

First paper: Dynamics of the Carbon Dioxide Removal Literature: A Bibliometric Analysis

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Motivations

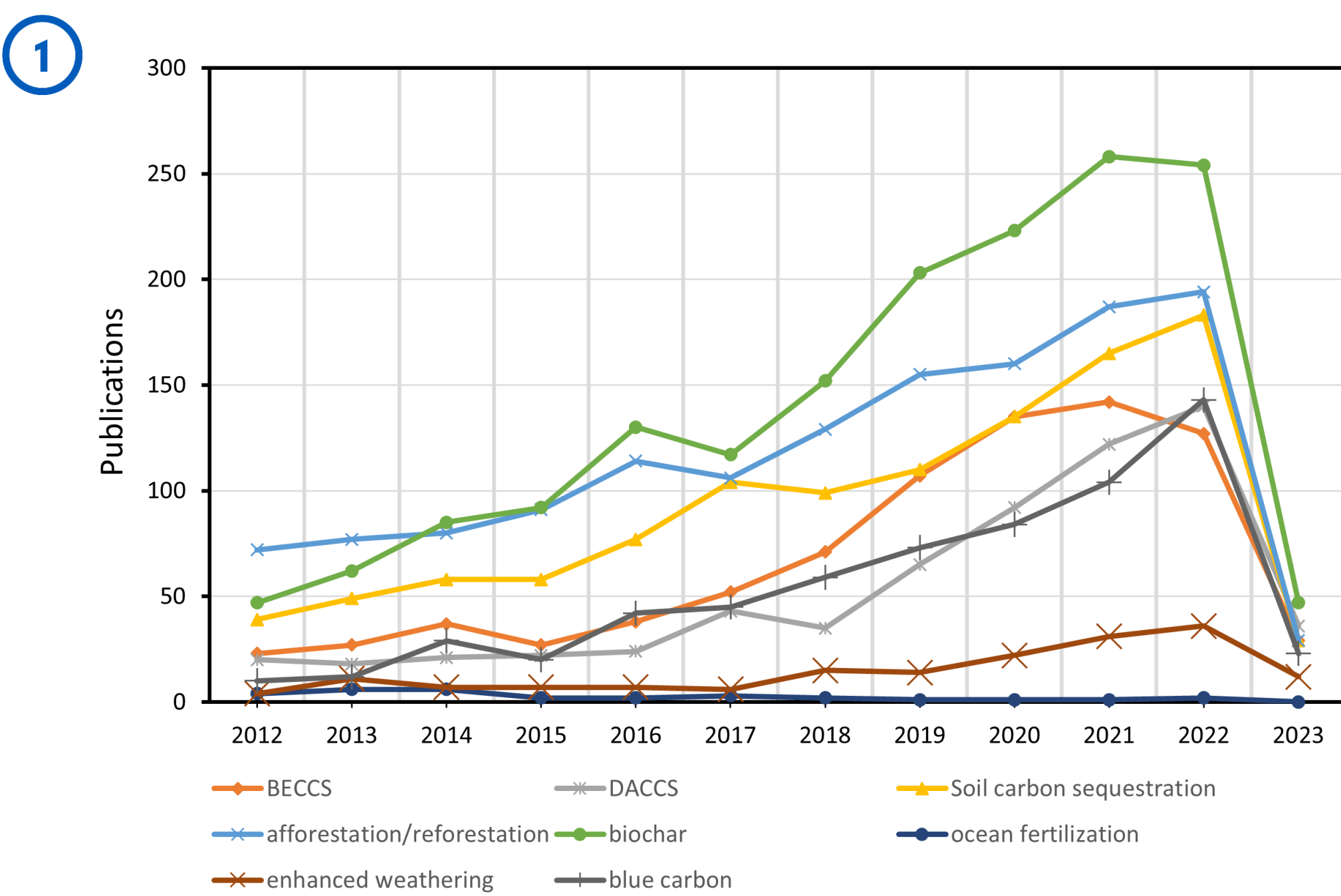
An increasing attention towards CDR technologies
→ Difficult to **grasp** the **focus** of CDR research

- What are the **trends** and **focus** of the **Carbon Dioxide Removal (CDR)** literature ?
- Is the CDR research international community **cooperating** ? If yes, how ?
- Is the literature articulated around **communities** ?
- Which documents have **influenced** the literature ?

