

University of Maribor  
Faculty of logistics



**Bibliometric analysis with R and Matlab:  
COVID-19 and Social Responsibility  
(Research Project)**

Elaborate (preliminary study and first results of research)

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## 1. Introduction and conceptual framework of research

This document is dedicated to the bibliometric analysis (BA) regarding COVID-19 and Social responsibility (SR) research in the year 2020. Only some most important results are briefly stressed in this first version of the present preliminary study. The main tools to conduct the BA were R and Matlab 2020A, or more precisely: R's package Bibliometrix with Biblioshiny B&B ([Aria and Cuccurullo, 2017](#)), and Matlab's toolbox: Text Analytics toolbox TAT ([Mathworks, 2020](#)). This document includes:

- 1. Program codes in Matlab that have been written.**
- 2. Results, obtained on their basis.**
- 3. Results obtained using the R's package Bibliometrix with Biblioshiny B&B.**

In the second version of this document, a more in-depth explanation and discussion of results will follow. Nevertheless, we believe that experienced researchers from the field will have no problems following the key elements of this document.

Figure 1 shows the conceptual framework of the entire research.

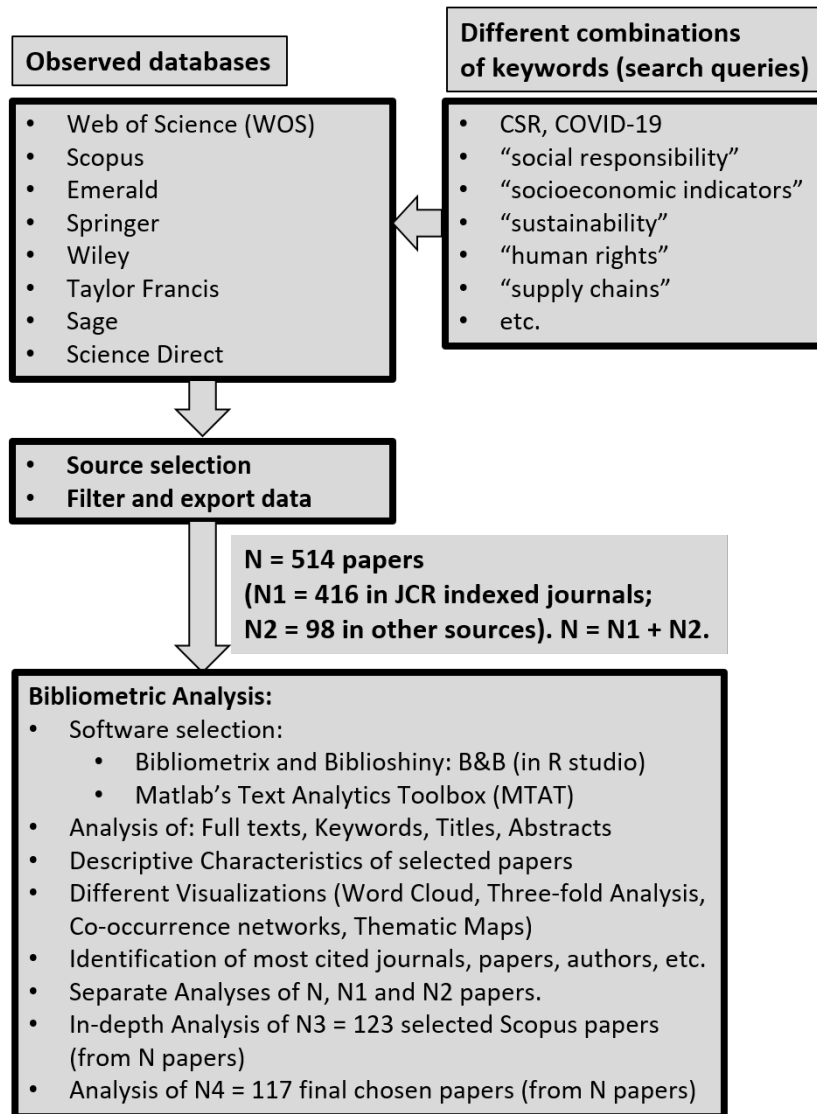


Figure 1: The conceptual framework of the entire research.

From figure 1 can be seen that particular emphasis was dedicated (by using the TAT) to  $N_3 = 123$  selected papers from the Scopus database (and  $N_{3A} = 104$  papers by using the B&B), since the latter has covered the most important works related to COVID-19 and SR research.  $N_3$  and  $N_{3A}$  chosen papers were therefore also the basis to conduct the more in-depth BA by means of B&B and TAT, respectively. For analyses of the other sets of papers ( $N$ ,  $N_1$ ,  $N_2$ ,  $N_4$ ), the TAT was applied only. From figure 1 can also be seen that the keywords that most significantly characterize the social responsibility (such as “human rights”, “social responsibility”, “sustainability”, “socioeconomic indicators”, “poverty”, etc.) were used in the context of ongoing COVID-19 pandemic crisis. From the detected  $N = 514$  papers,  $N_1 = 416$  papers were belonging to the JCR indexed (WOS database) journals, whereas  $N_2 = 98$  papers were found interesting from the other sources, mainly different technical reports, working papers, non-indexed journals, etc. The final analysis

was conducted on  $N_4 = 117$  final chosen papers, for which it was believed that they fit the best to the context of COVID-19 research related to social responsibility/irresponsibility. While doing the BA, it turned out that tourism was also an important topic discussed in the papers related to the COVID-19 and SR.

The following clusters of results were obtained:

- The BA of extended keywords and text of all articles of  $N_3=123$  Scopus journals by using TAT
- The BA of the text of the titles of all  $N=514$  Journals by using TAT
- The BA of the text of all  $N=514$  articles by using TAT
- The BA of the text of all articles of  $N_4 = 117$  final chosen papers
- The BA of the text of the titles of  $N_1=416$  Indexed Journals
- The BA of the text of the titles of  $N_2=98$  Non-Indexed Sources

## 2. Bibliometric analysis by using the TAT Matlab Toolbox

### 2.1. The BA of extended keywords and text of all articles of $N_3=123$ Scopus journals by using TAT

#### 1. run\_analy.m

```
clear
clc
close all
load data.mat
disp('-----')
disp('EXTENDED KEYWORDS ONLY FOR THE SECOND SET OF SCOPUS JOURNALS. WHEN YOU PULLED DOWN FROM THE BIBTEX SCOPUS WITH
ALL THE METADATA WITH ABSTRACTS INCLUDED')
disp('-----')

N = input('how many words for scopus analysis of extended keywords')
if length(N) == 0
    N = size(MostFrequentWords,1)
end

disp('max frequency for the words for the scopus analysis of extended keywords')
T=MostFrequentWords(1:N,:);
wordcloud(T,'Words','Occurrences','HighlightColor','black');
title('cloud of the text of words of ext keywords of SCOPUS journals')

disp('-----')
disp('TEXT OF ALL ARTICLES OF SCOPUS JOURNALS: ')
disp('-----')

readFcn = @extractFileText;
fds = fileDatastore('E:\0A COV 19 IN WORLD TRADE\COVID 19 SIR SEIR ITN PAPERS\CSR MULEJ IN COVID\SCOPUS IBLIOMETRIX TXT VSI
SCOPUS\*.txt','ReadFcn',readFcn)

bag = bagOfWords
while hasdata(fds)
str = read(fds);
```

```

document = tokenizedDocument(str);
bag = addDocument(bag,document);
end

newBag = removeWords(bag,stopWords)
newBag = removeShortWords(newBag,2);
newBag = removeShortWords(newBag,3);
newBag = removeShortWords(newBag,3);
newBag = removeShortWords(newBag,5)

N1 = input('how many words for txt files from folder')
if length(N1) == 0
    N1 = size(MostFrequentWords,1)
end

disp('max frequency for the words for the txt files from folder')
tbl = topkwords(newBag,N1)

figure
wordcloud(newBag,'HighlightColor','black','MaxDisplayWords',N1)
title('cloud of the text of text documents (papers body) of SCOPUS journals')
save_figures

```

## 2. results run\_analy.m

-----

**EXTENDED KEYWORDS LE ZA DRUGI SKLOP SCOPUSOVIH JURNALOV. KO SI POTEGNIL DOL IZ SCOPUSA BIBTEX Z VSEMI METADATA Z ABSTRACTI VRED**

-----

**koliko besed za scopus analizo ext keywords**

**N =**

**[]**

**N =**

**357**

**max frekvenca za besede za scopus analizo ext keywords**

**T =**

**357×2 table**

<b>Words</b>	<b>Occurrences</b>
<b>"betacoronavirus"</b>	<b>22</b>
<b>"viral disease"</b>	<b>17</b>
<b>"covid-19"</b>	<b>15</b>
<b>"human"</b>	<b>13</b>
<b>"human rights"</b>	<b>13</b>
<b>"pandemic"</b>	<b>13</b>
<b>"coronavirus infection"</b>	<b>11</b>
<b>"coronavirus infections"</b>	<b>11</b>

"humans"	11
"pandemics"	11
"pneumonia"	11
"viral"	11
"virus pneumonia"	11
"female"	9
"male"	9
"adult"	7
"sustainability"	7
"coronavirus disease 2019"	6
"epidemic"	6
"article"	5
"china"	5
"coronavirus"	5
"economics"	5
"respiratory disease"	5
"communicable disease control"	4
"global health"	4
"health care policy"	4
"housing"	4
"international cooperation"	4
"mental health"	4
"organization and management"	4
"psychology"	4
"tourism economics"	4
"young adult"	4
"attitude to health"	3
"disease incidence"	3
"disease spread"	3
"economic impact"	3
"education"	3
"government"	3
"health risk"	3
"health workforce"	3
"learning"	3
"public health"	3
"quarantine"	3
"questionnaire"	3

"racism"	3
"social media"	3
"socioeconomic impact"	3
"spain"	3
"supply chain management"	3
"surveys and questionnaires"	3
"sustainable development goal"	3
"tourism market"	3
"travel"	3
"united kingdom"	3

---

TEXT VSEH ČLANKOV SCOPUSOVIH JURNALOV.

