



رصد تکنولوژی با استفاده از علم سنجی

Scientometrics Analysis at NRI

با تشکر از آقای دکتر مرجایی

Agenda

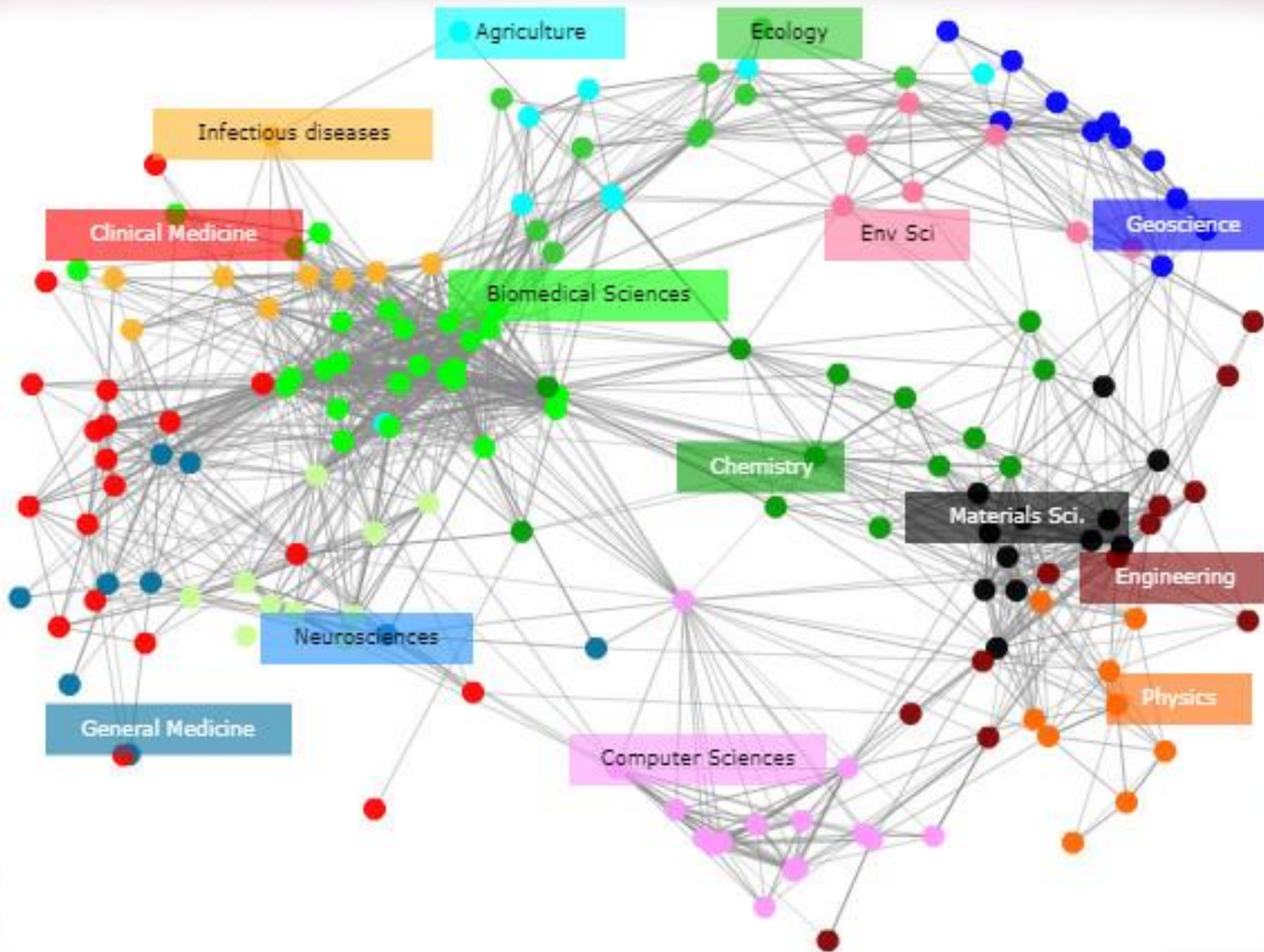
علم سنجی چیست؟

استفاده از علم سنجی در رصد تکنولوژی

یک پروژه نمونه: شبکه های اجتماعی

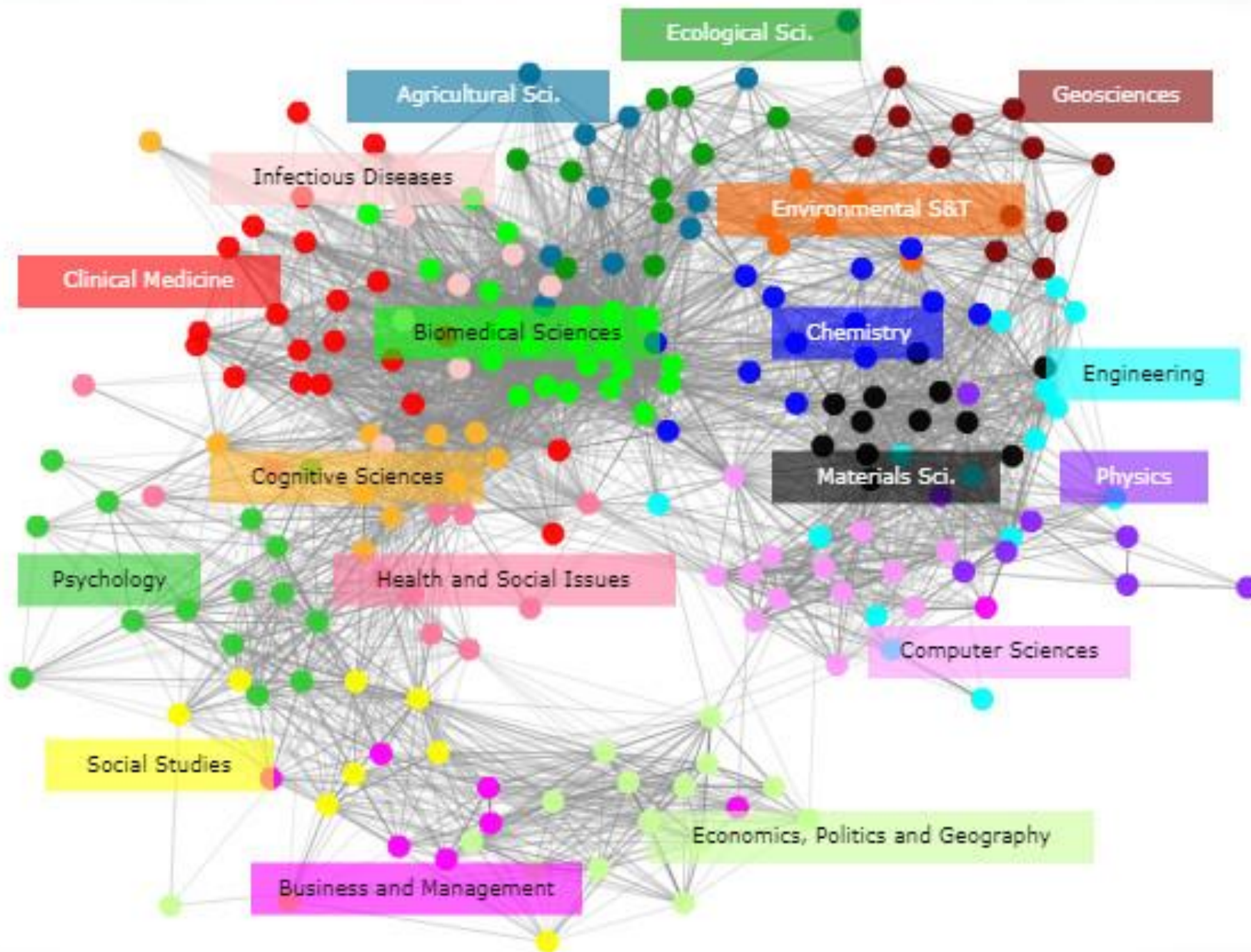
What is Scientometrics?

