

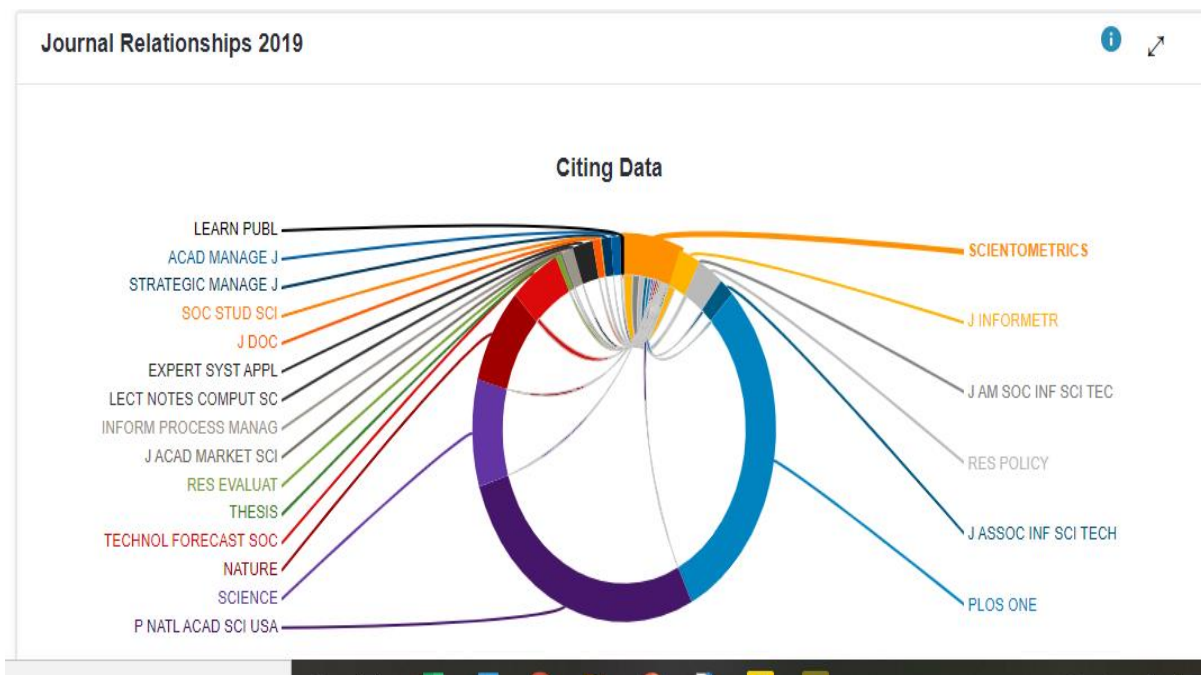
## APPENDIX B: Citation Topics, using the Micro Research Area **Bibliometrics**

JCR 1975 introduction: "A citation index is based on the principle that there is some meaningful relationship between one paper and some other that it cites or that cites it, and thus between the work of the two authors or two groups of authors who published the papers." (Garfield, provided by McVeigh).

**WOS** documents are placed into a fixed set of categories based on editorial decisions. *Scientometrics* is the consensus number one journal publishing articles on bibliometrics in WOS, Scopus and Dimensions in the WOS category of Information Science & Library Science.

**Journal Citation Reports** places journals into the same categories. It includes data and visuals on co-citations using the WOS subjects and citable documents, articles, reviews, and proceedings. The visual shows the co-citation relationship between a selected journal and the top journals that its authors cite. There is also a chart showing the top journals that cite the selected journal.