---

max frekvenca za besede za txt files iz folderja

tbl =

357x2 table

Word	Count
"COVID-19"	3217
"social"	2677
"health"	2535
"pandemic"	1554
"tourism"	1352
"research"	1232
"Health"	1121
"public"	1079
"Journal"	999
"crisis"	972
"global"	965
"people"	946
"economic"	842
"community"	752
"Social"	721
"countries"	720
"University"	706
"online"	702
"information"	657
"CrossRef"	639

"management" 636  
"development" 614  
"measures" 589  
"support" 587  
"impact" 576  
"disease" 551  
"future" 517  
"coronavirus" 510  
"analysis" 509  
"Available" 507  
"change" 506  
"workers" 501  
"including" 500  
"International" 493  
"patients" 488  
"Public" 487  
"different" 474  
"response" 471  
"government" 466  
"Research" 464  
"important" 463  
"accessed" 457  
"services" 456  
"sustainable" 445  
"medical" 441  
"rights" 439  
"outbreak" 433  
"access" 431  
"Management" 428  
"mental" 423  
"However" 412  
"example" 410  
"distancing" 408  
"approach" 404  
"critical" 402  
"international" 398  
"systems" 390  
"environmental" 390



"current"	385
"Global"	385
"resources"	383
"system"	383
"national"	381
"society"	381
"article"	376
"sustainability"	370
"issues"	370
"responsibility"	369
"practices"	363
"Tourism"	361
"Sustainability"	360
"business"	359
"communities"	356
"United"	355
"supply"	352
"education"	349
"political"	349
"policy"	347
"responses"	346
"related"	344
"industry"	344
"individuals"	343
"organizations"	342
"spread"	340
"groups"	336
"process"	334
"provide"	324
"potential"	323
"number"	320
"factors"	319
"production"	317
"context"	316
"strategies"	308
"review"	307
"Coronavirus"	306
"significant"	304

"studies"	304
"Development"	303
"positive"	296
"practice"	295
"products"	292
"effects"	292
"emergency"	292
"economy"	291
"European"	290
"environment"	284
"challenges"	282
"possible"	281
"employees"	279
"security"	278
"against"	277
"increase"	276
"likely"	275
"companies"	275
"effect"	271
"travel"	269
"conditions"	267
"Covid-19"	265
"available"	265
"networks"	264
"activities"	264
"Accessed"	264
"impacts"	262
"governments"	261
"policies"	261
"safety"	261
"sector"	260
"psychological"	260
"changes"	259
"personal"	257
"technology"	256
"consumer"	254
"citizens"	252
"Review"	251

"financial" 250  
"individual" 249  
"Sustainable" 248  
"greater" 248  
"consumption" 246  
"essential" 245  
"Figure" 244  
"experience" 242  
"increased" 242  
"members" 242  
"knowledge" 241  
"especially" 240  
"National" 239  
"States" 238  
"interventions" 238  
"epidemic" 237  
"better" 237  
"result" 235  
"behavior" 235  
"others" 234  
"values" 234  
"negative" 233  
"situation" 233  
"efforts" 231  
"American" 231  
"market" 230  
"Organization" 230  
"control" 230  
"capacity" 230  
"Business" 230  
"affected" 229  
"learning" 229  
"population" 229  
"corporate" 226  
"responsible" 226  
"around" 224  
"ensure" 223  
"become" 223

"quality"	223
"further"	222
"students"	222
"include"	221
"country"	221
"communication"	220
"period"	220
"associated"	219
"levels"	218
"initiatives"	218
"benefits"	217
"Africa"	217
"following"	217
"results"	215
"general"	214
"developed"	214
"consumers"	211
"Society"	211
"considered"	210
"theory"	210
"Policy"	209
"address"	209
"states"	206
"working"	206
"demand"	206
"inequality"	205
"strategy"	205
"Economic"	203
"physical"	203
"addition"	202
"action"	202
"interest"	202
"reported"	202
"reduce"	201



## 2.2. The BA of the text of the titles of all N=514 Journals by using TAT

```
% ANALY_HARZING
clear
clc
close all

disp(
('-----'
-----'))
disp('TEXT OF THE TITLES OF ALL N=514 JOURNALS ')
disp(
('-----'
-----'))

load harzing_all.mat
T=HARZING2ZDRUZENOVSE;
T1 = [T(:,4:5) T(:,7:8)];
T1 = T1(1:516,:);
T1(515,:)=[];
T1(20,:)=[];
N = size(T1,1)
%T2 = table2cell(T1);
T2 = T1;
cnt = 1;
i = 0;
k = 0;
S = struct('title_name', {}, 'cntr', []);
sf=0

% loop for counting of the different journals where the corresponding papers
% appear:

while l==1
    k = k+1;
    cnt = cnt + i;
    %tit_ar{k} = T2(k,3);

    j = 0;
    l =T2.VarName8(cnt);
    ll =cnt;
    while l==1
        if size(T2.VarName8(cnt),1) > N-1
            sf = 1
            break
        end
        if cnt +j>N-1
            sf = 1
            break
        end
        if T2.VarName8(cnt+j) == l
            j = j+1;
            %l = l+1;
        else
            break
        end
    end
end
```

```

    i = j;
    S(k).cntr = j;
    S(k).title_name = table2cell(T2(cnt,3));
    cnt_ar{k} = j;
    if k == N
        break
    end
    if sf==1
        break
    end
end
end

S1 = [];
for i = 1:k
    S1 = [S1;[cellstr(S(i).title_name(1,1)) string(S(i).cntr)]];
end
S1 = sortrows(S1,-2);

disp('-----')
disp('frequency of the TEXT OF THE TITLES OF ALL N=514 JOURNALS:')
disp('-----')

S1(find(S1(:,1)=="<undefined>"),:)=[]
textData = string(table2cell(T2(:,2)))
cleanedDocuments = tokenizedDocument(textData);
cleanedDocuments = addPartOfSpeechDetails(cleanedDocuments);
cleanedDocuments = removeStopWords(cleanedDocuments);
cleanedDocuments = normalizeWords(cleanedDocuments, 'Style', 'lemma');
cleanedDocuments = erasePunctuation(cleanedDocuments);
cleanedDocuments = removeShortWords(cleanedDocuments,3);
cleanedBag = bagOfWords(cleanedDocuments)
cleanedBag = removeInfrequentWords(cleanedBag,2)

N1 = input('how many words for cloud')
if length(N1) == 0
%   N1 = size(MostFrequentWords,1)
    N1 = 30;
end

% cloud - bag of words

WC=wordcloud(cleanedBag, 'HighlightColor', 'black', 'MaxDisplayWords', N1)
title('cloud of the bag of words of the TEXT OF THE TITLES OF ALL N=514 JOURNALS')
figure

% cloud- text

WC1 = wordcloud(cleanedDocuments, 'HighlightColor', 'black', 'MaxDisplayWords', N1)
title('cloud of the text of words of the TEXT OF THE TITLES OF ALL N=514 JOURNALS')

disp('-----')
disp('frequency of the text of words of of the TEXT OF THE TITLES OF ALL N=514 JOURNALS:')
disp('-----')
TT = wordCloudCounts(textData)

```

```

numTopics = 10;
words = ["international" "journal" "science" "european" "american" "asian"]
newBag = removeWords(cleanedBag, words)
rng('default');
mdl = fitlda(newBag, numTopics);
figure;
for topicIdx = 1:4
    subplot(2,2,topicIdx)
        %wordcloud(mdl,topicIdx,'HighlightColor','black','MaxDisplayWords',N1);
        wordcloud(mdl,topicIdx,'HighlightColor','black');
        title("Topic: " + topicIdx)
end

words = ["international" "journal" "science" "european" "american" "asian"]
cleanedDocuments = removeWords(cleanedDocuments, words)
f = @(s)s(1:end-1) + " " + s(2:end);
bigrams = docfun(f, cleanedDocuments);
bag2 = bagOfWords(bigrams);
figure
wordcloud(bag2, 'HighlightColor', 'black', 'MaxDisplayWords', N1);
title('Bigram Cloud - titles of scopus journals')

nKeywords = 2;
span = 2;
nCooc = 7;
mode = 'center';
COtable = createCOtable(cleanedDocuments, span, 2, nCooc, mode)
CONetwork = createCONetwork(COtable, 'MI');
figure
visualizeCO(CONetwork, 'EdgeColor', [0 0.8 0.4], 'EdgeWidth', 12, 'FontSize', 14);

bag = bagOfNgrams(cleanedDocuments, 'NGramLengths', 3);
figure
wordcloud(bag);
tbl = topknggrams(bag, 10)
title("Text Data: Trigrams")

save_slik_fuzzy

```

---

**TEXT OF THE TITLES OF ALL N=514 JOURNALS**

---

**N=**

**514**

**sf=**

**0**

**sf=**

**1**

---



frequency of the TEXT OF THE TITLES OF ALL N=514 JOURNALS:

S1 =

314x2 string array

"Sustainability (Switzerland)"	"9"
"Tourism Geographies"	"7"
"Journal of Business Research"	"6"
"International Journal of Information Management"	"5"
"International journal of infectious diseases : ..."	"5"
"Tijdschrift voor Economische en Sociale Geografie"	"5"
"Agriculture and Human Values"	"4"
"2005.04007 Safety Science"	"4"
"Social Sciences & Humanities Open"	"4"
"Health and Human Rights"	"4"
"International Journal of Environmental Research..."	"4"
"Industrial Marketing Management"	"3"
"International Journal of Law and Psychiatry"	"3"
"Annals of Operations Research"	"3"
"Resources, Conservation and Recycling"	"3"
"Research in Social and Administrative Pharmacy"	"3"
"Diabetes & metabolic syndrome"	"3"
"Journal of Sustainable Finance & Investment"	"3"
"PloS one"	"3"
"British Journal of Social Psychology"	"3"
"2003.10532 arXiv"	"23"
"Geoforum"	"2"
"Journal of Humanistic Psychology"	"2"
"Child Abuse & Neglect"	"2"
"Journal of Infection"	"2"
"American Journal of Preventive Medicine"	"2"
"Trends in Food Science & Technology"	"2"
"AI & SOCIETY"	"2"
"International Journal of Contemporary Hospitali..."	"2"
"Journal of Sustainable Tourism"	"2"
"Journal of Air Transport Management"	"2"
"Health Education & Behavior"	"2"
"Human Resource Development International"	"2"
"Finance Research Letters"	"2"

"Dialogues in Human Geography" "2"

"Global Food Security" "2"

"The Journal of Allergy and Clinical Immunology:..." "2"

"Postdigital Science and Education" "2"

"Transportation Research Interdisciplinary Persp..." "2"

"International journal of environmental research..." "2"

"Sustainability" "2"

"Administrative Theory and Praxis" "2"

"European Journal of Risk Regulation" "2"

"Extractive Industries and Society" "2"

"International Human Rights Law Review" "2"

"International Journal of Entrepreneurial Behavi..." "2"

"International Journal on Emerging Technologies" "2"

"JAMA - Journal of the American Medical Associat..." "2"

"Journal of Adolescent Health" "2"

"Journal of Advanced Research in Dynamical and C..." "2"

"Journal of Behavioral Addictions" "2"

"Journal of Sustainable Finance and Investment" "2"

"Journal of Urban Health" "2"

"Meditari Accountancy Research" "2"

"Science of The Total Environment" "16"

"2003.14102 Chaos, Solitons & Fractals" "13"

"Accident Analysis & Prevention" "1"

"Bulletin of Environmental Contamination and Tox..." "1"

"Clinical radiology" "1"

"Educational Philosophy and Theory" "1"

"Intereconomics" "1"

"International Journal of Nursing Studies" "1"

"Journal of Psychiatric Research" "1"

"Mathematical Biosciences" "1"

"Nursing Outlook" "1"

"Public Health Reports" "1"

"Science" "1"

"Journal of International Business Studies" "1"

"Preventive Medicine" "1"

"Journal of Community Health" "1"

"The Lancet" "1"

"International Journal of Sociology and Social P..." "1"

"British Journal of Social Psychology" "1"  
 "Journal of medical virology" "1"  
 "Leisure Sciences" "1"  
 "Annals of Tourism Research" "1"  
 "Journal of Affective Disorders" "1"  
 "Archives of Gerontology and Geriatrics" "1"  
 "Computer Methods and Programs in Biomedicine" "1"  
 "Personality and Individual Differences" "1"  
 "American journal of infection control" "1"  
 "HTS Theologise Studies / Theological Studies" "1"  
 "Midwifery" "1"  
 "Environmental pollution (Barking, Essex : 1987)" "1"  
 "Seminars in nephrology" "1"  
 "Social science & medicine (1982)" "1"  
 "International Journal of Hospitality Management" "1"  
 "European Urology" "1"  
 "Applied Energy" "1"  
 "Physics Reports" "1"  
 "Journal of Industrial and Business Economics" "1"  
 "Journal Of Composition Theory" "1"  
 "Government information quarterly" "1"  
 "Diabetic Medicine" "1"  
 "Medical Journal of Indonesia" "1"  
 "The Journal of arthroplasty" "1"  
 "Archives of Psychiatric Nursing" "1"  
 "Research in developmental disabilities" "1"  
 "Journal of voice : official journal of the Voic..." "1"  
 "Critical Care Nursing Clinics of North America" "1"  
 "Environmental and Resource Economics" "1"  
 "Accounting, Auditing & Accountability Journal" "1"  
 "Utilities policy" "1"  
 "Journal of Mental Health" "1"  
 "Global Journal of Flexible Systems Management" "1"  
 "International Journal of Global Business and Co..." "1"  
 "Mathematical Modelling of Natural Phenomena" "1"  
 "Journal of Xidian University" "1"  
 "Archives of Iranian medicine" "1"  
 "Advances in Life Course Research" "1"