Scientometrics is the study of **measuring** and **analyzing science, technology** and **innovation**.



Global science map based on citing cosine similarities among ISI Subject Categories(2007).

Source:
Rafols, Porter and Leydesdorff (2007)



Global map based on citing similarities among ISI Subject Categories (2006). Only sciences and engineering (SCI).

Source:
Leydesdorff and Rafols (2009)

یک پروژہ نمونہ

رصد تکنولوژی شبکه های اجتماعی

Query

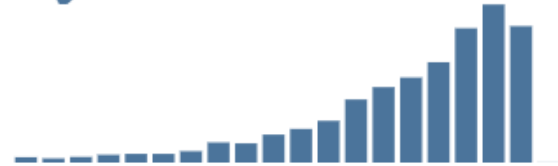
- **Results:** **3,344** *from Web of Science Core Collection*
- **Criteria:**
 - **TITLE:** ("social network")
 - **LANGUAGES:** (ENGLISH)
 - **DOCUMENT TYPES:** (ARTICLE OR BOOK CHAPTER OR PROCEEDINGS PAPER OR REVIEW)
- **Timespan:** All years

Key Indicators

Total Publications



3,444



1999

2018

h-index



112

Average citations per item



20.47

Sum of Times Cited



70,492

Without self citations



65,383

Citing articles



50,506

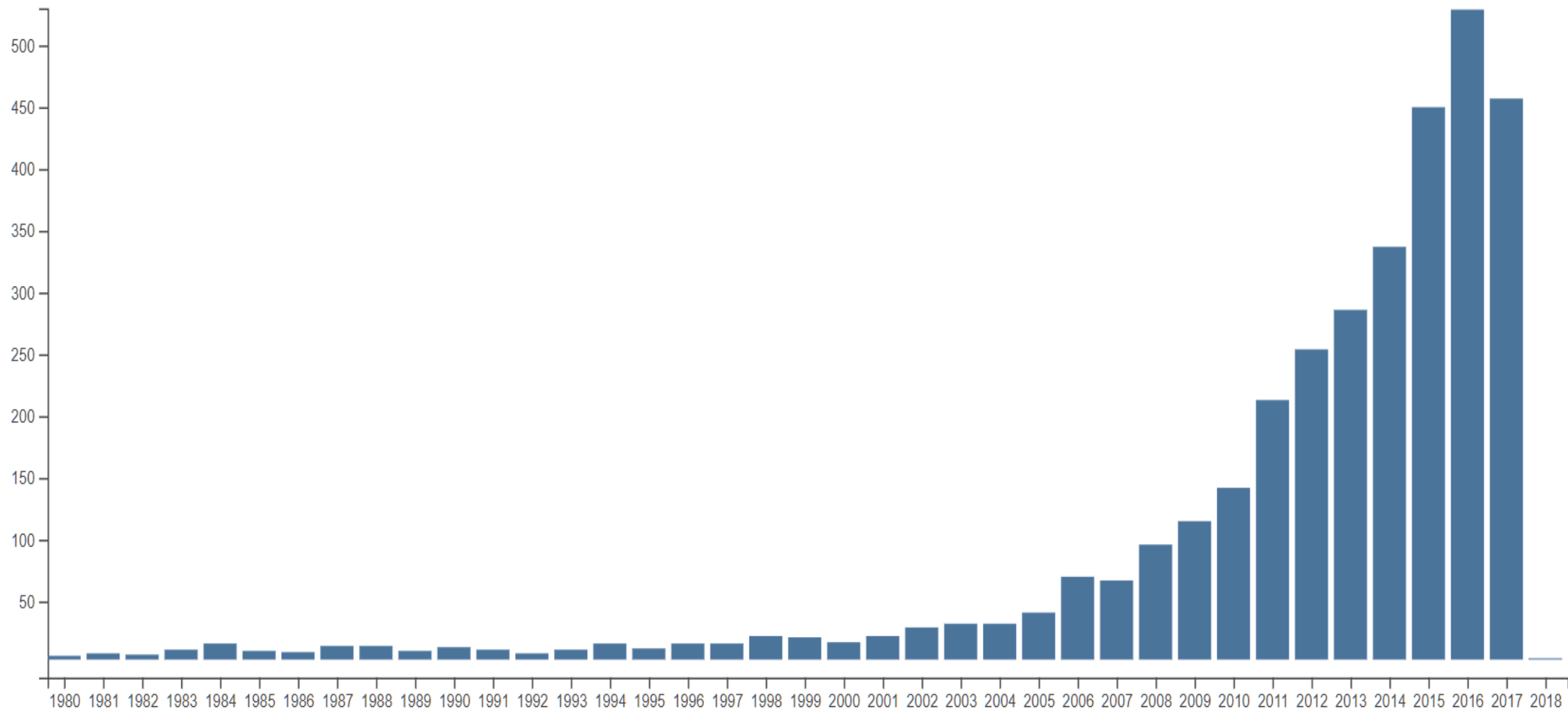
Without self citations



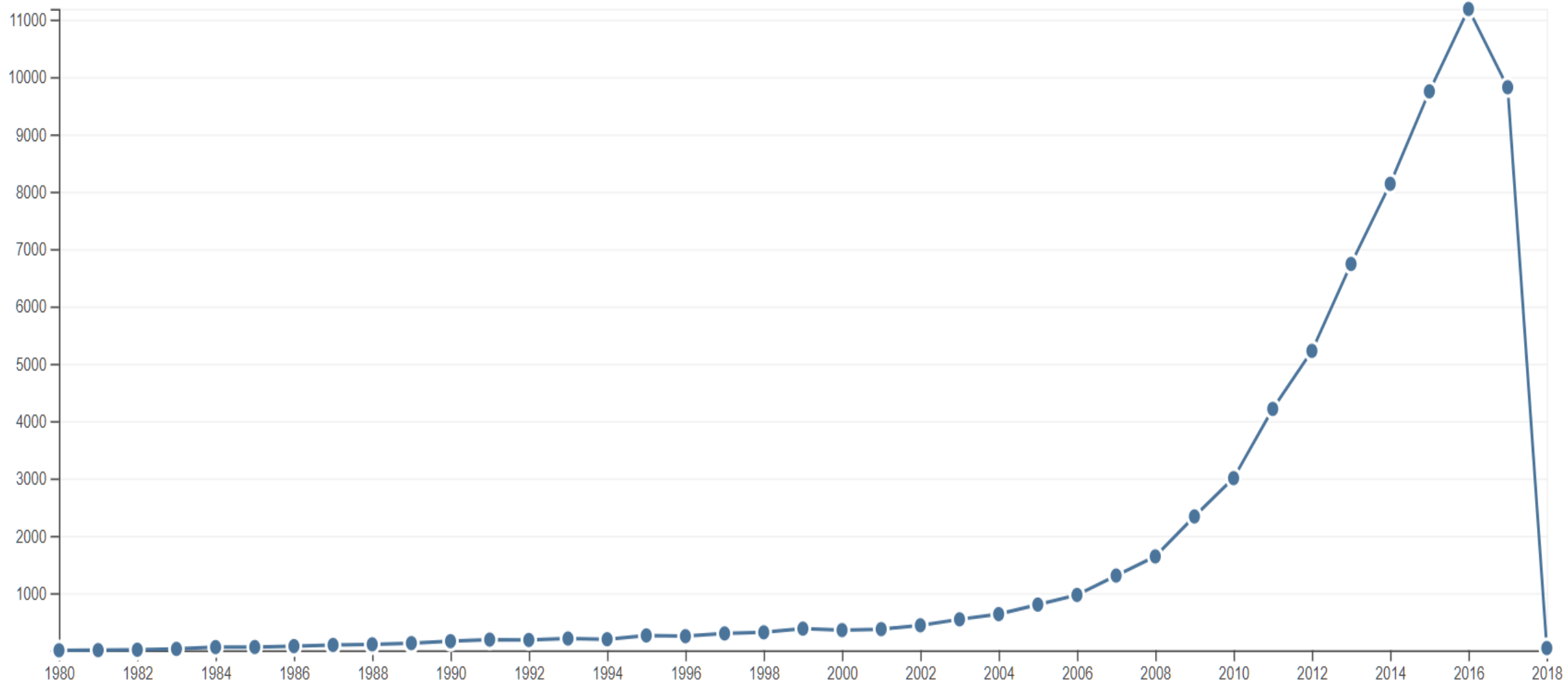
48,542

Total Publications

3,444



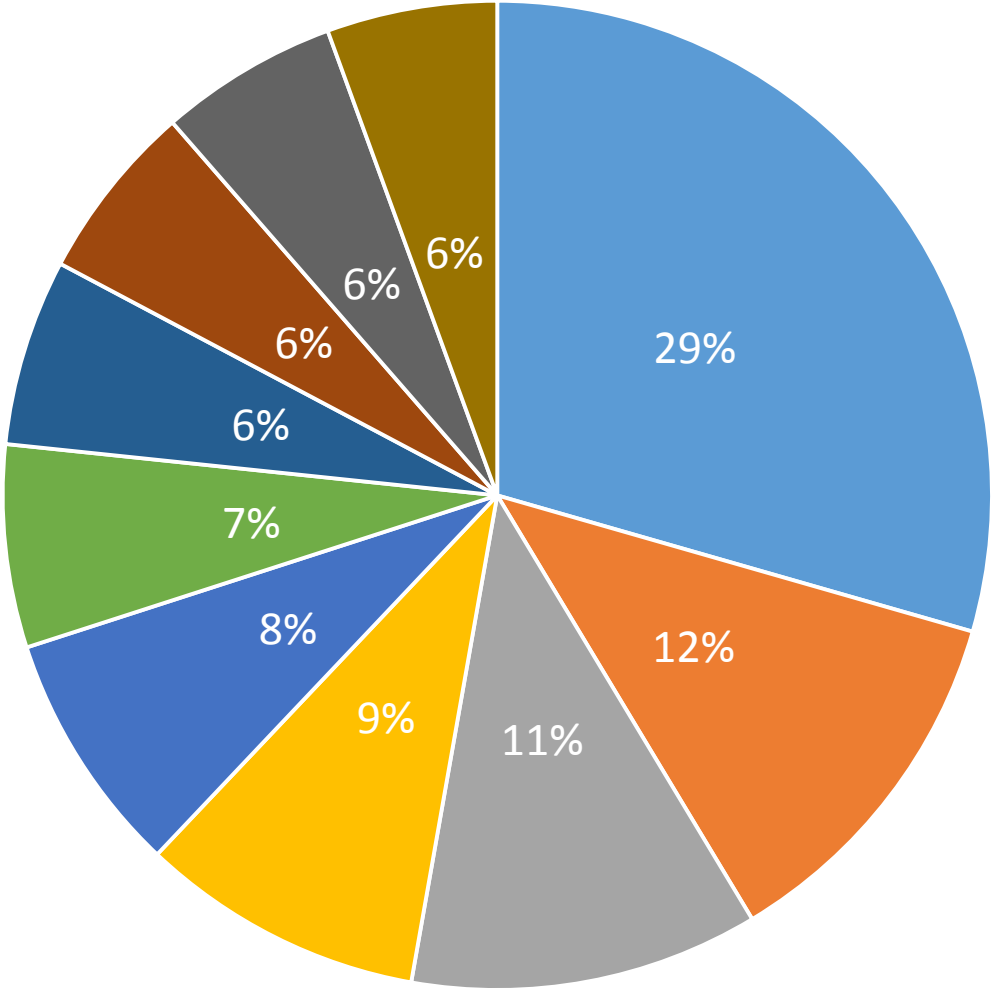
Sum of Times Cited per Year



Top 10 Authors

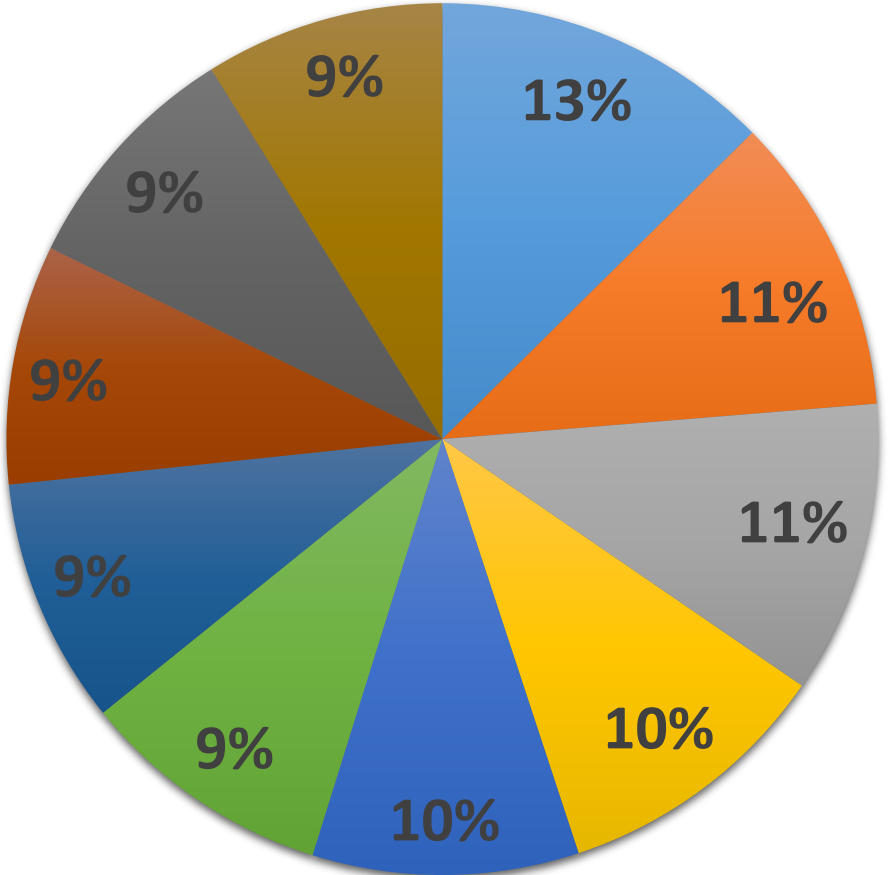
- LATKIN CA
- CHRISTAKIS NA
- FOWLER JH
- LITWIN H
- VALENTE TW
- DOREIAN P
- HANSON BS
- RICE E
- DUNBAR RIM
- GRABOWSKI A