**Figure A.1:** Co-Citation Mapping from JCR 2019 for *Scientometrics*

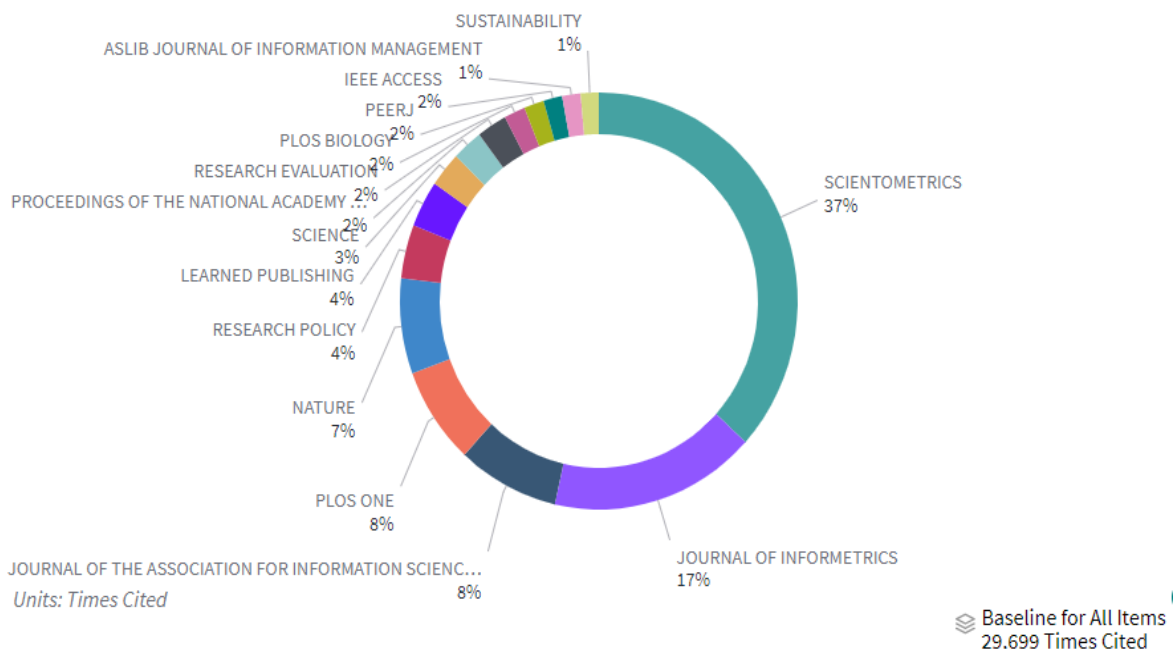


### Explanation for Journal Relationships

<http://help.incites.clarivate.com/incitesLiveJCR/JCRGroup/jcrJournalProfile/jcrJournalProfileEgoNetwork.html>

InCites bases **Citation Topics** on article level relationships identified by citations. It uses algorithms from article meta-data for the classification. The dataset was developed in collaboration with CWTS (Centre for Science and Technology Studies). It includes all types of documents that have citations. Over a third of the articles in Bibliometrics are in *Scientometrics*. J.M. Merigo, who is associated with the Business Schools at the Universidad de Chile, and University of Manchester and the School of Information Systems at University of Technology Sydney has the most citations. This is a positive example of Citation Topics since his work would not have appeared if the researcher only searched in Information/Library Science literature.

**Figure B.2: Top journals on bibliometrics based on the Citation Topics algorithm**



Potter describes the rationale for creating Citation Topics. Szomszor provides more technical details about Citation Topics compared to co-citations, pre-defined existing schema, and one-off searching which he explains as “**Supervised information retrieval** . . . , requires expertise in subject matter, is tedious and little used.” Green presents an in-depth presentation with visuals and tables.

The Micro topic Bibliometrics is part of the Meso topic Bibliometrics, Scientometrics, and Research Integrity which is under the Macro topic Social Sciences.

