# Mapping Open Science Research (MapOSR) - An Overview of Empirical Studies on Open Science

Short methodological description

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**For further project information see** <https://zenodo.org/communities/maposr>

**Identification of studies via databases and snow-ball queries**

Records identified from:

Web of Science (n=1770)

Scopus (n=1881)

Snowball-Query\* (n=126)

Studies include publications from 2000 to 2020

Records removed *before screening*:

Duplicate records removed

(n = 842)

**Identification**

Records screened\*\*

(n = 2935)

Records excluded

(n = 2101)

**Screening**

Records included in review

(n = 834)

**Included**

Records coded\*\*\*

695 eligible studies

Records excluded

(n = 139)

**Coding I & II**

**and II**

*Adapted from:*  Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. [doi: 10.1136/bmj.n71](https://www.bmj.com/content/bmj/372/bmj.n71.full.pdf) (CC BY)

\* A query was launched on Twitter and researchgate.net in June 2020 with the invitation to contribute to the collection of empirical studies on open science. The results were included in the project’s publicly available [Zotero-Library](NULL). The first entry is from 30.6.2020, the last from 16.3.2021.

\*\* Records where screened by the core project team in March and April 2021 according to the following set of criteria: A) Does the publication deal with any aspect of Open Science (excluding Open Educational Resources), B) is the open science-aspect focused on academy/research within academy (e.g. exclusion of topics such as open government data, industry-based research), C) does it include empirical studies with n equal/larger than 2 cases (empirical methods including surveys, bibliometric analysis, qualitative methods such as survey and interviews, experiments).

\*\*\* Coding phase 1 included the distribution of cases to the 9 (initially 11) team members together with the code book. Coding of 9x75 entries was concluded at the end of June 2021 according to 7 variables, the rest awaiting coding. A team-meeting in late June was used to discuss the coding experience and to adapt the code-book for further coding and to prepare coding phase 2, when a cross-check of coding is planned on the basis of randomly selected entries. The meeting was used to refine the understanding and applicability of variables and to exclude studies that do not fit into the search pattern or that turned out not to be empirical or insufficiently empirical. 2 team-members additionally coded the remaining studies. Coding Phase II for intercoder-reliability tests were conducted in January and February 2022.