Top 10 Funding Agencies



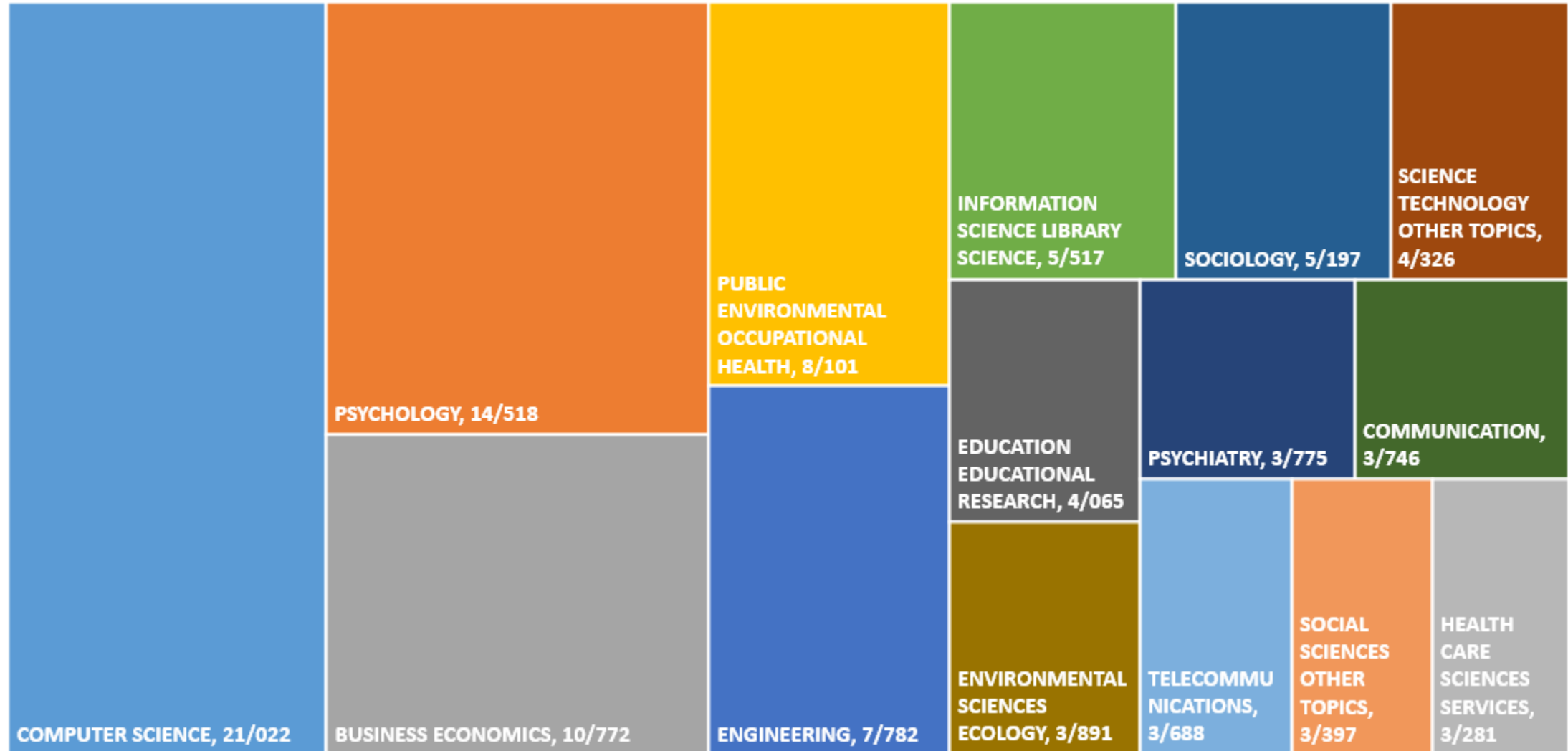
- NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA
- NIDA NIH HHS
- NATIONAL SCIENCE FOUNDATION
- NSF
- NIMH NIH HHS
- NIH
- NATIONAL INSTITUTES OF HEALTH
- NATIONAL INSTITUTE ON DRUG ABUSE
- NIA NIH HHS
- NATIONAL INSTITUTE OF MENTAL HEALTH

