

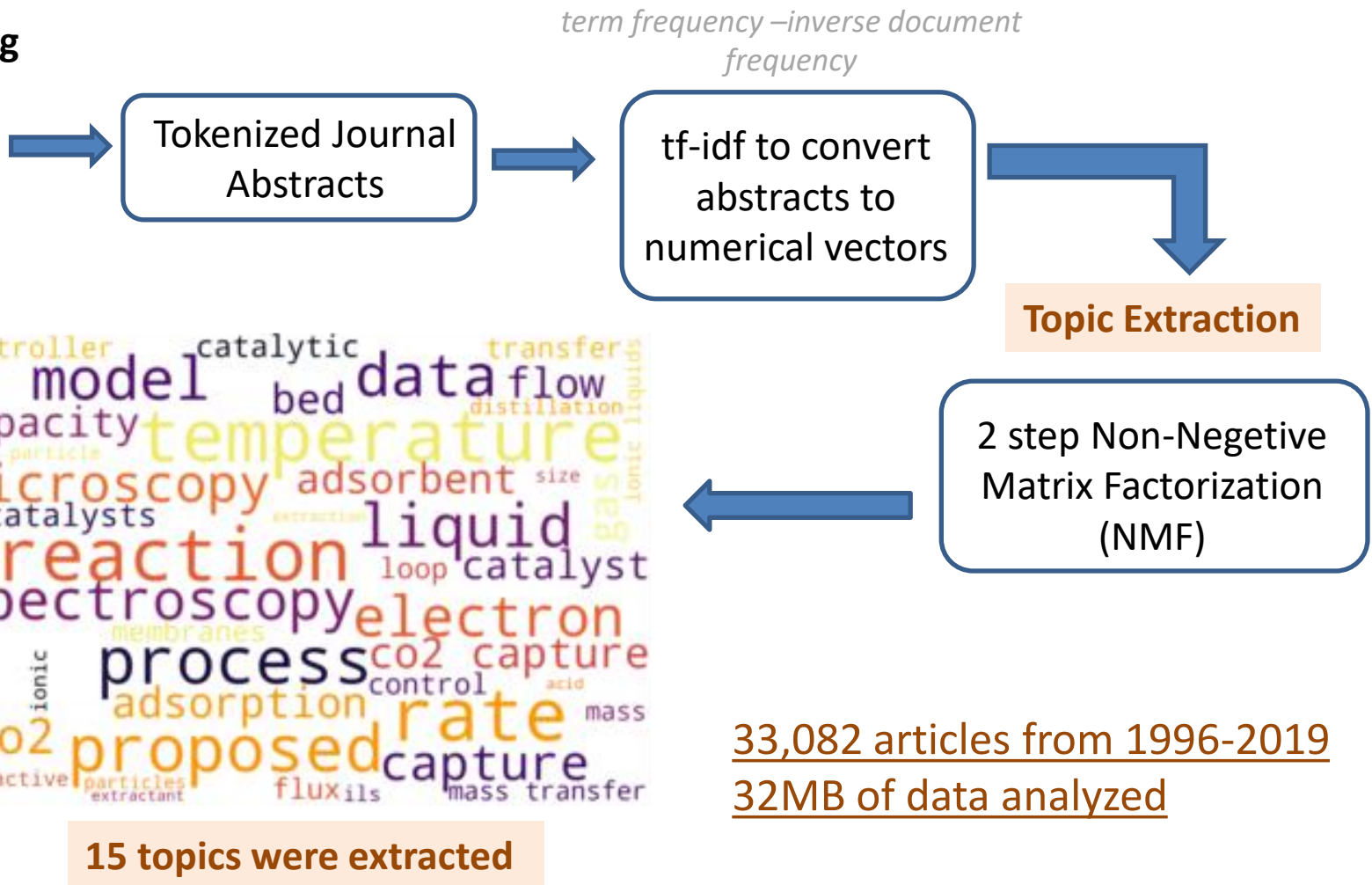
How to select an area of research?