"Human Resource Management Review" "1"

"Progress in Pediatric Cardiology" "1"

"Journal of Occupational & Environmental Medicine" "1"

"Journal of PeriAnesthesia Nursing" "1"

"The Journal of Headache and Pain" "1"

"Renewable and Sustainable Energy Reviews" "1"

"Transportation Research Part E: Logistics and T..." "1"

"Current Issues in Tourism" "1"

"Environment, Development and Sustainability" "1"

"International journal of hygiene and environmen..." "1"

"Journal of Sociology" "1"

"Australasian Marketing Journal (AMJ)" "1"

"International Journal of Sustainability in High..." "1"

"Journal of Purchasing and Supply Management" "1"

"Epilepsy & Behavior" "1"

"Paediatric Respiratory Reviews" "1"

"Management Research" "1"

"Nurse Leader" "1"

"Journal of the American College of Radiology" "1"

"Mathematical biosciences and engineering : MBE" "1"

"Journal of The Royal Society Interface" "1"

"International Journal of Surgery" "1"

"Expert Review of Respiratory Medicine" "1"

"Worldwide Hospitality and Tourism Themes" "1"

"Asian journal of psychiatry" "1"

"Population health management" "1"

"medRxiv" "1"

"Emerald Emerging Markets Case Studies" "1"

"PeerJ" "1"

"Cureus" "1"

"Environment Systems and Decisions" "1"

"Multiple sclerosis and related disorders" "1"

"Health policy and technology" "1"

"Energy Research & Social Science" "1"

"Materials Today: Proceedings" "1"

"Frontiers in public health" "1"

"Tadris: Jurnal Keguruan dan Ilmu Tarbiyah" "1"

"International Journal of Science and Research" "1"

"International Journal of Health Policy and Mana..." "1"

"Eubios Journal of Asian and International Bioet..." "1"

"Sustainable Production and Consumption" "1"

"Heliyon" "1"

"She Ji: The Journal of Design, Economics, and I..." "1"

"Materials Today Chemistry" "1"

"International journal of information technology..." "1"

"Journal of International Business Policy" "1"

"4open" "1"

"The Lancet Digital Health" "1"

"Global Transitions" "1"

"Research in Globalization" "1"

"Resources, Conservation & Recycling: X" "1"

"One Earth" "1"

"International Journal of Financial, Accounting..." "1"

"Current Research in Food Science" "1"

"Geography and Sustainability" "1"

"Journal of Professional Nursing" "1"

"Aalto University publication series" "1"

"Acta Scientific Agriculture" "1"

"AJR Preprints" "1"

"American Journal of Economics" "1"

"Archives of Business Research" "1"

"Auckland University of Technology" "1"

"BMJ" "1"

"Books" "1"

"Books" "1"

"Center for Customs Law and Customs Research" "1"

"Center for Global Development" "1"

"Commonwealth Moves" "1"

"COVID-19 Perspectives" "1"

"Economic analysis summary note" "1"

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"Emerging and Re-Emerging Viral Diseases: The Case of Coronavirus Disease-19 (COVID-19)"

"Analysis of Human Condition & Social/Economical Problems arisen due to the spread of Corona Virus (COVID-19) and Negative role of Main stream Media in India."

"Prediction of the COVID-19 Pandemic for the Top 15 Affected Countries: Advanced Autoregressive Integrated Moving Average (ARIMA) Model"

"On Estimating the Number of Deaths Related to Covid-19"

"Forecasting the novel coronavirus COVID-19."

"Google searches for suicide and suicide risk factors in the early stages of the COVID-19 pandemic"

"Modeling strict age-targeted mitigation strategies for COVID-19"

"A sovereign social bond to fill a funding gap for the Covid-19 crisis response"

"Incorporating Geographic Information Science and Technology in Response to the COVID-19 Pandemic"

"Research in Social and Administrative Pharmacy Resilience in the time of pandemic: The experience of community pharmacists during COVID-19"

"How the COVID-19 will redefine the Global Supply Chains"

"Dealing with COVID-19 Across Countries"

"Effect of COVID-19 on the Indian Economy and Supply Chain"

"Exiting a Covid-19 lockdown: the bumpy road ahead for many supply chains"

"Mixing food with politics: how COVID-19 exposed inequalities in Brazil's food supply chain"

"POST-COVID SUPPLY CHAINS IN AGRI-FOOD: SME CAPACITY PREPAREDNESS"

"The Origin, Spreading, and the Expected Global Course of COVID-19 and its Socio-Economic Consequences"

"Using the COVID-19 Response to Realign India's Electronics Supply Chain"

"A Reflective Essay on What Public Relations Is: Its Role in Strategic Communication Management in Organizations and MNCs"

"Managing food supply chain amid COVID-19: Insights from global efforts"

"Exiting a COVID-19 Lockdown: The Bumpy Road Ahead for Many Supply Chains"

"Lessons Learned from the COVID-19 Pandemic Exposing the Shortcomings of Current Supply Chain Operations: A Long-Term Prescriptive Offering"

"Sweden Backcasting, Now?â€”Strategic Planning for Covid-19 Mitigation in a Liberal Democracy"

"Palestine Radar Model (PRM) for Predicting the Number of Infected Cases of COVID-19 Virus in Palestine"

"â€”The COVID-19 Crisisâ€” as an opportunity for introspection: A multilevel reflections on values, needs, trust and leadership in the future"

"The Extractive Industries and Society Socially distanced school-based nutrition program under COVID 19 in the rural Niger Delta"

"Build back better: Designing a Canadian economic system that grows well-being and quality of life"

"Chloroquine and hydroxychloroquine as potential therapies against COVID-19"

"Chloroquine and hydroxychloroquine as potential therapies against COVID-19"

"Considerations for people from minority groups in the Covid-19 pandemic"

"Corporate Social Responsibility in times of Covid-19 pandemic"

"Corporate Social Responsibility, Occupational Safety and Sustainability in the Construction Sector. Case BI Group"

"COVID 19: Managing Supply Chain Risk and Disruption"

"COVID-19"

"COVID-19 and Responsible Business Conduct"

"COVID-19 and South Asia: National Strategies and Subregional Cooperation for Accelerating Inclusive, Sustainable and Resilient Recovery"

"COVID-19 and the Global Supply Chain"

"COVID-19 crisis: A call for responsible leadership research"

"COVID-19: Trade restrictions are worst possible response to safeguard food security"

"COVID-19: Trade restrictions are worst possible response to safeguard food security | IFPRI : International Food Policy Research Institute"

"DISRUPTIVE TECHNOLOGIES AND RESPONSIVENESS OF SUPPLY CHAINS AMID THE COVID-19 PANDEMIC: A GLOBAL PERSPECTIVE"

"Doing the most good as a scientist"

"ECONOMIC RESILIENCY IN THE FACE OF ADVERSITY"

"Economic Resiliency in the Face of Adversity"

"Economic Resiliency in the Face of Adversity"

"Economics in the Time of COVID-19"

"Estimation ofâ€” exponentialâ€” growth rate andâ€” basicâ€” reproduction number ofâ€” the coronavirusâ€” diseaseâ€” 2019 (COVID-19) in Africa"

"Ethical considerations in responding to the COVID-19 pandemic"

"How can the circular economy model lead to a more sustainable fashion supply chain?"

"Identification and Estimation of the SEIRD Epidemic Model for COVID-19"

"MEMORANDUM ON THE HUMAN RIGHTS DIMENSIONS OF COVID-19 PRESENTED TO THE SENATE AD HOC COMMITTEE ON THE COVID-19 SITUATION"

"MK&C: COVID-19 â€” implications for business"

"Open Science Beyond Open Access: For and with communities"

"Open Science Beyond Open Access: For and with Communities | Leslie Chan et al. | Canadian Commission for UNESCO's IdeaLab, Ottawa, Canada, July 2020"

"Open Science Beyond Open Access: For and with Communities | Leslie Chan et al. | Canadian Commission for UNESCO's IdeaLab, Ottawa, Canada, July 2020"

"(PDF) COVID-19: Trade restrictions are worst possible response to safeguard food security"

"Practical guide for the prevention and mitigation of COVID-19 in agriculture"

"Rebuilding a More Sustainable Fashion Industry After COVID-19"

"REBUILDING TO LAST: HOW TO DESIGN AN INCLUSIVE, RESILIENT AND SUSTAINABLE GROWTH STRATEGY AFTER COVID-19"

"Recommendations On Addressing Challenges Faced by Migrant Workers during COVID-19"

"Respecting Human Rights in the Time of the COVID-19 Pandemic |"

"Statistics Brief - India Bus.pdf"

"STOP COVID-19 Monitoring Brief: The tobacco industry, its interests and allies"

"THE SOCIAL AND ECONOMIC IMPACT OF COVID-19 IN THE ASIA-PACIFIC REGION"

"THE IMPACT OF COVID-19 ON THE SUSTAINABLE DEVELOPMENT AGENDA"

"The importance of Corporate Social Responsibility in the time of Covid-19"

"The Poultry Industry and Its Supply Chain in Malaysia: Challenges from the Covid-19 Emergency"

"Understanding COVID-19: A Behavioral Corporate Social Responsibility Perspective"

"Value of treatment for COVID19"

"COVID-19 and Trade Policy: Why Turning Inward Won't Work"

"The CHHRGE Report: Building an effective cross-sector partnership to address COVID-19 among vulnerably housed populations of Chicago"

"COVID-19: THE CREATIVE FIGHTBACK"

"Global Food Industry Supply Chains in Times of Crisis Through a Sustainable Supply Chain Lens"

"Covid-19 comprehensive explainer: science, response, lessons & God"

"Ecolabelling for tourism enterprises What, why and how"

"SOCIOLOGICAL READINGS OF THE PANDEMIC IN IRELAND"

"Better Recovery, Better World: Resetting climate action in the aftermath of the COVID-19 pandemic"

"Africa trade and Covid-19"

"VULNERABLE: The Law, Policy and Ethics of COVID-19"

"Major structural changes in the eu policies due to the problems and risks caused by covid-19"

"Salient target populations and the subcategorization of deviants in the release of inmates during the COVID-19 pandemic"

"Sense of community responsibility at the forefront of crisis management"

"Repurchase intention and word of mouth factors in the millennial generation against various brands of Boba drinks during the Covid 19 pandemic"

"Cohesion in Distancing"

"The Brazilian Amazon in times of COVID-19: From crisis to transformation?"

"Research on occupational health and safety of medical staff based on iso 45001"

"Positive Public Health Ethics: Toward Flourishing and Resilient Communities and Individuals"

"Concealment of potential exposure to COVID-19 and its impact on outbreak control: Lessons from the HIV response"

"Caring for patients with pain during the COVID-19 pandemic: consensus recommendations from an international expert panel"

"Cybersociety and university sustainability: The challenge of holistic restructuring in universities in Chile, Spain, and Peru"

"The ups and downs of COVID-19 epidemics for orthopedic community"

"Sharing Information on COVID-19: the ethical challenges in the Malaysian setting"

"Crisis management, global challenges, and sustainable development from an Asian perspective"

"Editorial: It will go awayâ pandemic crisis and business in asia"

"An urgent call for measures to fight against increasing suicides during COVID-19 pandemic in Nepal"

"Psychological impacts of the COVID-19 epidemic on Chinese people: Exposure, post-traumatic stress symptom, and emotion regulation"

"What should primary care look like after the COVID-19 pandemic?"