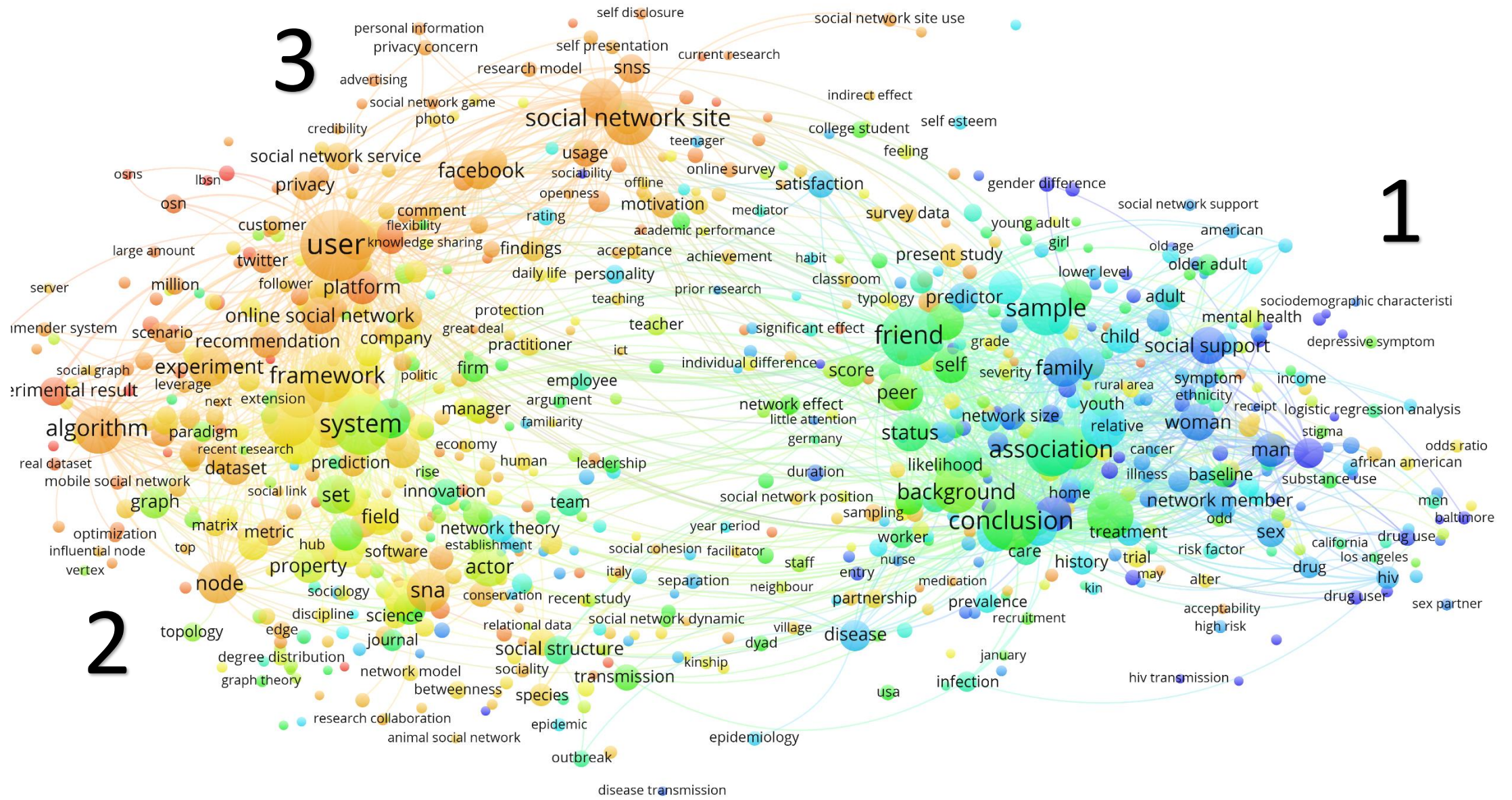
Top 10 Affiliations



- HARVARD UNIV
- UNIV N CAROLINA
- UNIV MICHIGAN
- UNIV ILLINOIS
- PENN STATE UNIV
- UNIV CALIF SAN DIEGO
- UNIV WASHINGTON
- ARIZONA STATE UNIV
- MICHIGAN STATE UNIV
- UNIV MARYLAND