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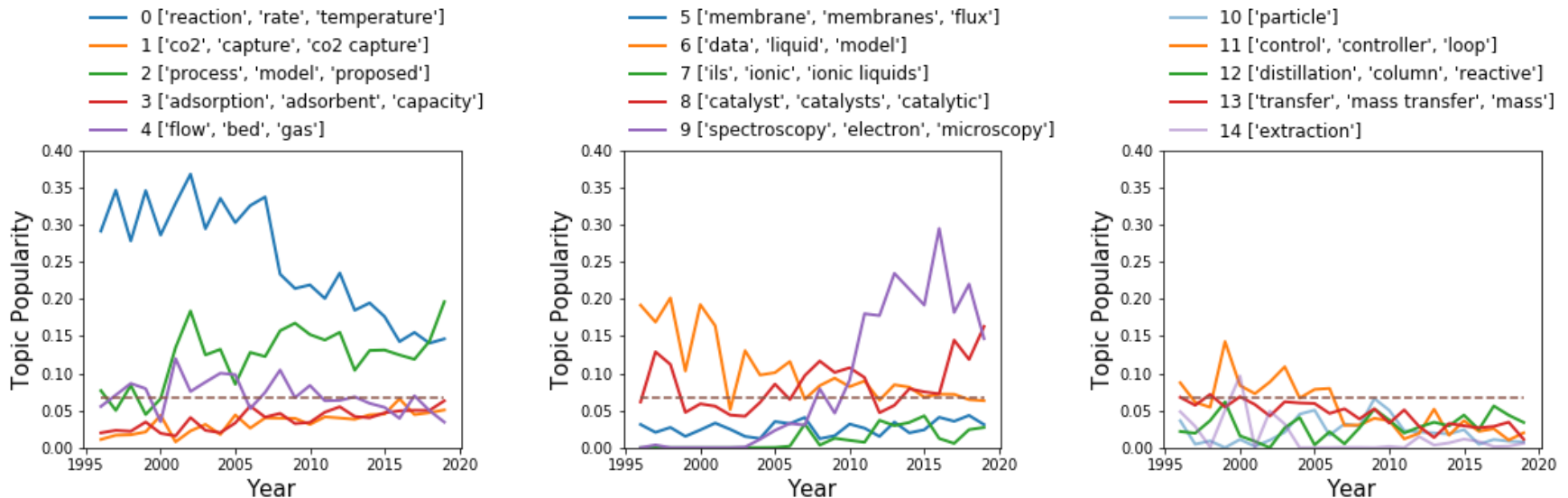
Topic extraction from IECR journal

Web Scrapping



The WordCloud shows the top 3 words per topic and their relative frequency in the journal

Popularity is a measure of the percentage of research dealing with a given topic



[9] “Spectroscopy & Electron Microscopy” , **[7] “Ionic Liquids”** emerged suddenly around 2005 and are plateauing now.

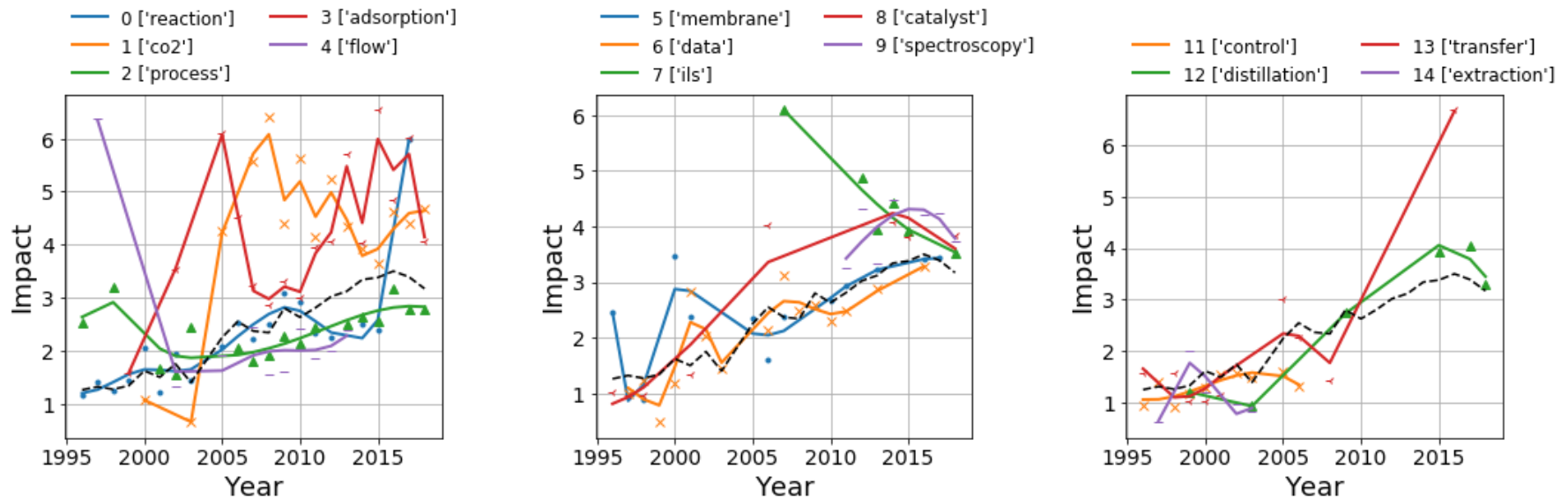
[10] “Distillation” , **[5] “Membranes”** , are small but steady fields