"Independent review of emergency economic stimulus measures: Global Financial Crisis and COVID-19"

"Tourism and the sustainable development goals in Southeast Asia"

"Editor responsibility and scientific integrity during the COVID-19 outbreak"

"A social identity perspective on COVID-19: Health risk is affected by shared group membership"

"Cultural orientation, power, belief in conspiracy theories, and intentions to reduce the spread of COVID-19"

"To punish or to assist? Divergent reactions to ingroup and outgroup members disobeying social distancing"

"Triage of Scarce Critical Care Resources in COVID-19 An Implementation Guide for Regional Allocation: An Expert Panel Report of the Task Force for Mass Critical Care and the American College of Chest Physicians"

"The four horsemen of fear: An integrated model of understanding fear experiences during the COVID-19 pandemic"

"A publishing pandemic during the COVID-19 pandemic: How challenging can it become?"

"The Covid-19 pandemic in Denmark: Big lessons from a small country"

"How do agribusinesses thrive through complexity? The pivotal role of e-commerce capability and business agility"

"COVID-19 Community Stabilization and Sustainability Framework: An Integration of the Maslow Hierarchy of Needs and Social Determinants of Health"

"Social environmental injustices against indigenous peoples: the Belo Monte dam"

"Accelerating an end to smoking: a call to action on the eve of the FCTCâs COP9"

"COVID-19 and medical education: Challenges and opportunities in Venezuela [COVID-19 y la educaci3n m3dica: retos y oportunidades en Venezuela]"

"Nestl3 South Africa: leading multi-stakeholder partnership response in the COVID-19 context"

"A new set of tools for Ethnobiologist in the COVID-19 Pandemic"

"COVID-19 in Romania: transnational labour, geopolitics, and the Roma âoutsidersâ"

"The smart city as time-space cartographer in COVID-19 control: the South Korean strategy and democratic control of surveillance technology"

"Have a heart during the COVID-19 crisis: Making the case for cardiac rehabilitation in the face of an ongoing pandemic"

"Taming covid-19 by regulation: An opportunity for self-reflection"

"The CoviD-19 pandemic and international trade: Temporary turbulence or paradigm shift?"

"Adapting to a new normal? 5 key operational principles for a radiology service facing the COVID-19 pandemic"

"Invisibility and the extractive-pandemic nexus"

"Socially distanced school-based nutrition program under COVID 19 in the rural Niger Delta"

"Introduction: Research in the Time of Covid-19"

"The blue economy-cultural livelihood-ecosystem conservation triangle: The African experience"

"B Corps: A Socioeconomic Approach for the COVID-19 Post-crisis"

"Employing a chatbot for news dissemination during crisis: Design, implementation and evaluation"

"Can the United Nations deliver a feminist future?"

"Navigating uncertainty, employment and women's safety during COVID-19: Reflections of sexual assault resistance educators"

"COVID-19 reveals weak health systems by design: Why we must re-make global health in this historic moment"

"When altruists cannot help: The influence of altruism on the mental health of university students during the COVID-19 pandemic"

"Addressing the problem of severe underinvestment in mental health and well-being from a human rights perspective"

"Anti-Roma racism is spiraling during COVID-19 pandemic"

"Global health in the age of COVID-19: Responsive health systems through a right to health fund"

"Public money creation to maintain fundamental human rights during the COVID-19 pandemic"

"12 Lessons learned from the management of the coronavirus pandemic"

"Publishing in the time of pandemic: Editorial policy of a dermatology journal during COVID-19"

"A response to the persistent digital divide: Critical components of a community network ecosystem"

"Put on your own oxygen mask before helping others: mitigating health care worker risk from COVID-19"

"Do Civil Liberties Really Matter during Pandemics?"

"Statement on the Covid-19 Pandemic and Economic, Social and Cultural Rights"

"Don't Uncover that Face! Covid-19 Masks and the Niqab: Ironic Transfigurations of the EC's Intercultural Blindness"

"A comprehensive overview on the implications of financial stability and key policies that will mitigate the impacts of COVID-19"

"Coronavirus disease (COVID-19) and sport entrepreneurship"

"The economics of COVID-19: initial empirical evidence on how family firms in five European countries cope with the corona crisis"

"Modeling impact of word of mouth and E-government on online social presence during COVID-19 outbreak: A multi-mediation approach"

"Sex and careers of university students in educational practices as factors of individual differences in learning environment and psychological factors during covid-19"

"The impact of covid-19 on tourist satisfaction with b&b in zhejiang, china: An importance performance analysis"

"The need for the right socio-economic and cultural fit in the COVID-19 response in sub-Saharan Africa: Examining demographic, economic political, health, and socio-cultural differentials in COVID-19 morbidity and mortality"

"Indonesian-religious and digital pluralism: Covid-19 impact"

"How the COVID-19 pandemic effected economic, social, political, and cultural factors: A lesson from Iran"

"Coronavirus (covid-19) and social value co-creation"

"Constitutionality and legality of corona virus (COVID-19) in India: Limits of sanction and extent of liberation"

"Role of artificial intelligence in transforming the justice delivery system in COVID 19 pandemic"

"Bios, mythoi and women entrepreneurs: A Wynterian analysis of the intersectional impacts of the COVID-19 pandemic on self-employed women and women-owned businesses"

"Globalisation and social work education in the Republic of Ireland: Towards informed transnational social work for transnational problems such as COVID-19"

"COVID-19 and Dexamethasone: A Potential Strategy to Avoid Steroid-Related Strongyloides Hyperinfection"

"Personal Risk and Societal Obligation Amidst COVID-19"

"Attitudes and Psychological Factors Associated with News Monitoring, Social Distancing, Disinfecting, and Hoarding Behaviors among US Adolescents during the Coronavirus Disease 2019 Pandemic"

"Adolescents' Motivations to Engage in Social Distancing During the COVID-19 Pandemic: Associations With Mental and Social Health"

"Risk and Protective Factors for Adolescent and Young Adult Mental Health Within the Context of COVID-19: A Perspective From Nepal"

"Psychological factors associated with quality of life during the coronavirus disease (Covid-19) pandemic: A sem analysis in an context employee"

"Transformational leadership, communication quality influences to perceived organization effectiveness and employee engagement and employee retention during the covid-19 pandemic"

"Information on corona virus disease-19: Between the public's right and state's interests"

"Problematic online gaming and the COVID-19 pandemic"

"Stepping up and stepping out of COVID-19: New challenges for environmental sustainability policies in the global airline industry"

"Coronavirus disease (COVID-19): Spread, awareness and strategic containment"

"Visualising global pandemic: A content analysis of infographics on COVID - 19"

"Coronavirus and value pluralism: A robust ethical perspective on a pandemic"

"Diagnosed With COVID-19, Nope Just Cabin Fever: The Fundamentals of Staying at Home"

"Coronavirus (Covid-19) and the entrepreneurship education community"

"Factors influencing Muslim and non-Muslim consumers' consumption behavior: A case study on halal food"

"We Can't Just Wash Our Hands: a Primary Care Physician's Thoughts on COVID-19 and Her Community"

"Unintended Consequence: Influenza plunges with public health response to COVID-19 in Singapore"

"Corona Crisis and Inequality: Why Management Research Needs a Societal Turn"

"Coronavirus in the era of digital connectivity: Opportunities and challenges"

"Re: Neglected major causes of death much deadlier than COVID-19"

"Survival at the expense of the weakest? Managing modern slavery risks in supply chains during COVID-19"

"Challenges in the Practice of Sexual Medicine in the Time of COVID-19 in the United States"

"Coronavirus (covid-19) and entrepreneurship: changing life and work landscape"

"Canadian banks' responses to COVID-19: a strategic positioning analysis"

"ESG ratings and financial performance of exchange-traded funds during the COVID-19 pandemic"

"Social Work and the Future in a Post-Covid 19 World: A Foresight Lens and a Call to Action for the Profession"

"Ethics in the Time of Coronavirus: Recommendations in the COVID-19 Pandemic"

"Guns, germs, and public history: A conversation with Jennifer Tucker"

"Anatomising failure: there should be a statutory public inquiry into the UK Government's handling of COVID-19"

"An early assessment of the impact of COVID-19 on air transport: Just another crisis or the end of aviation as we know it?"

"Responding to COVID-19: What's the Problem?"

"Slum Health: Arresting COVID-19 and Improving Well-Being in Urban Informal Settlements"

"Corona-associated suicide - Observations made in the autopsy room"

"Collective Sensemaking Around COVID-19: Experiences, Concerns, and Agendas for our Rapidly Changing Organizational Lives"

"From SARS to COVID-19: the Singapore journey"

"The Covid-19 pandemic: Provoking thought and encouraging change"

"Rebuilding trust: sustainability and non-financial reporting and the European Union regulation"

"Using the International Integrated Reporting Framework to comply with EU Directive 2014/95/EU: can we afford another reporting façade?"

"Keeping governments accountable: the COVID-19 Assessment Scorecard (COVID-SCORE)"

"Conducting research during the COVID-19 pandemic: How scientific community should be prepared?"

"Good Deeds and Cheap Marketing: The Food Industry in the Time of COVID-19"

"Corporate communication, public relations and reputational risk management in the days of covid-19 [Comunicación corporativa, relaciones públicas y gestión del riesgo reputacional en tiempos del covid-19]"

"SDG 4 and the COVID-19 emergency: Textbooks, tutoring, and teachers"

"Cyber Security Responsibilization: An Evaluation of the Intervention Approaches Adopted by the Five Eyes Countries and China"

"COVID-19, health rights of prison staff, and the bridge between prison and public health in Africa"

"Online Book Shopping in Vietnam: The Impact of the COVID-19 Pandemic Situation"

"Trade credit research before and after the global financial crisis of 2008 – A bibliometric overview"

"Anesthesia and coronavirus: Solidarity issues [Coronavirus y anestesia: Consideraciones en torno a la solidaridad]"

"Important aspects of prevention of health personnel in hospitals during the epidemic novel coronavirus 2019 [Aspectos importantes de prevención del personal sanitario en los hospitales durante la epidemia del nuevo coronavirus 2019]"

"Digital society: Organizational management after COVID-19 [Sociedad digital: Gestión organizacional tras el covid-19]"

"Restoring dignity with open hiring: Greyston bakery and the recognition of value"

"Against pandemic research exceptionalism"

"Coronavirus-related opportunities for promoting occupational health and safety"

"The Rise of the Data Poor: The COVID-19 Pandemic Seen From the Margins"

"Global health diplomacy amid the COVID-19 pandemic: A strategic opportunity for improving health, peace, and well-being in the CARICOM region-A systematic review"

"Thinking outside the 'box': a discussion of sports fans, teams, and the environment in the context of COVID-19"

"Addressing inequality: The first step beyond COVID-19 and towards sustainability"

"Artificial intelligence in the agri-food system: Rethinking sustainable business models in the COVID-19 scenario"

"Changes in sustainability priorities in organisations due to the COVID-19 outbreak: Averting environmental rebound effects on society"

"Impact of the SARS-CoV-2 on the Italian agri-food sector: An analysis of the quarter of pandemic lockdown and clues for a socio-economic and territorial restart"

"Social innovation and food provisioning during Covid-19: The case of urban-rural initiatives in the Province Of Naples"

"Social justice, food loss, and the sustainable development goals in the era of COVID-19"

"Technology-enhanced auditing in voluntary sustainability standards: The impact of COVID-19"

"The tipping point in the status of socially responsible consumer behavior research? A bibliometric analysis"

"Ignored and invisible: internally displaced persons (IDPs) in the face of COVID-19 pandemic"

"AI governance in the public sector: Three tales from the frontiers of automated decision-making in democratic settings"

"Covid-19: How to be careful with trust and expertise on social media"