Methods

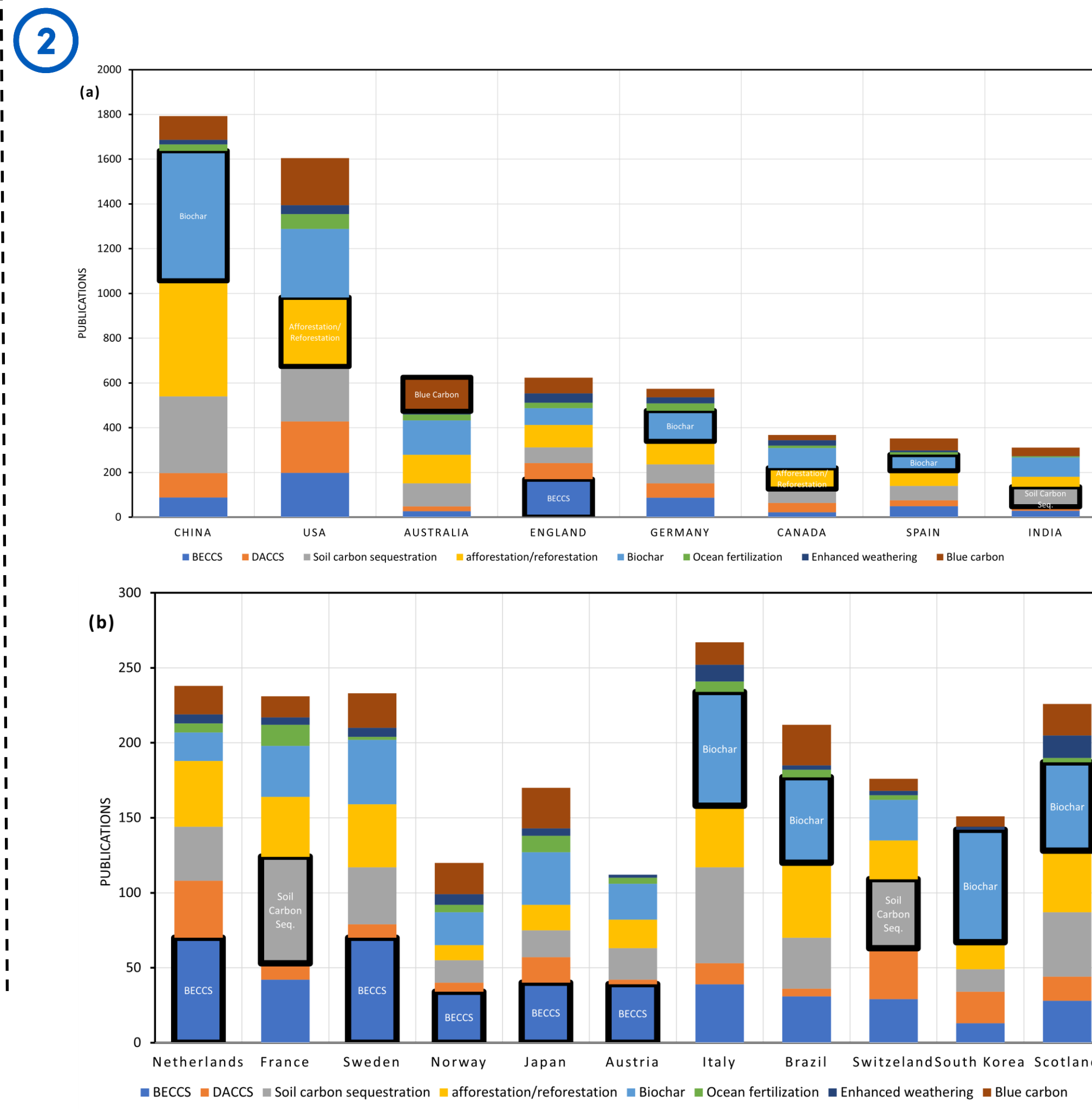