Research Areas

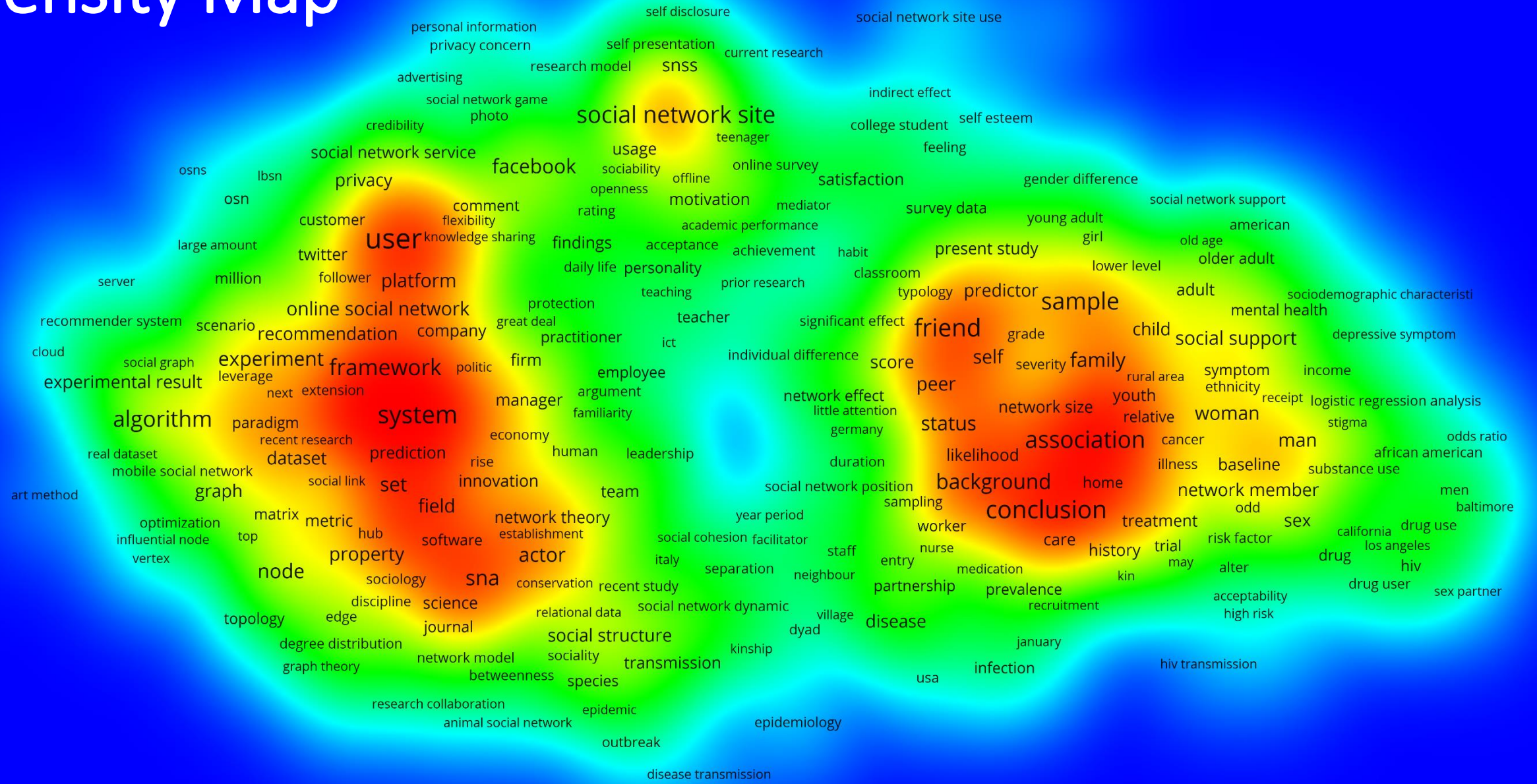




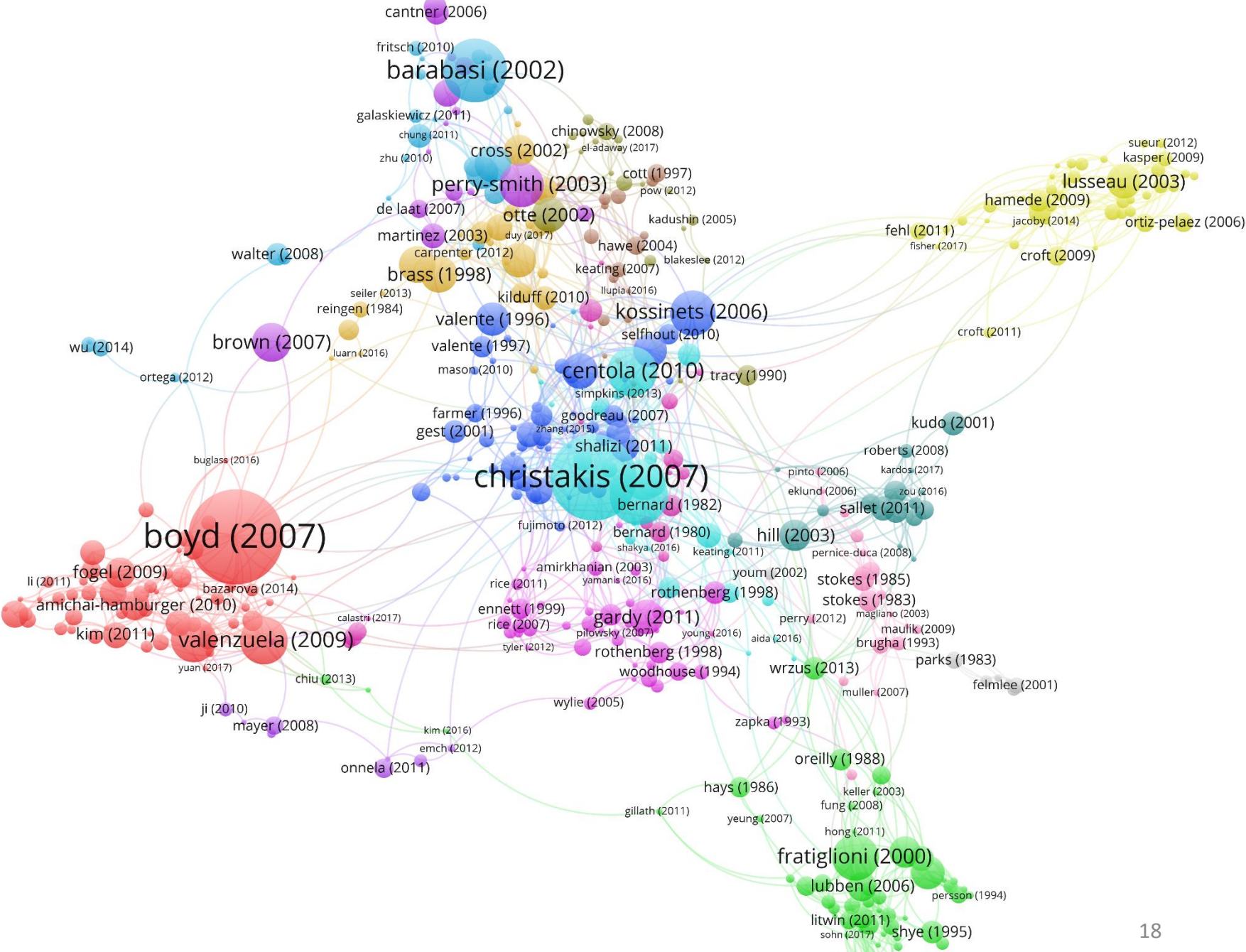
Time Overlay Map



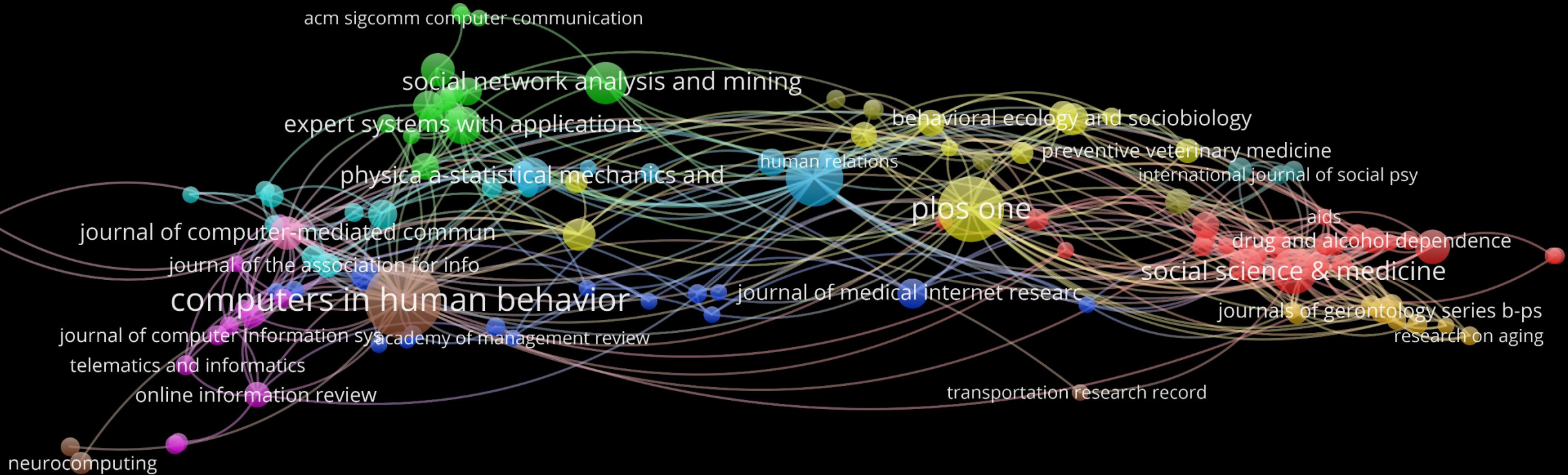
Density Map