"COVID-19: time to plan for prompt universal access to diagnostics and treatments"

"COVID-19: health literacy is an underestimated problem"

"Towards a better world after COVID-19"

"Coronavirus and international business: An entrepreneurial ecosystem perspective"

"Beyond Coronativism: The Need For Agape"

"Biogeopolitics of COVID-19: Asylum-Related Migrants at the European Union Borderlands"

"COVID-19 and Alternative Conceptualisations of Value and Risk in GPN Research"

"Creative Production of 'COVID-19 Social Distancing' Narratives on Social Media"

"How Can We Quarantine Without a Home? Responses of Activism and Urban Social Movements in Times of COVID-19 Pandemic Crisis in Lisbon"

"Contextualising coronavirus geographically"

"Pandemic Risk Management in Operations and Finance"

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"pandemic"	138
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"impact"	47
"health"	43
"response"	43
"Coronavirus"	40
"supply"	40
"model"	37
"Chain"	34
"management"	32
"sustainable"	31
"TM"	30
"research"	27
"analysis"	26
"crisis"	26
"time"	26
"Global"	24
"challenges"	21
"food"	20
"outbreak"	20
"effects"	19



"epidemic"	19
"care"	18
"case"	18
"community"	18
"economic"	18
"â"	18
"human"	17
"perspective"	17
"study"	17
"Lessons"	16
"distancing"	16
"industry"	16
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"Control"	13
"Policy"	13
"Risk"	13
"practice"	13
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"Mental"	12
"business"	12
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"China"	10
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"World"	10

"approach"	10
"behavior"	10
"changes"	10
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"Face"	9
"Needs"	9
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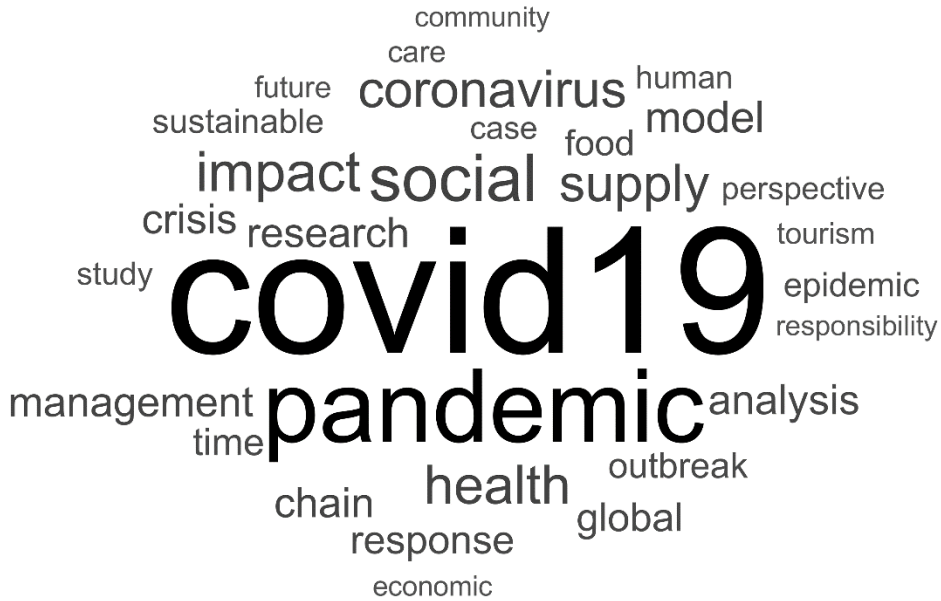
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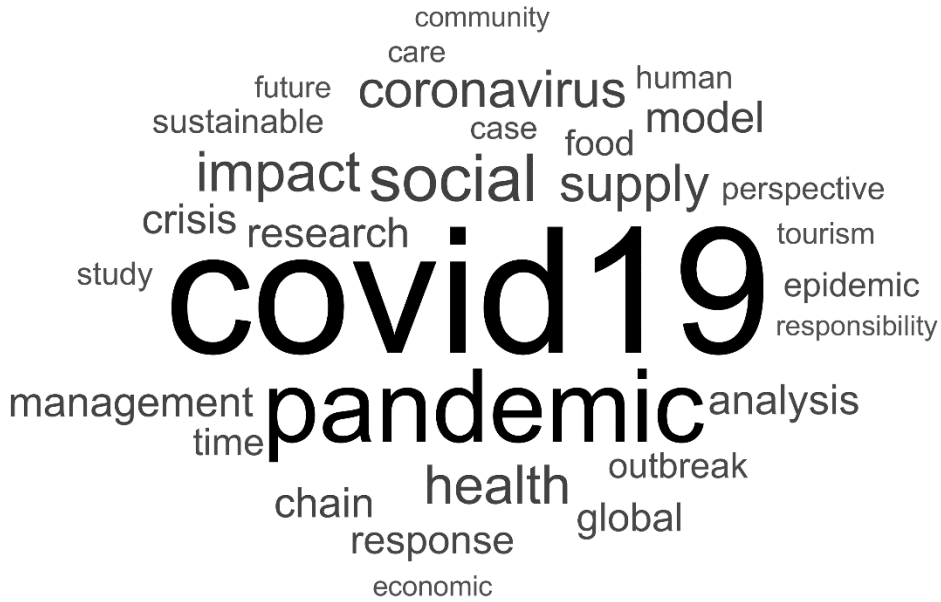
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"novel"	"coronavirus"	"covid19"	4	3	
"amid"	"covid19"	"pandemic"	4	3	
"food"	"supply"	"chain"	4	3	
"lessons"	"covid19"	"pandemic"	3	3	
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"sustainable"	"development"	"goal"	3	3	

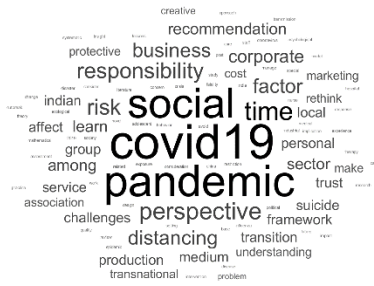
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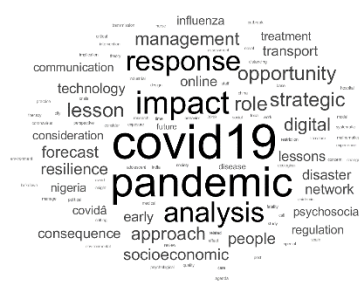
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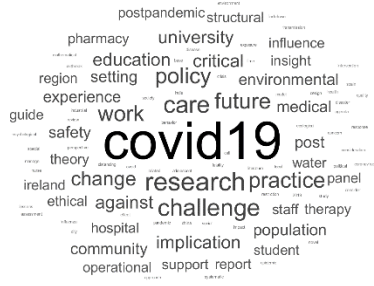
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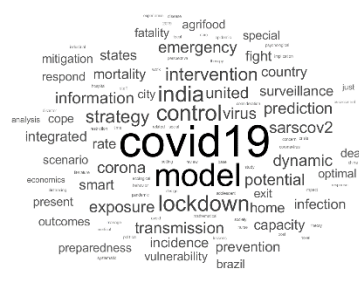
**Topic: 2**



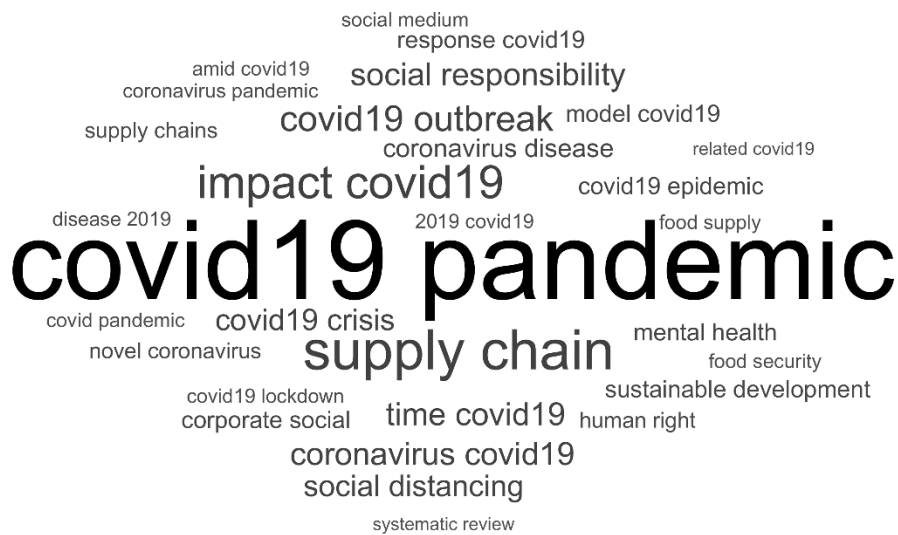
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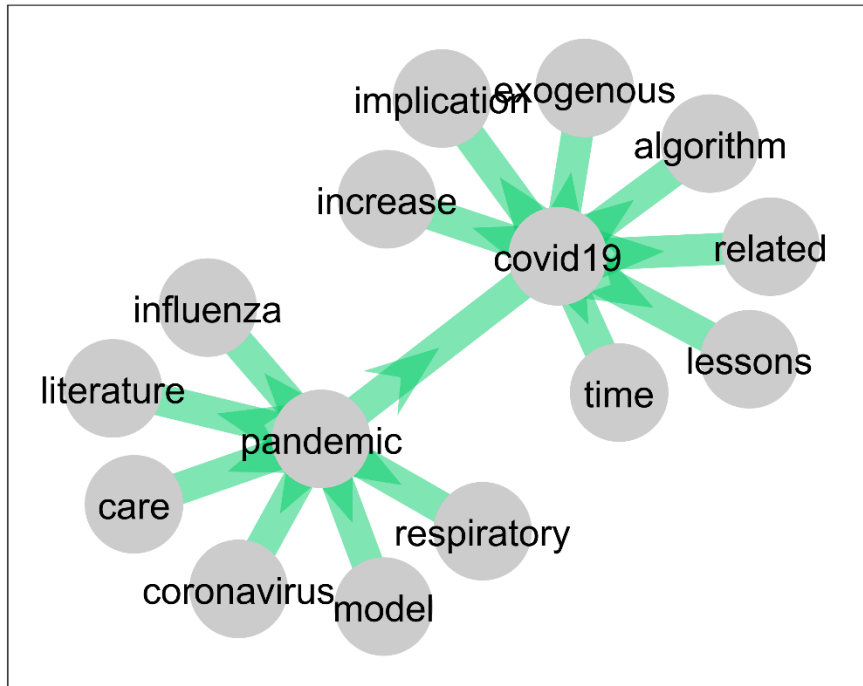


**Topic: 4**



**Bigram Cloud - titles of scopus journals**





### Text Data: Trigrams



### 2.3. The BA of the text of all N=514 articles by using TAT

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clear
clc
close all

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readFcn = @extractFileText;
fds = fileDatastore('E:\0A COV 19 IN WORLD TRADE\COVID 19 SIR SEIR ITN PAPERS\CSR MULEJ IN COVID\TEKST VSEH VIROV SCOPUS TER
DRUGIH INDEKS IN NEINDEKS\*.txt','ReadFcn',readFcn)

bag = bagOfWords
while hasdata(fds)
str = read(fds);
document = tokenizedDocument(str);
bag = addDocument(bag,document);
end

newBag = removeWords(bag,stopWords)
newBag = removeShortWords(newBag,2);
newBag = removeShortWords(newBag,3);
newBag = removeShortWords(newBag,3);
newBag = removeShortWords(newBag,5)

N1 = input('koliko besed za txt files iz folderja')
if length(N1) == 0
    N1 = size(MostFrequentWords,1)
end

disp('max frekvenca za besede za txt files iz folderja')
tbl = topkwords(newBag,N1)

figure
wordcloud(newBag,'HighlightColor','black','MaxDisplayWords',N1)
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save_slik_fuzzy
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TEXT VSEH ČLANKOV VSEH VIROV.