[1] “CO₂ capture” , **[3] “Adsorption”** , are seeing steady growth

[0] “Reaction Engineering” , **[6] “Fluid Mechanics”** are seeing a dramatic and steady decline

Topic-wise impact factor is the average number of citations received per year per paper

Impact is a measure of general outreach & relevance of research findings in a field



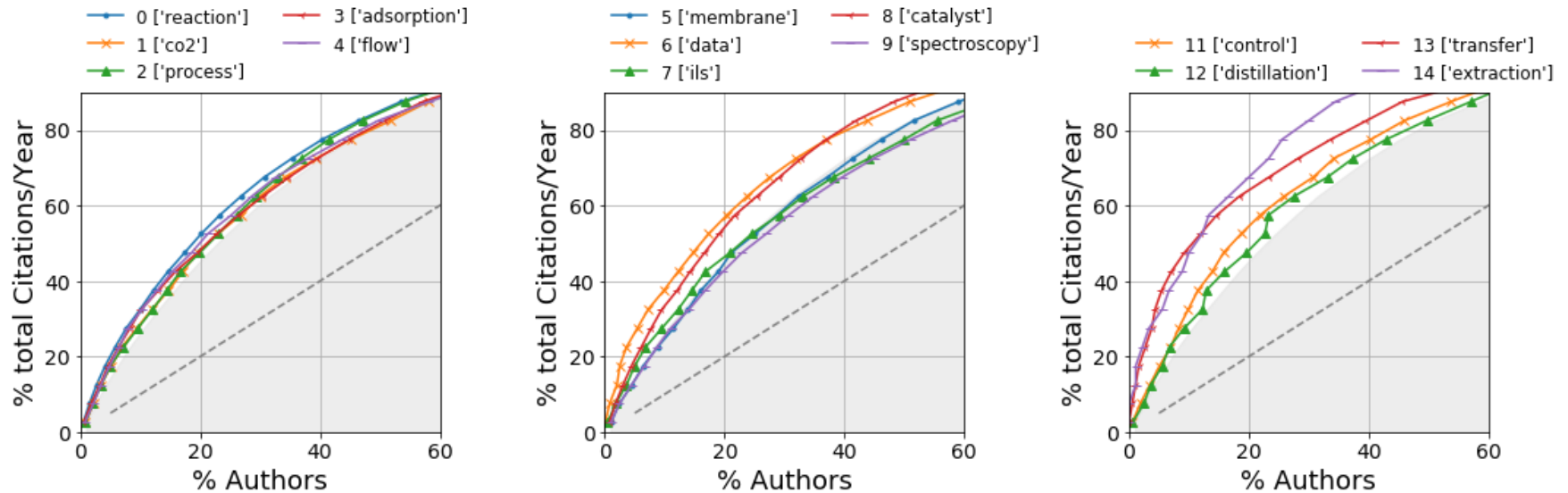
[9] “Spectroscopy & Electron Microscopy”, **[7] “Ionic Liquids”** started strong but are seeing steep decline in *Impact*

[1] “CO₂ capture”, **[3] “Adsorption”**, are the **“Hot Topic”** fields getting cited significantly more than the average (although number of contributions is lesser than average)

[2] “Process Modeling” has a lower than average outreach although the number of publications is well above the average

Backup Slides

What percentage of authors end up being cited in each research area?



Degree of collaboration overall