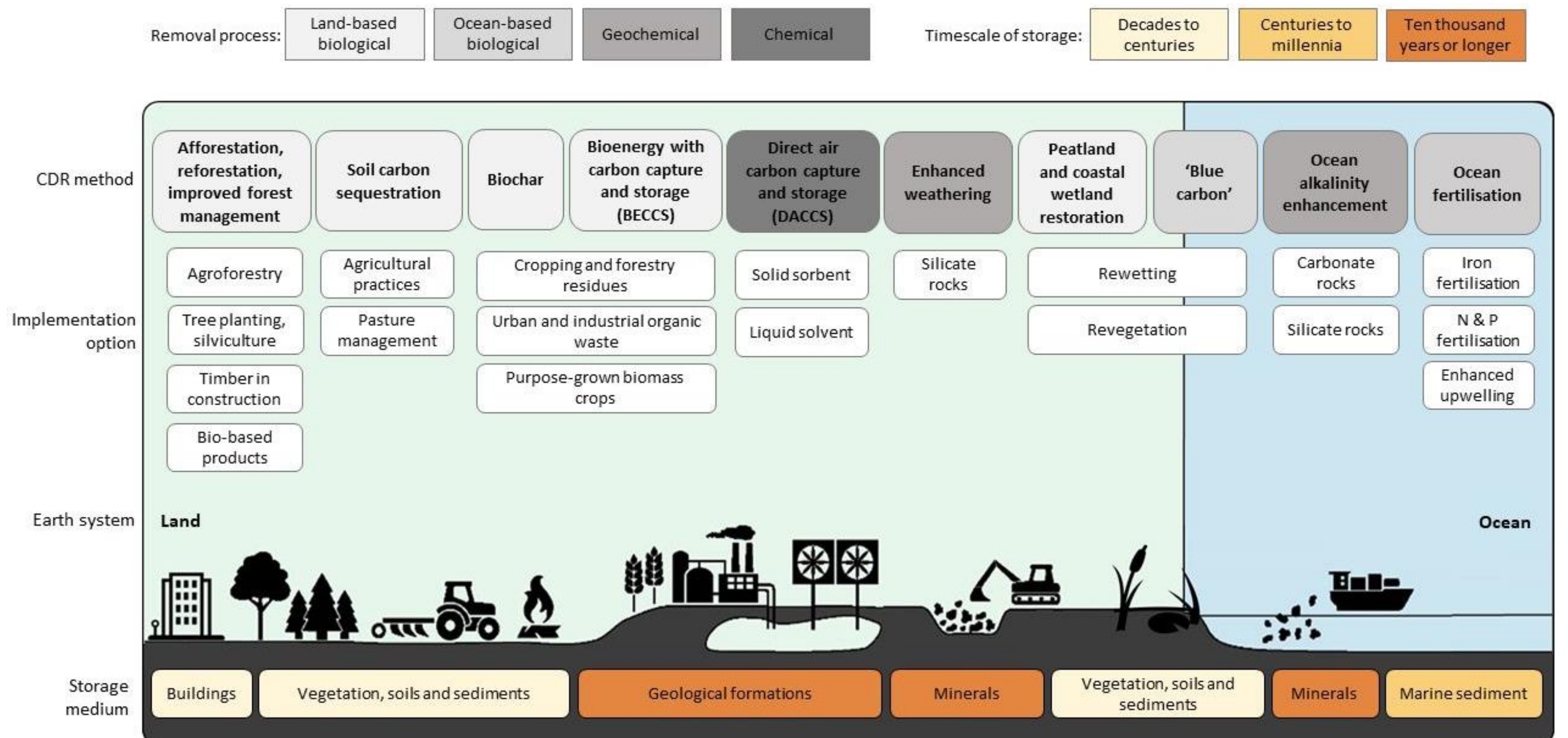
Bibliometric analysis