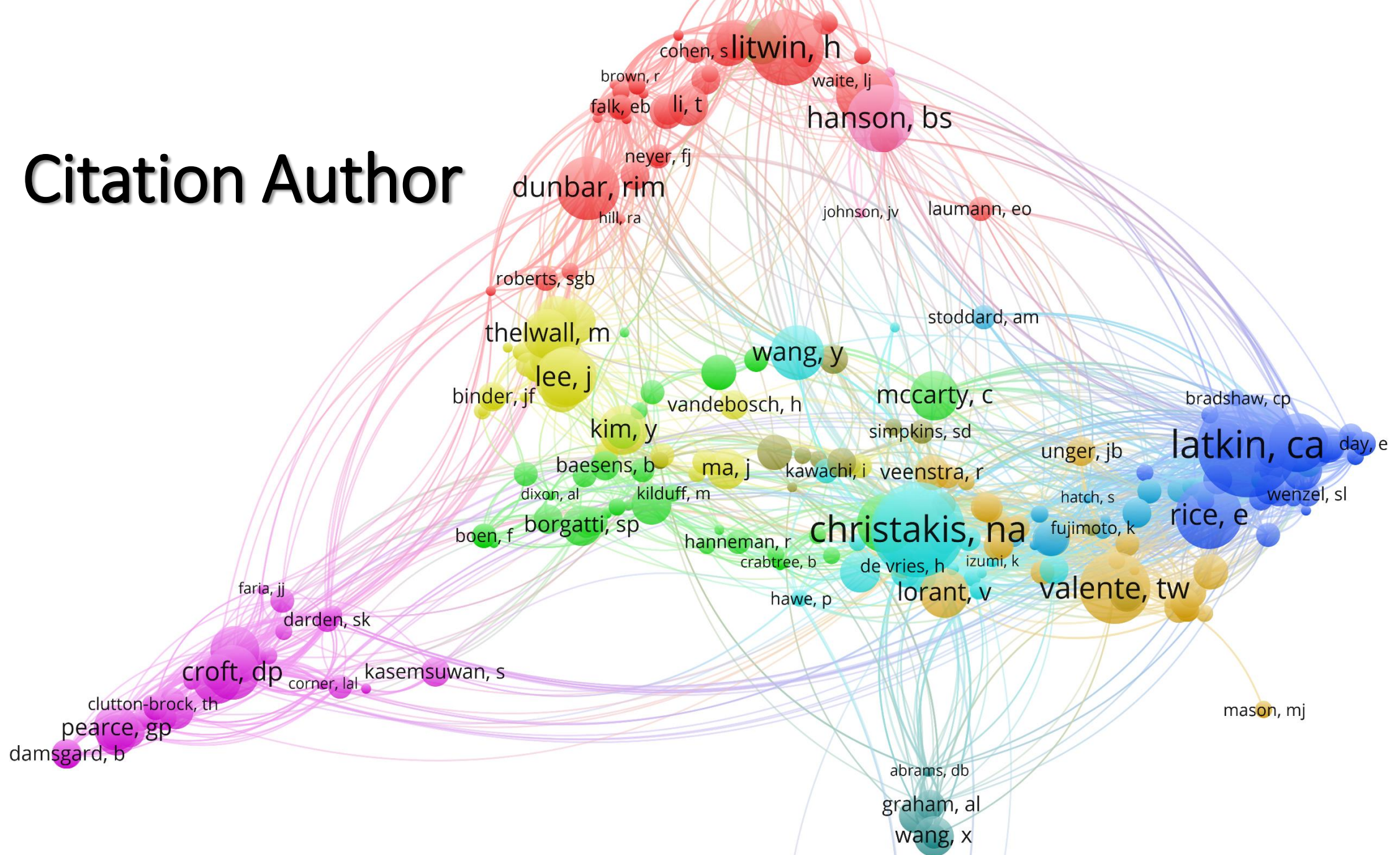
Document Citation Network



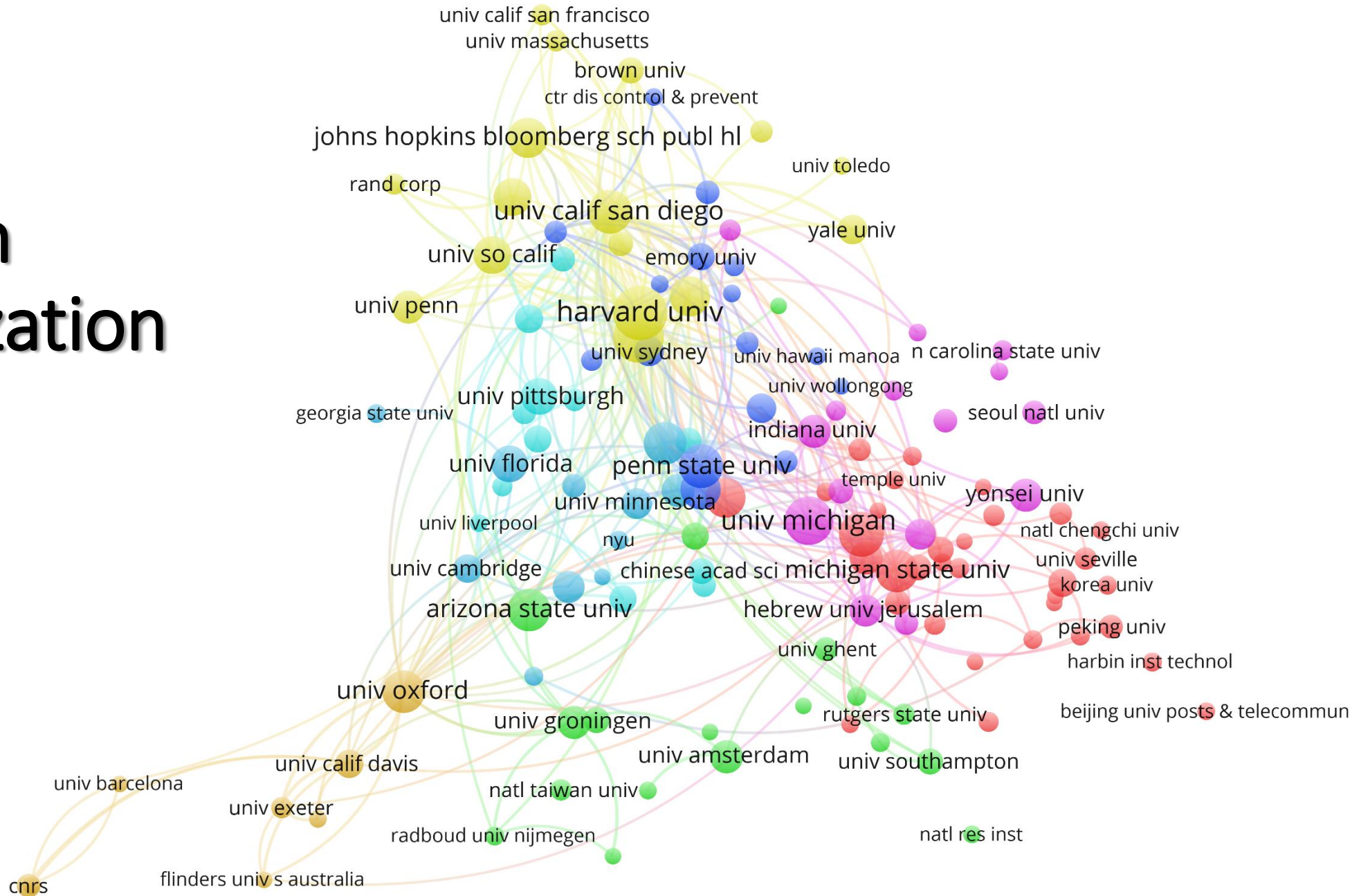
Source – Citation Network



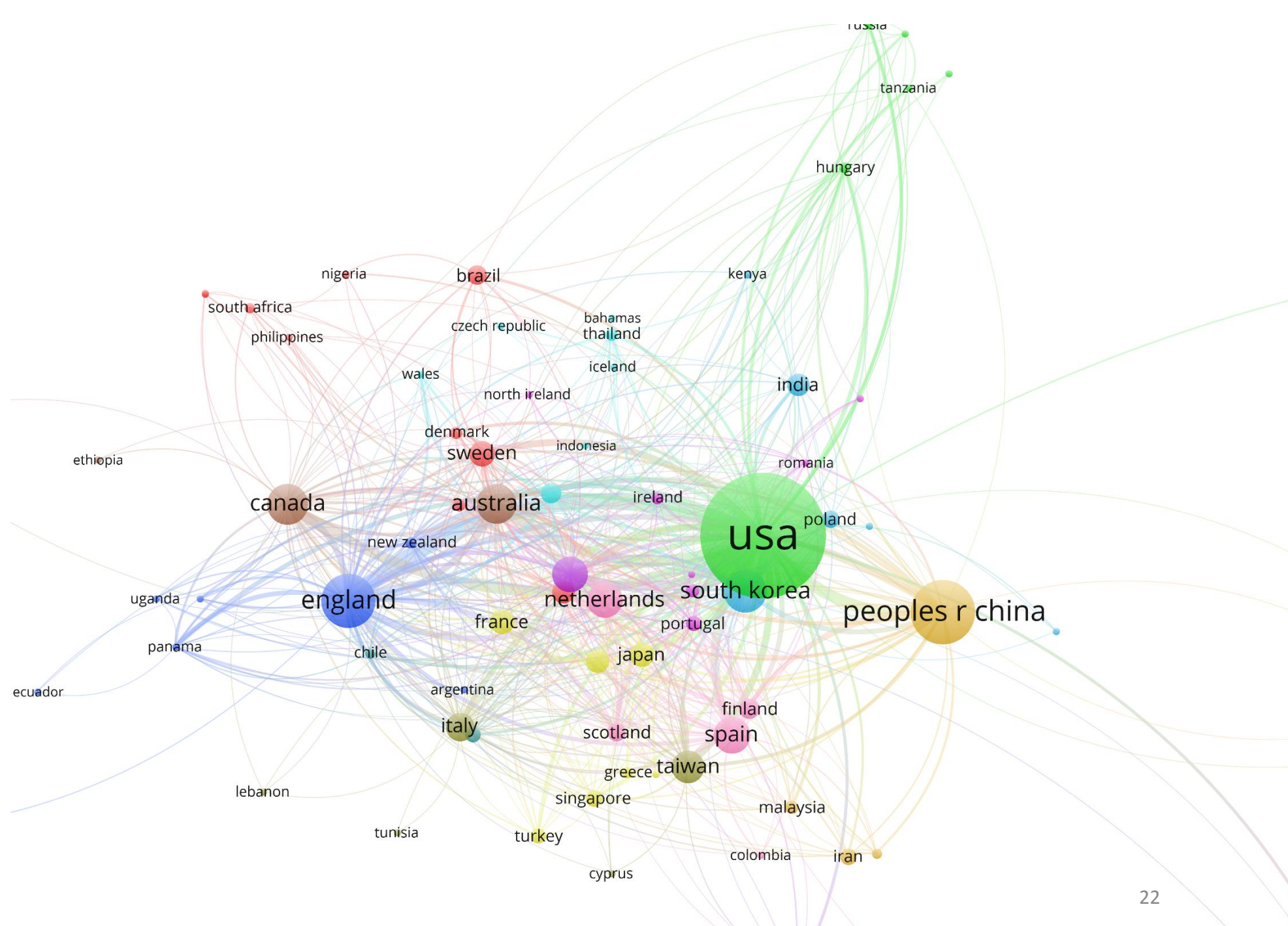