max frekvenca za besede za txt files iz folderja

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"health"	8275
"social"	7358
"pandemic"	6735

"people"	5035
"public"	4075
"countries"	4071
"crisis"	3854
"Health"	3768
"supply"	3733
"research"	3573
"global"	3386
"economic"	3184
"Journal"	2840
"impact"	2703
"online"	2650
"number"	2648
"measures"	2604
"support"	2503
"disease"	2393
"policy"	2360
"coronavirus"	2283
"government"	2277
"University"	2258
"including"	2252
"different"	2248
"information"	2245
"workers"	2231
"Research"	2148
"response"	2061
"tourism"	2000
"services"	1978
"International"	1963
"management"	1955
"important"	1937
"Social"	1894
"system"	1890
"example"	1846
"patients"	1837
"outbreak"	1814



"future" 1810  
"medical" 1804  
"development" 1803  
"analysis" 1788  
"change" 1748  
"population" 1699  
"community" 1691  
"spread" 1690  
"However" 1642  
"Covid-19" 1639  
"business" 1614  
"companies" 1599  
"individuals" 1597  
"current" 1590  
"production" 1587  
"economy" 1564  
"access" 1549  
"available" 1541  
"demand" 1525  
"mental" 1513  
"provide" 1486  
"epidemic" 1481  
"approach" 1472  
"Figure" 1449  
"policies" 1441  
"United" 1431  
"effects" 1431  
"Canada" 1423  
"lockdown" 1405  
"Coronavirus" 1404  
"financial" 1389  
"Management" 1386  
"country" 1377  
"Global" 1376  
"resources" 1373  
"likely" 1370

"international" 1368  
"reported" 1366  
"Public" 1366  
"systems" 1363  
"related" 1362  
"industry" 1360  
"national" 1341  
"control" 1332  
"sustainable" 1325  
"increase" 1318  
"environmental" 1315  
"market" 1313  
"critical" 1309  
"governments" 1304  
"rights" 1301  
"deaths" 1299  
"distancing" 1280  
"Available" 1269  
"review" 1254  
"potential" 1250  
"around" 1241  
"chains" 1241  
"issues" 1240  
"infection" 1222



```
N1 = 100;N2 = 1000;N3 = 30;
```

```
disp('max frekvenca za besede za txt files iz folderja')  
tbl = topkwords(newBag,N2)
```

```
figure
```

```
wordcloud(newBag,'HighlightColor','black','MaxDisplayWords',N1)  
title('cloud of the text of TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI - TAKO WOS,  
SCOPUS, ITN, DO NEINDEKSIRANIH')
```

```
disp('-----')  
disp('frequency of the words of TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI - TAKO  
WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:)  
disp('-----')
```

```
textData = document;  
cleanedDocuments = tokenizedDocument(textData);  
cleanedDocuments = addPartOfSpeechDetails(cleanedDocuments);  
cleanedDocuments = removeStopWords(cleanedDocuments);  
cleanedDocuments = normalizeWords(cleanedDocuments,'Style','lemma');  
cleanedDocuments = erasePunctuation(cleanedDocuments);  
cleanedDocuments = removeShortWords(cleanedDocuments,4);  
cleanedBag = bagOfWords(cleanedDocuments)  
cleanedBag = removeInfrequentWords(cleanedBag,2)
```

```
figure
```

```
WC=wordcloud(cleanedBag,'HighlightColor','black','MaxDisplayWords',N1)  
title('cloud of the bag of words of the TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI -  
TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH')  
figure
```

```
% cloud- text
```

```
WC1 = wordcloud(cleanedDocuments,'HighlightColor','black','MaxDisplayWords',N1)  
title('cloud of the text of words of TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI - TAKO  
WOS, SCOPUS, ITN, DO NEINDEKSIRANIH')
```

```
% disp('-----')  
% disp('frequency of the text of words of the papers titles:')  
% disp('-----')  
% TT = wordCloudCounts(textData)
```

```
numTopics = 3;  
words = ["international" "journal" "science" "european" "american" "asian"]  
newBag = removeWords(cleanedBag,words)  
rng('default');
```

```
disp('-----')  
disp('frequency of the words of DIGRAMS - TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI  
- TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:)  
disp('-----')  
words = ["international" "journal" "science" "european" "american" "asian"]  
cleanedDocuments = removeWords(cleanedDocuments,words)  
f = @(s)s(1:end-1) + " " + s(2:end);  
bigrams = docfun(f,cleanedDocuments);  
bag_a = bagOfNgrams(cleanedDocuments,'NGramLengths',2);  
bag2 = bagOfWords(bigrams);  
tbl = topkgrams(bag_a,20)  
figure  
wordcloud(bag2,'HighlightColor','black','MaxDisplayWords',N3);  
title('Bigram Cloud - TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLUJUI" VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS,  
ITN, DO NEINDEKSIRANIH')
```

```
disp('-----')
```

```
disp('frequency of the words of TRIGRAMS OF TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH "VKLU?I" VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:~)
disp('-----')
```

```
bag = bagOfNgrams(cleanedDocuments,'NGramLengths',3);
figure
wordcloud(bag,'HighlightColor','black','MaxDisplayWords',N3);
tbl = topknggrams(bag,20)
title('Text Data: Trigrams TEXT VSEH ?LANKOV VSEH KON?NIH REDUCIRANIH IZBRANIH VKLU?I VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH')
```

save\_slik\_fuzzy

-----

**TEXT VSEH ČLANKOV VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLUČI" VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH).**

-----

max frekvenca za besede za txt files iz folderja

tbl =

1000x2 table

Word	Count
"COVID-19"	3233
"social"	2066
"supply"	1708
"tourism"	1575
"pandemic"	1527
"health"	1509
"Journal"	1329
"research"	1278
"public"	957
"Research"	953
"crisis"	909
"analysis"	882
"people"	847
"global"	832
"resilience"	730
"impact"	725
"Health"	704
"economic"	703
"coronavirus"	651

"management"	650
"International"	623
"outbreak"	622
"epidemic"	587
"online"	584
"information"	583
"disease"	582
"measures"	576
"countries"	570
"companies"	566
"CrossRef"	557
"University"	551
"Social"	537
"different"	536
"disruption"	520
"Management"	517
"business"	508
"future"	502
"demand"	498
"rights"	491
"response"	486
"Ivanov"	481
"industry"	480
"effect"	479
"Tourism"	474
"support"	458
"approach"	456
"factors"	455
"government"	452
"effects"	450
"change"	441
"important"	440
"available"	440
"including"	431
"chains"	430
"system"	415

"number"	399
"Business"	398
"development"	390
"environmental"	390
"Supply"	389
"travel"	381
"performance"	370
"society"	369
"consumers"	368
"positive"	362
"However"	359
"example"	356
"learning"	354
"related"	354
"systems"	351
"sustainable"	348
"review"	342
"community"	341
"impacts"	340
"disruptions"	339
"strategies"	336
"responsibility"	335
"literature"	333
"control"	332
"consumer"	332
"potential"	331
"network"	329
"international"	327
"services"	327
"issues"	327
"corporate"	323
"accessed"	321
"access"	320
"population"	319
"article"	317
"employees"	317

"Public"	312
"spread"	311
"resources"	311
"patients"	308
"likely"	308
"policy"	307
"significant"	306
"European"	305
"sustainability"	301
"responses"	300
"workers"	297
"current"	297
"Review"	295
"models"	294
"governments"	292
"United"	290
"studies"	290
"Global"	289
"Coronavirus"	288
"production"	287
"psychological"	286
"practices"	283
"individuals"	280
"changes"	279
"results"	277
"recovery"	276
"national"	275
"Retrieved"	274
"Covid-19"	271
"market"	271
"policies"	270
"Figure"	268
"medical"	265
"challenges"	265
"levels"	264
"context"	264



"distancing"	263
"outbreaks"	262
"reported"	262
"individual"	262
"office"	262
"lockdown"	260
"Sustainability"	259
"become"	259
"security"	259
"capacity"	257
"Science"	255
"behaviors"	255
"authors"	251
"increase"	251
"groups"	249
"period"	248
"communities"	248
"networks"	248
"provide"	247
"environment"	246
"Production"	245
"Available"	244
"distribution"	244
"activities"	244
"knowledge"	241
"associated"	241
"organizations"	239
"behavior"	239
"consumption"	239
"economy"	237
"affected"	236
"Chinese"	236
"critical"	235
"products"	235
"increased"	235
"initiatives"	228

"theory"	228
"family"	227
"perspective"	227
"suppliers"	227
"process"	226
"result"	225
"emergency"	224
"physical"	224
"further"	224
"events"	224
"conditions"	223
"possible"	221
"States"	220
"higher"	220
"students"	220
"infection"	219
"responsible"	219
"businesses"	218
"design"	217
"situation"	217
"financial"	217
"negative"	216
"country"	216
"Rights"	216
"greater"	215
"markets"	215
"considered"	213
"long-term"	212
"variables"	211
"framework"	211
"supplier"	209
"digital"	207
"political"	207
"include"	206
"specific"	206
"service"	206

"operations" 205  
 "efforts" 204  
 "technologies" 203  
 "around" 203  
 "technology" 201

-----  
 frequency of the words of TEXT VSEH ČLANKOV VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:  
 -----  
 -----

frequency of the words of DIGRAMS - TEXT VSEH ČLANKOV VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:  
 -----  
 -----

tbl =

20×3 table

	Ngram	Count	NgramLength
"supply"	"chain"	1548	2
"covid19"	"pandemic"	533	2
"public"	"health"	450	2
"human"	"right"	417	2
"epidemic"	"outbreak"	313	2
"social"	"responsibility"	306	2
"corporate"	"social"	233	2
"social"	"distancing"	211	2
"united"	"states"	172	2
"available"	"online"	171	2
"infectious"	"disease"	166	2
"ripple"	"effect"	158	2
"covid19"	"outbreak"	144	2
"production"	"research"	142	2
"social"	"medium"	137	2
"tourism"	"research"	130	2
"future"	"research"	127	2
"ivanov"	"dolgui"	123	2
"access"	"april"	122	2
"chain"	"disruption"	122	2