- Collecting data on Web of Science
→ 6,502 articles from 2012 to 2023
- Scientometric software
→ R, Bibliometrics, Bibliometrix, CiteSpace
- Visually analyze
→ Trends, focus, disciplines co-occurrence, publication characteristics, partnerships, communities and influences



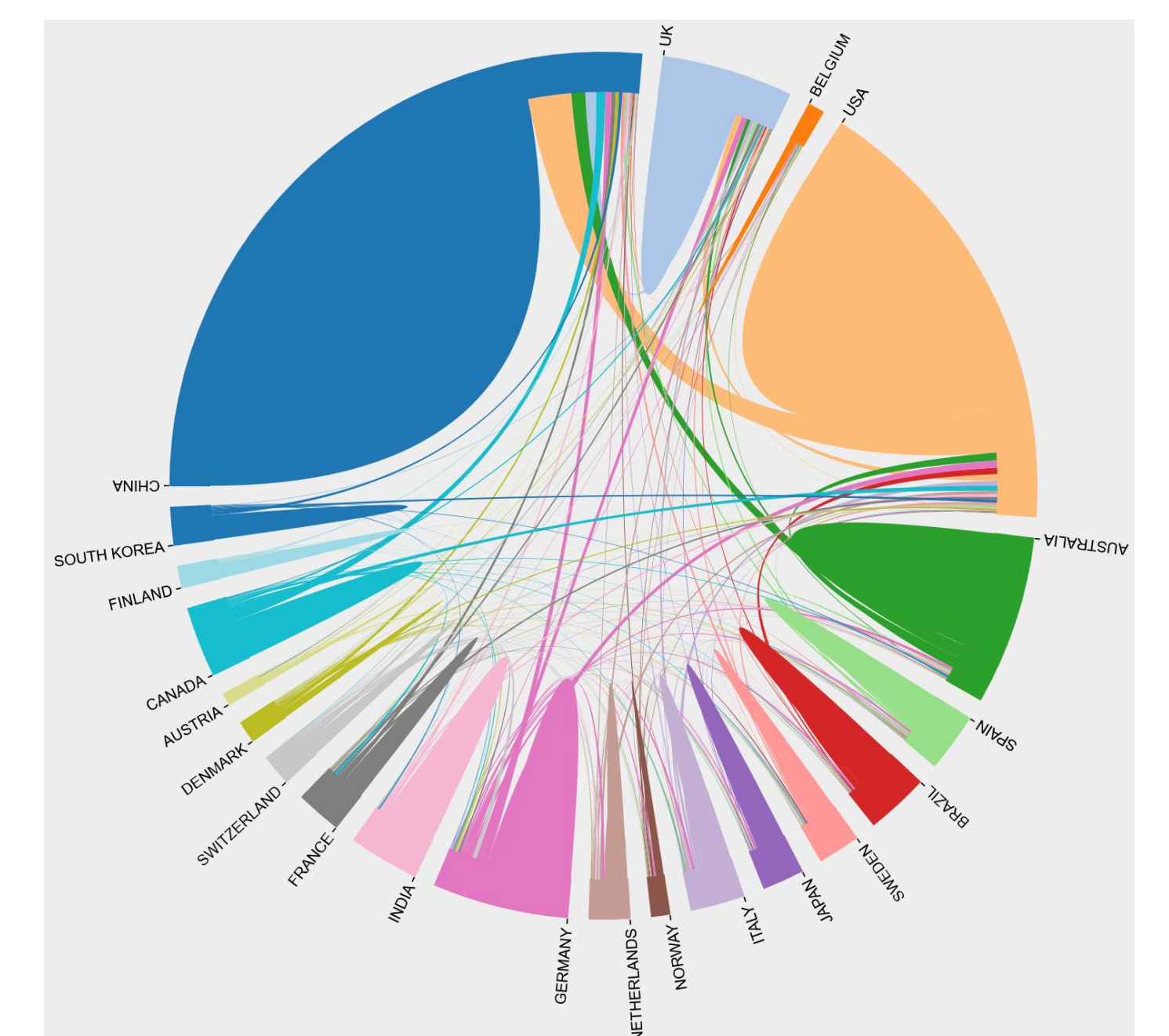
What are CDR technologies ?