**Table B.1: Sample Hierarchy: Information Science and Library Science Topics**

Time Period: 2017-2019 x Schema: Citation Topics x Level: Micro x Research Area: 6.238.166 Bibliometrics x

	MACRO	Items	Cites		MICRO		
6	Social Sciences						
	<b>MESO</b>						
	Bibliometrics, Scientometrics & Research						
6.238	Integrity	9550	34911	6.238.166	Bibliometrics	7372	29699
				6.238.1700	Physican Scientists	1089	2465
				6.238.1790	Plagerism	1089	2747
6.288	Information & Library Science	1739	2053				
				6..288.1762	Interlending	429	698
				6.288.2091	Records Management	504	337
				6.288.2155	Digital Humanities	733	893
					Federal Deposit Library Program	73	125

From Incites, 27/2/2021

Social Science has 28 MESO level topics. In the hierarchy, there are several topics that are not related to the two information science topics are for all document types that were cited between

2017-2019. Clarivate's Customer support suggested this website, which lists all of the topics and includes an explanation of the methodology (version 3.3) Click here for the full schema: <https://incites.help.clarivate.com/Content/Research-Areas/citation-topics.htm?Highlight=hierarchy>. Articles are added during the year. The report will be updated annually.

**Summary:** I realize that AI is the future. The number of documents published in a year has grown five-fold between 1980, the first year that Citation Topics are calculated, until 2019. New metrics are needed to identify more complex relationships. If your topic happens to be one of the 2444 that have been created so far, and you have access to InCites, it is certainly worth your while to identify leading institutions, authors, etc. publishing in the topic. I on the other hand, am one of those who use the little-used method of creating my own search strategies.

With the addition of Citation Topics, the Web of Science platform now has four levels of classification: GIPP, six major research fields, Essential Science Indicators, with 22 subjects, JCR with 235, WOS with 254 and Incites Citation Topics with 2444.

#### RESOURCES:

GIPP Mapping Table

<https://incites.help.clarivate.com/Content/Research-Areas/ip-research-areas.htm>

Garfield, E. (15 Jul 1955). Citation indexes for Science: A new dimension in documentation through association of ideas. *Science*, (122) accessed at

<https://science.sciencemag.org/content/122/3159/108>

Garfield, E. (1974). ISI is studying the structure of science through co-citation analysis. *Current Contents*, Issue 7, 5-6.

Green, B. (Jan 2021). Incites Citation Topics

<https://wok.mimas.ac.uk/support/documentation/presentations/citationtopics202101.pdf>

McVeigh, M. (1 Mar 2021). Email discussing citation pairing and clustering.

Potter, I. (3 Dec 2020) Introducing Citation Topics in Incites. Web of Science Blog accessed at

[https://clarivate.com/webofsciencegroup/article/introducing-citation-topics/?utm\\_campaign=EM1\\_Incites\\_Citation\\_Topics\\_Announcement\\_SAR\\_Global\\_2020&utm\\_medium=email&utm\\_source=Eloqua](https://clarivate.com/webofsciencegroup/article/introducing-citation-topics/?utm_campaign=EM1_Incites_Citation_Topics_Announcement_SAR_Global_2020&utm_medium=email&utm_source=Eloqua)

Small, H. (1974). Co-citation in the scientific literature: A new measure of the relationship between two documents. *Journal of the American Society of Information Science & Technology*, 24(July/Aug) 265-269.

Szomszor, M, Et Al (Feb 2021). Data categorization: understanding choices and outcomes. *Global Research Report*, ISI. [https://clarivate.com/webofsciencegroup/wp-content/uploads/sites/2/dlm\\_uploads/2021/02/ISI-GRR-2021-Data-categorization-understanding-choices-and-outcomes.pdf](https://clarivate.com/webofsciencegroup/wp-content/uploads/sites/2/dlm_uploads/2021/02/ISI-GRR-2021-Data-categorization-understanding-choices-and-outcomes.pdf)

Van Eck, N.J. and Waltman, L. (May 2017). Citation-based-clustering of publications using CiNetExplorer and VOSviewer. *Scientometrics*, 111(2),

<https://link.springer.com/article/10.1007/s11192-017-2300-7>