Citation Author



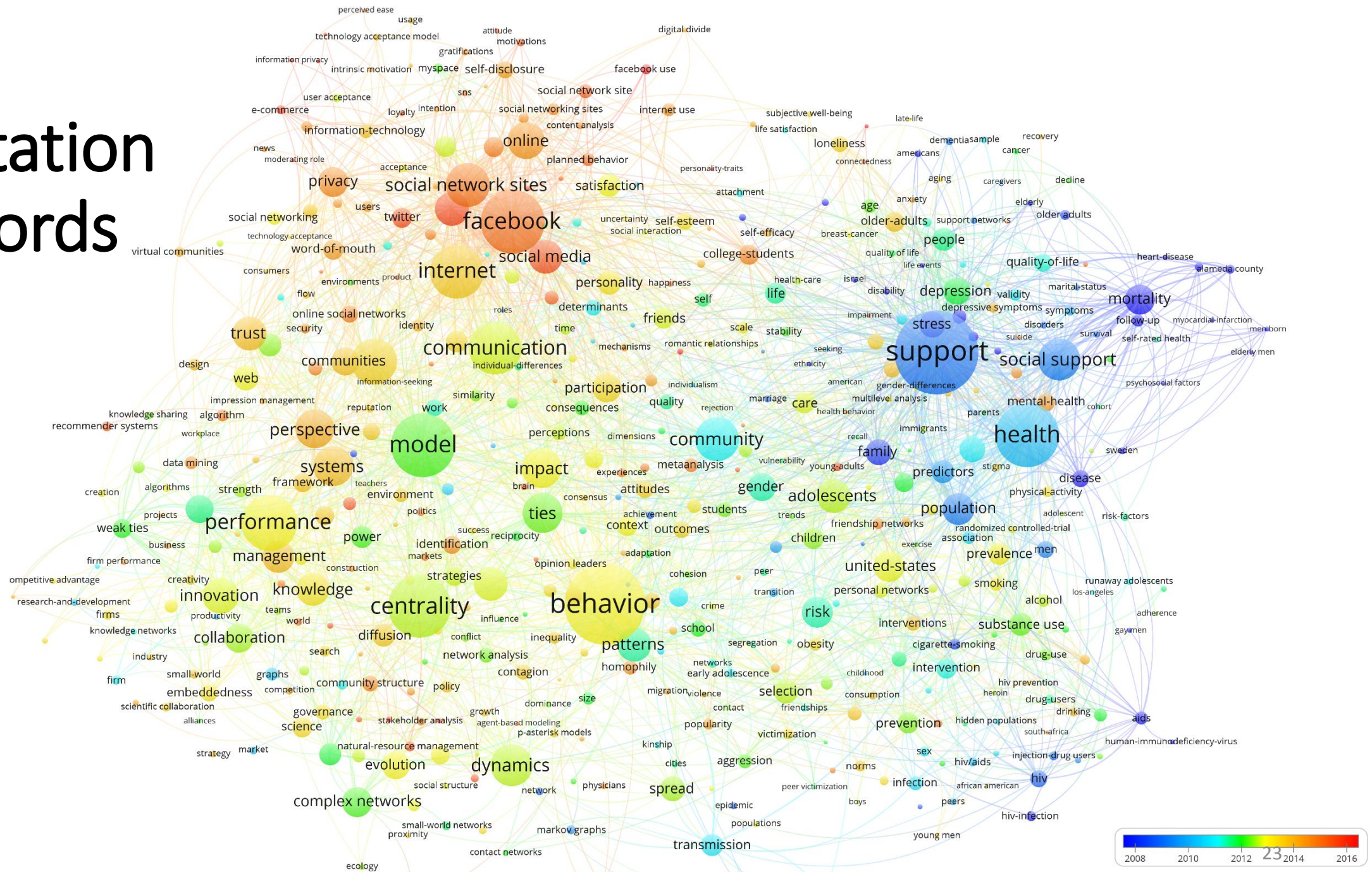
Citation Organization



Citation Country



Co-citation Keywords



Thank You

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