Source: [Working Group III contribution to the IPCC AR6, 2022](#)

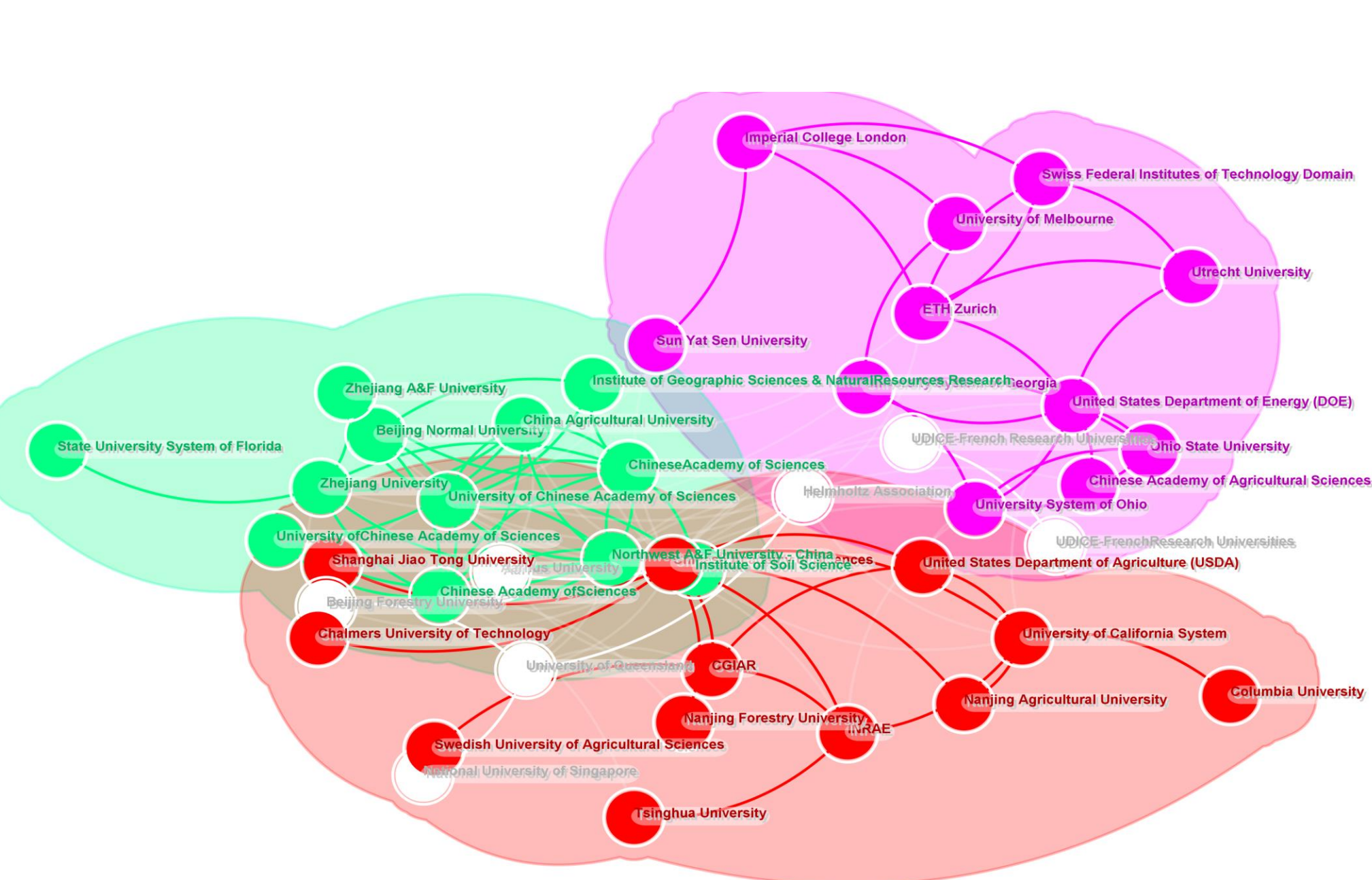


③ Country Cooperation

