sustainable Development* and the more recent *IEEE Transactions on Sustainable Energy*.

References

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Questions & Comments