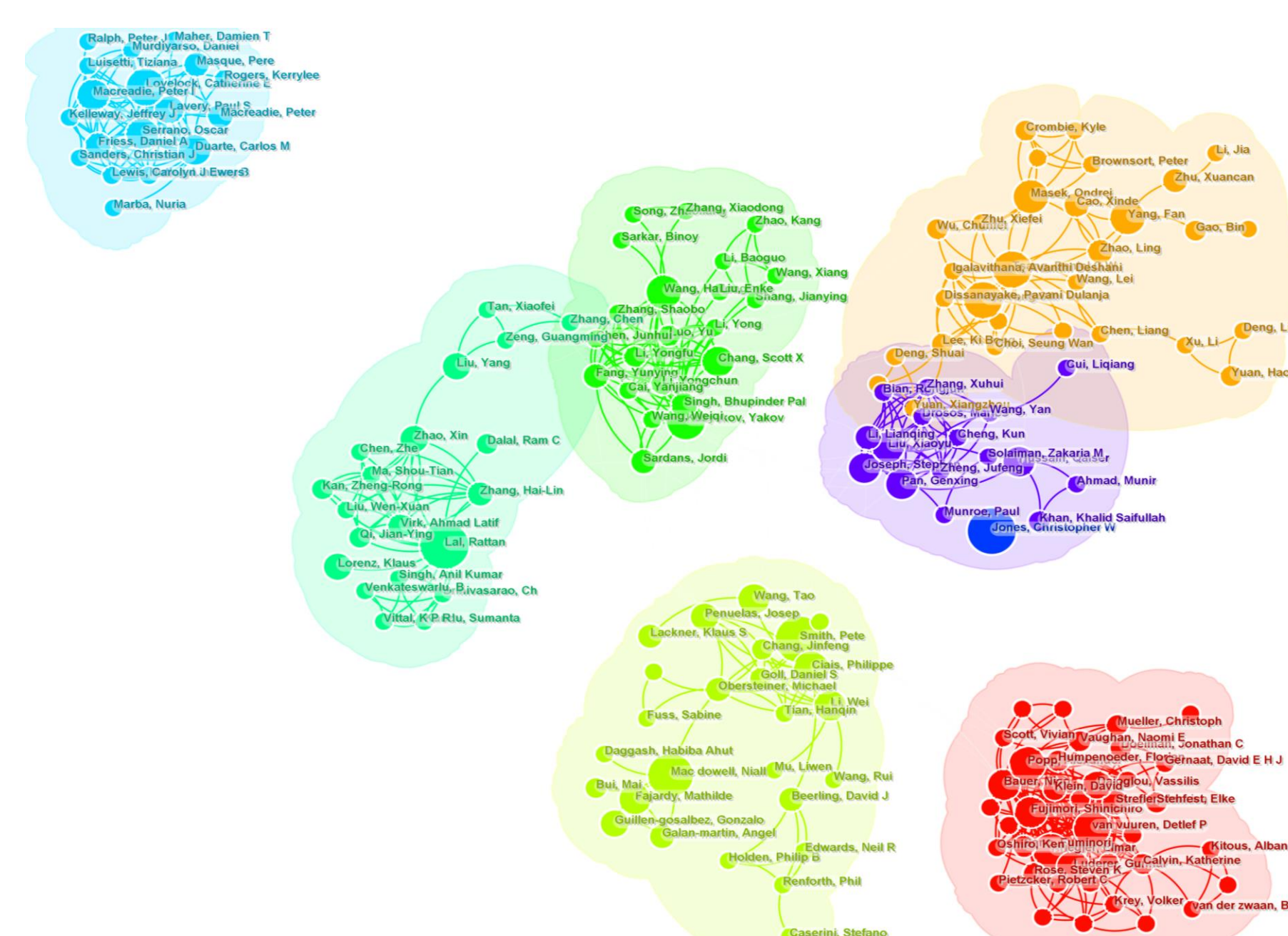
A cooperation is said established when 2 institutions from 2 different countries appear in a single publication



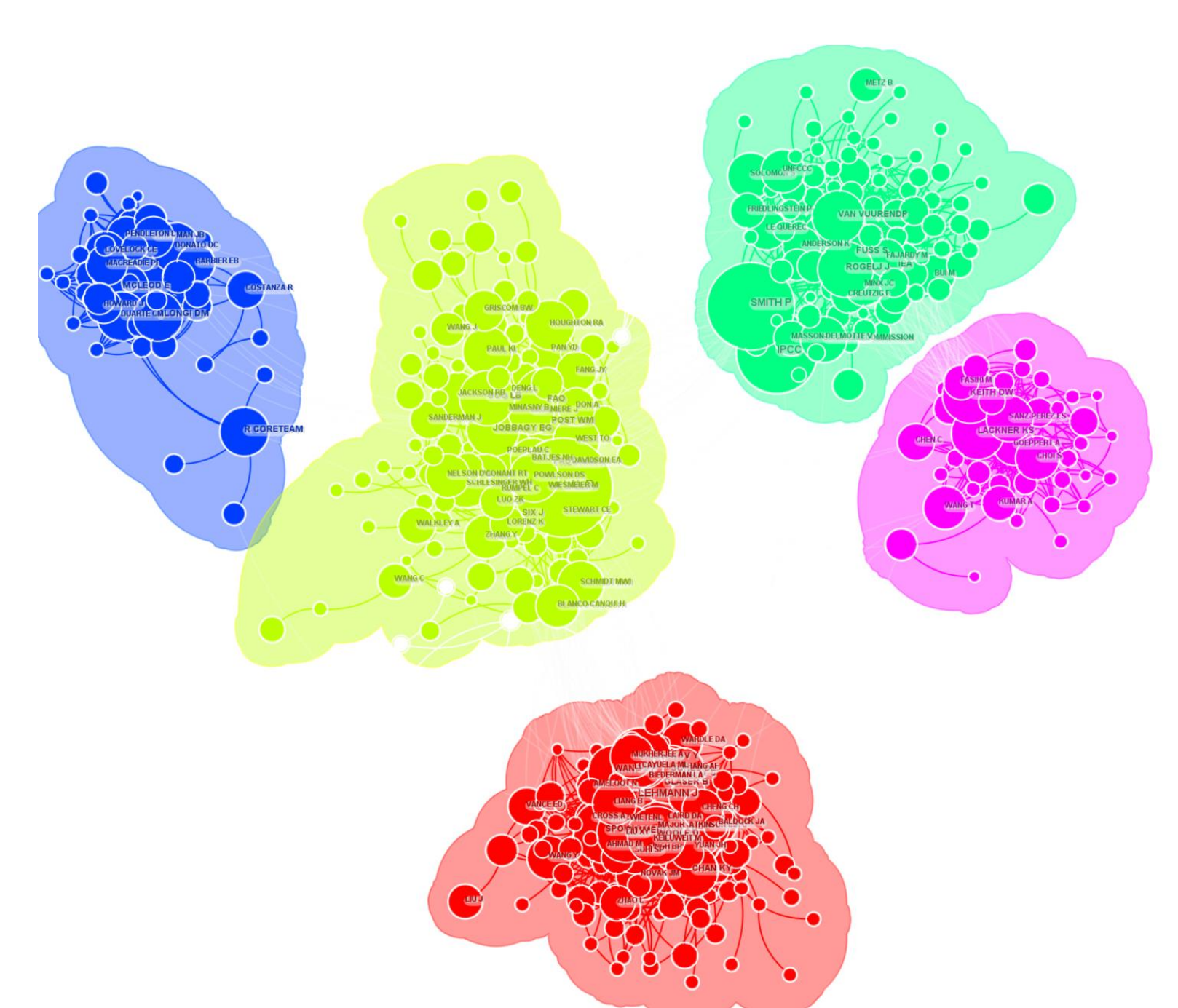
④ Institution Cooperation



⑤ Author Cooperation



⑥ Literature Influence



Key Findings

- Carbon Dioxide Removal is an especially fast-growing literature ①
- Huge research focus disparities are observed between each technologies ① ②
- It is subject to a quite high amount of international cooperations ③
- The literature is articulated around communities ④ ⑤
- We observe 5 major group of influences ⑥

Further Research

- What are the reasons behind the creation of those communities ?
→ Quantitative: Keywords/disciplines analysis
→ Qualitative: Analysis of the top 5 papers of each community