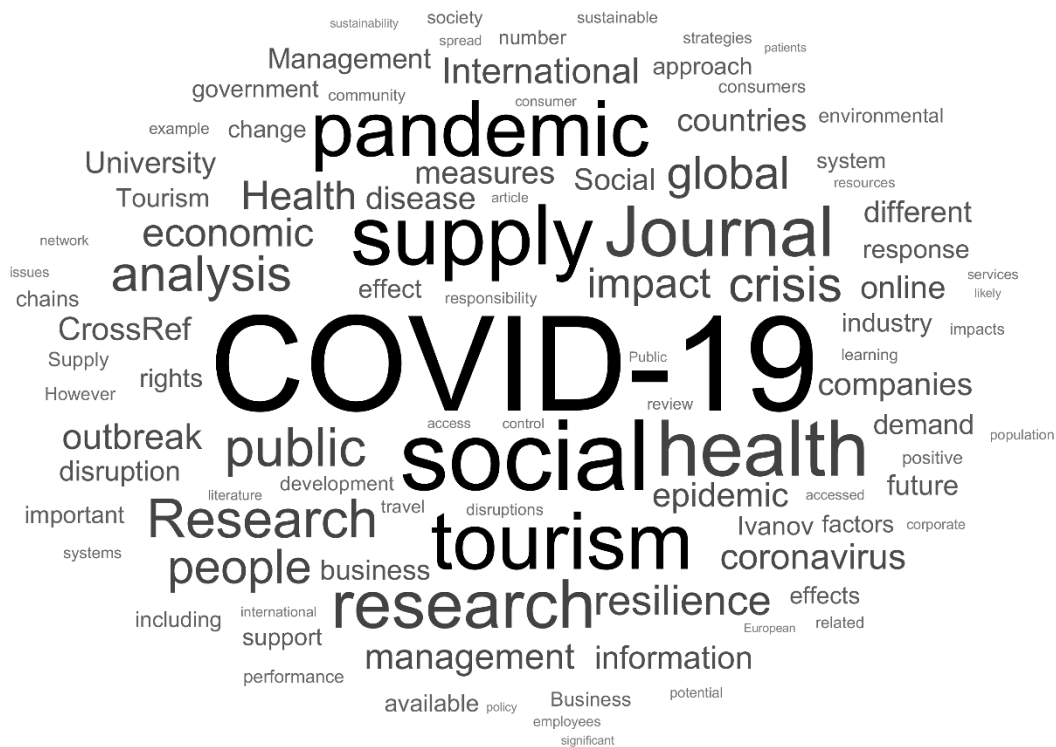
-----  
**frequency of the words of TRIGRAMS OF TEXT VSEH ČLANKOV VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI"  
 VIROV (VSI IZBRANI VIRI - TAKO WOS, SCOPUS, ITN, DO NEINDEKSIRANIH:**  
 -----

tbl =

20×3 table

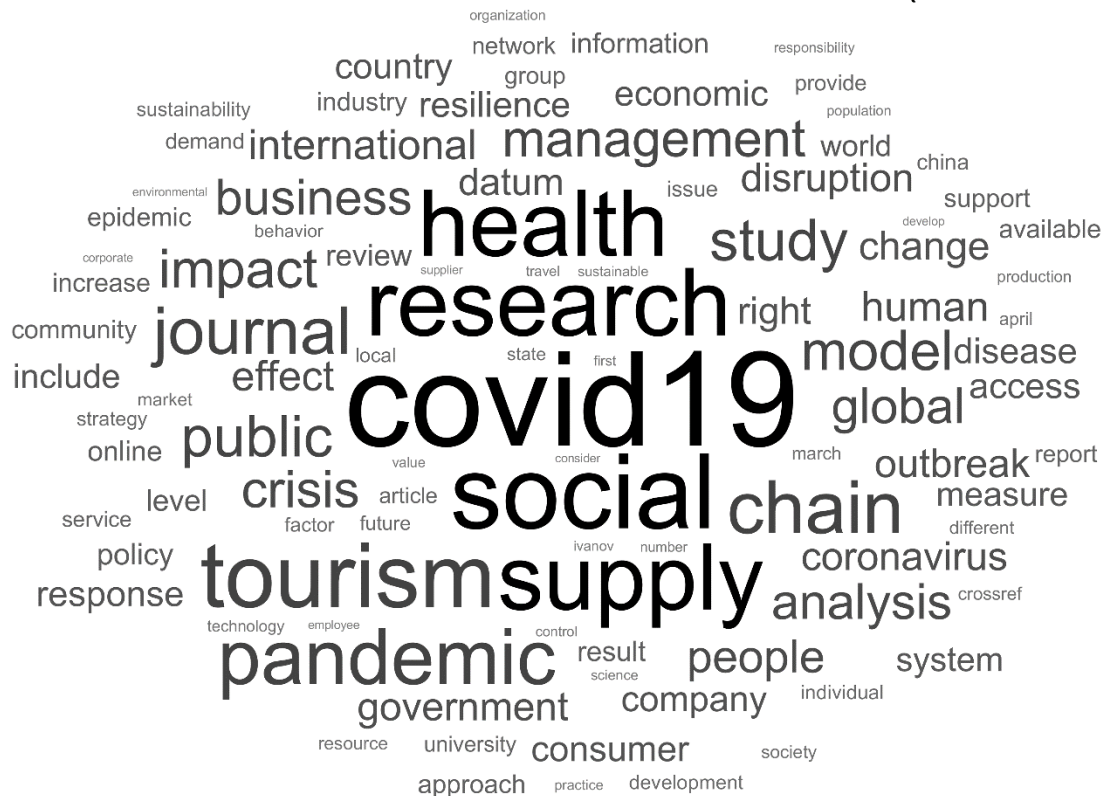
	Ngram	Count	NgramLength	
"corporate"	"social"	"responsibility"	203	3
"supply"	"chain"	"disruption"	121	3
"supply"	"chain"	"management"	117	3
"supply"	"chain"	"resilience"	106	3
"annals"	"operations"	"research"	101	3
"world"	"health"	"organization"	95	3
"global"	"supply"	"chain"	90	3
"coronavirus"	"disease"	"covid19"	80	3
"corporate"	"covid19"	"response"	79	3
"satisfaction"	"corporate"	"covid19"	77	3
"online"	"social"	"presence"	72	3
"covid19"	"resource"	"centre"	68	3
"annals"	"tourism"	"research"	57	3
"severe"	"acute"	"respiratory"	55	3
"impact"	"epidemic"	"outbreak"	53	3
"acute"	"respiratory"	"syndrome"	51	3
"expert"	"systems"	"applications"	48	3
"resilient"	"supply"	"chain"	44	3
"ivanov"	"expert"	"systems"	40	3
"systems"	"applications"	"113649"	40	3

III KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI - TA

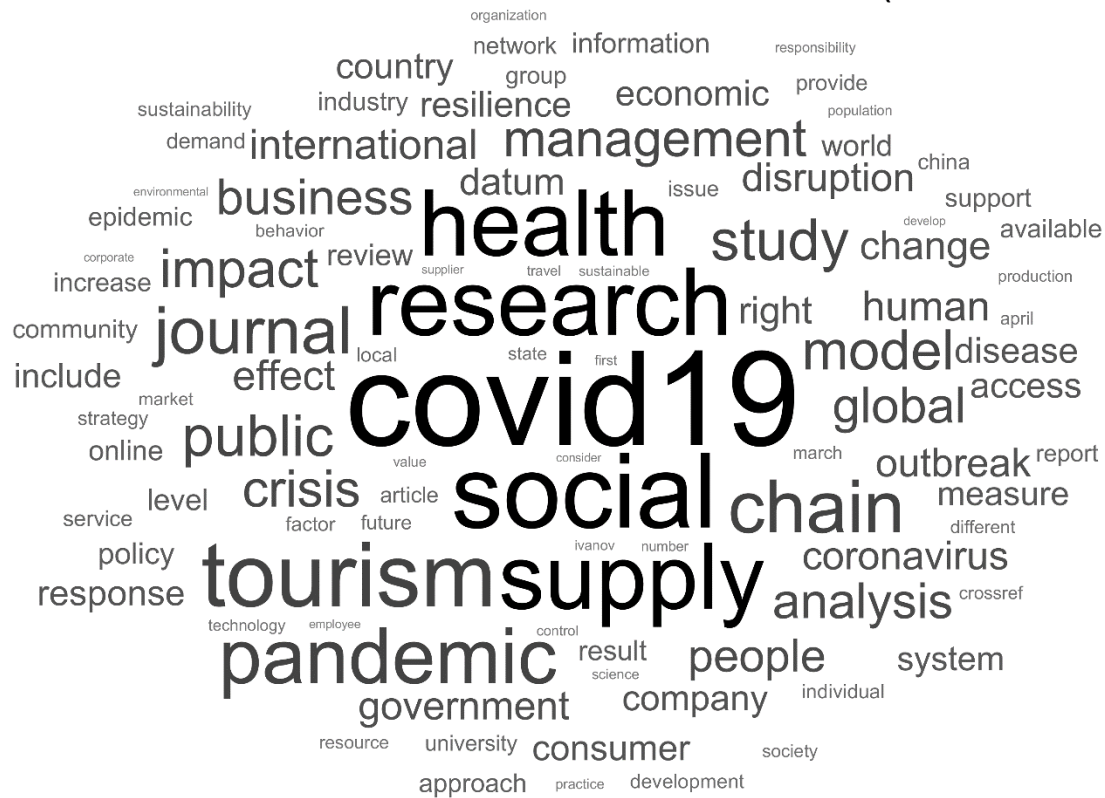


>>

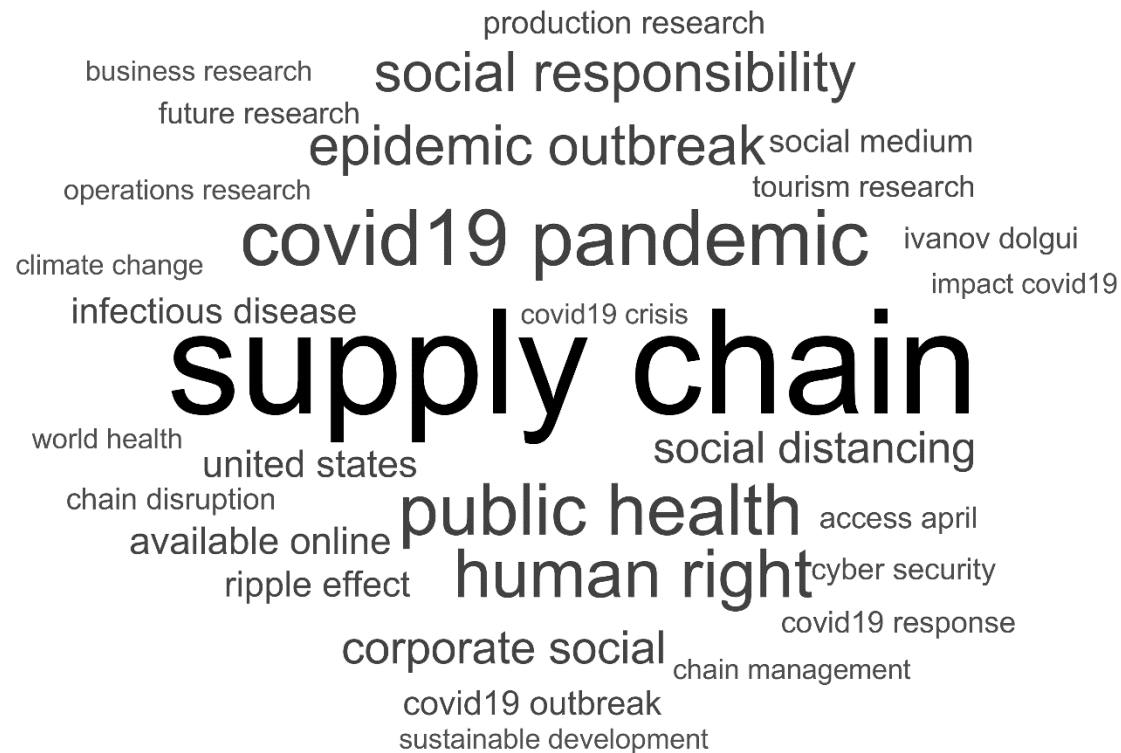
IV VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI



7 VSEH KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI)



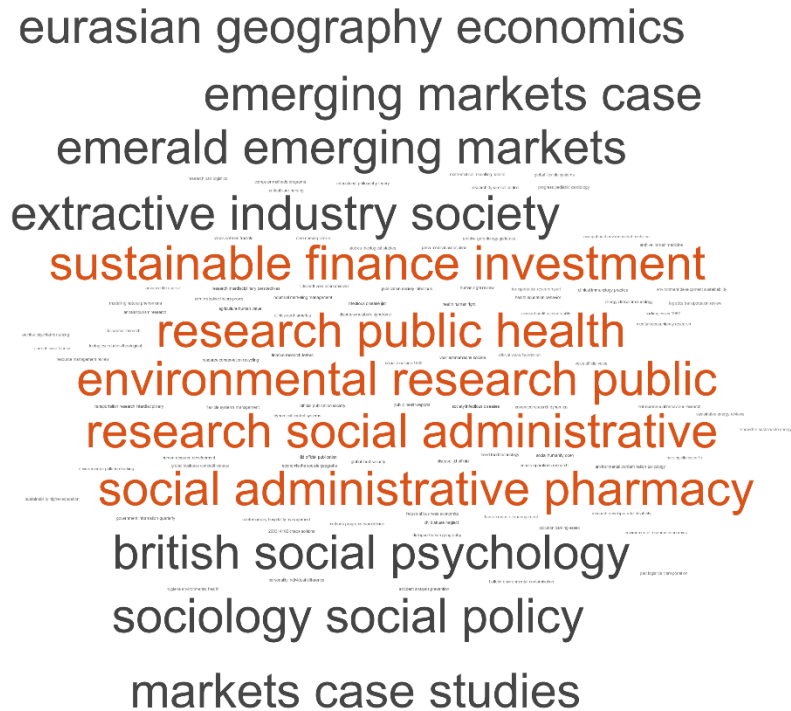
8 KONČNIH REDUCIRANIH IZBRANIH "VKLJUČI" VIROV (VSI IZBRANI VIRI - TAKI)



## SEH KONČNIH REDUCIRANIH IZBRANIH VKLJUČI VIROV (VSI IZBRANI VIRI - TAI



### Text Data: Trigrams



## 2.5. The BA of the text of the titles of N1=416 Indexed Journals

```
% ANALY_HARZING1
clear
clc
close all

disp('-----')
disp('NASLOVOVI paperjev VSEH VIROV V GENERALNI BAZI. ')
disp('-----')

load harzing_all.mat
T=HARZING2ZDRUZENOVSE;
T1 = [T(:,4:5) T(:,7:9)];
T1 = T1(1:516,:);
T1(515,:)=[];
T1(20,:)=[];
N = size(T1,1)
%T2 = table2cell(T1);
T2 = T1;
chflag = input('vsi viri-1, le indeksirani-2, neodvisni-3')
S = struct('title_name',{},'cntr',[]);
k = 0;
for i = 1:N
    if chflag == 1
        k= k+1;
        %S{k} = table2cell(T2(i,2));
        S(k).title_name = table2cell(T2(i,2));
        S(k).cntr = k;
        chstr = 'VSI VIRI';
    elseif chflag == 2
        if cell2mat(table2cell(T2(i,5))) == 1
            k= k+1;
            S(k).title_name = table2cell(T2(i,2));
            S(k).cntr = k;
            chstr = 'INDEKSIRANI VIRI';
        else
            continue
        end
    else
        if cell2mat(table2cell(T2(i,5))) == 0
            k= k+1;
            S(k).title_name = table2cell(T2(i,2));
            S(k).cntr = k;
            chstr = 'NEODVISNI VIRI';
        else
            continue
        end
    end
end

disp('-----')
chstr = chstr
disp('?tevilov virov:')
Nvirov = k
disp('-----')
S1 = [];
for i = 1:k
    S1 = [S1;[cellstr(S(i).title_name{1,1}) string(S(i).cntr)]];
end
%S1 = horzcat(S{:})

disp('-----')
disp('frequency of the words of papers titles:')
disp('-----')
```



```

textData = S1;
cleanedDocuments = tokenizedDocument(textData);
cleanedDocuments = addPartOfSpeechDetails(cleanedDocuments);
cleanedDocuments = removeStopWords(cleanedDocuments);
cleanedDocuments = normalizeWords(cleanedDocuments,'Style','lemma');
cleanedDocuments = erasePunctuation(cleanedDocuments);
cleanedDocuments = removeShortWords(cleanedDocuments,3);
cleanedBag = bagOfWords(cleanedDocuments)
cleanedBag = removeInfrequentWords(cleanedBag,2)

N1 = input('koliko besed za cloud')
if length(N1) == 0
% N1 = size(MostFrequentWords,1)
N1 = 30;
end

% cloud - bag of words

WC=wordcloud(cleanedBag,'HighlightColor','black','MaxDisplayWords',N1)
title('cloud of the bag of words of the papers titles')
figure

% cloud- text

WC1 = wordcloud(cleanedDocuments,'HighlightColor','black','MaxDisplayWords',N1)
title('cloud of the text of words of papers titles')

disp('-----')
disp('frequency of the text of words of the papers titles:')
disp('-----')
TT = wordCloudCounts(textData)

numTopics = 10;
words = ["international" "journal" "science" "european" "american" "asian"]
newBag = removeWords(cleanedBag,words)
rng('default');
mdl = fitlda(newBag,numTopics);
figure;
for topicIdx = 1:4
subplot(2,2,topicIdx)
%wordcloud(mdl,topicIdx,'HighlightColor','black','MaxDisplayWords',N1);
wordcloud(mdl,topicIdx,'HighlightColor','black');
title("Topic: " + topicIdx)
end

words = ["international" "journal" "science" "european" "american" "asian"]
cleanedDocuments = removeWords(cleanedDocuments,words)
f = @(s)s(1:end-1) + " " + s(2:end);
bigrams = docfun(f,cleanedDocuments);
bag2 = bagOfWords(bigrams);
figure
wordcloud(bag2,'HighlightColor','black','MaxDisplayWords',N1);
title('Bigram Cloud - titles of scopus journals')

nKeywords = 20;
span = 6;
nCooc = 10;
mode = 'center';
COTable = createCOTable(cleanedDocuments,span, 2, nCooc, mode)
CONetwork = createCONetwork(COTable,'MI');
figure
%visualizeCO(CONetwork,'NodeColor',[0.8 0.5 0.8],'FontSize',9,'MarkerSize',24);
visualizeCO(CONetwork,'EdgeColor',[0 0.8 0.4],'EdgeWidth',12,'FontSize',14);

```

```
bag = bagOfNgrams(cleanedDocuments,'NGramLengths',3);
figure
wordcloud(bag,'HighlightColor','black');
tbl = topkngrams(bag,10)
title("Text Data: Trigrams")
```

```
save_slik_fuzzy
```

-----

**NASLOVOVI paperjev VSEH VIROV V GENERALNI BAZI.**

-----

N =

514

vsi viri-1, le indeksirani-2, neodvisni-32

chflag =

2

-----

chstr =

'INDEKSIRANI VIRI'

število virov:

Nvirov =

416

-----

frequency of the words of papers titles:

-----

-----

frequency of the text of words of the papers titles:

-----

TT =

1379x2 table

Word	Count
"COVID-19"	312
"pandemic"	122
"social"	51
"health"	43
"impact"	38
"Coronavirus"	36
"management"	30

"model"	30
"response"	29
"analysis"	25
"TM"	24
"supply"	23
"sustainable"	23
"crisis"	22
"research"	22
"challenges"	19
"outbreak"	19
"care"	18
"time"	18
"Chain"	17
"epidemic"	17
"Global"	16
"effects"	16
"Lessons"	15
"perspective"	15
"â"	15
"case"	14
"community"	14
"future"	14
"study"	14
"tourism"	14
"distancing"	13
"human"	13
"Mental"	12
"factors"	12
"food"	12
"practice"	12
"public"	12
"risk"	12
"disease"	11
"economic"	11
"industry"	11
"review"	11

"s"	11
"systems"	11
"China"	10
"India"	10
"approach"	10
"changes"	10
"data"	10
"role"	10
"work"	10
"Psychological"	9
"behavior"	9
"business"	9
"control"	9
"development"	9
"education"	9
"lockdown"	9
"opportunities"	9
"policies"	9
"rights"	9
"strategic"	9
"COVID"	8
"New"	8
"emergency"	8
"interventions"	8
"quality"	8
"related"	8
"Africa"	7
"Corona"	7
"Critical"	7
"Estimation"	7
"Hospital"	7
"Information"	7
"Prediction"	7
"South"	7
"Strategies"	7
"World"	7

"associated"	7
"context"	7
"digital"	7
"environment"	7
"integrated"	7
"media"	7
"novel"	7
"people"	7
"problem"	7
"rate"	7
"resilience"	7
"spread"	7
"transformation"	7
"transmission"	7
"university"	7
"Exposure"	6
"Framework"	6
"Needs"	6
"Nurses"	6
"Stress"	6
"United"	6
"air"	6
"among"	6
"assessment"	6
"countries"	6
"design"	6
"due"	6
"environmental"	6
"experiences"	6
"financial"	6
"implications"	6
"international"	6
"medical"	6
"number"	6
"operational"	6
"patients"	6

"personal" 6  
 "settings" 6

COTable =

20x7 table

Word	Counts	COWord	COCount	COCOUNTAll	T	MI
"covid19"	315	"pandemic"	23	121	-0.74188	8.0183
"covid19"	315	"social"	10	48	-0.48918	8.1506
"covid19"	315	"outbreak"	9	19	-0.46408	9.3356
"covid19"	315	"health"	8	43	-0.43754	7.9874
"covid19"	315	"impact"	7	35	-0.40928	8.0917
"covid19"	315	"coronavirus"	5	36	-0.3459	7.5656
"covid19"	315	"analysis"	5	25	-0.3459	8.0917
"covid19"	315	"disease"	5	11	-0.3459	9.2761
"covid19"	315	"response"	4	18	-0.30938	8.2437
"covid19"	315	"spread"	4	6	-0.30938	9.8287
"pandemic"	121	"covid19"	27	315	2.8914	6.8693
"pandemic"	121	"impact"	4	35	1.1129	7.2843
"pandemic"	121	"health"	3	43	0.9638	6.5723
"pandemic"	121	"coronavirus"	3	36	0.9638	6.8287
"pandemic"	121	"amid"	3	3	0.9638	10.414
"pandemic"	121	"analysis"	3	25	0.9638	7.3547
"pandemic"	121	"mental"	2	12	0.78694	7.8287
"pandemic"	121	"psychosocial"	2	3	0.78694	9.8287
"pandemic"	121	"distress"	2	4	0.78694	9.4136
"pandemic"	121	"distancing"	2	11	0.78694	7.9542

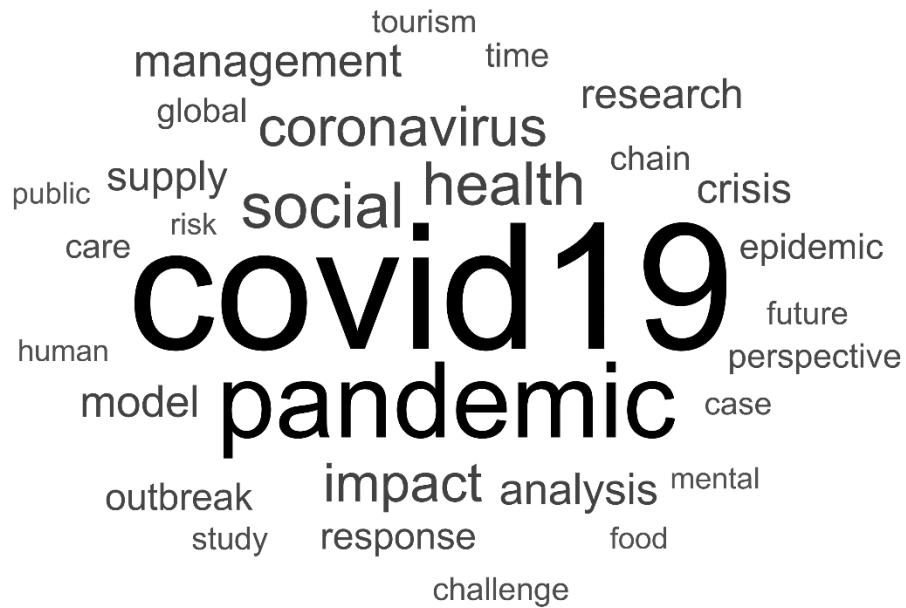
tbl =

10x3 table

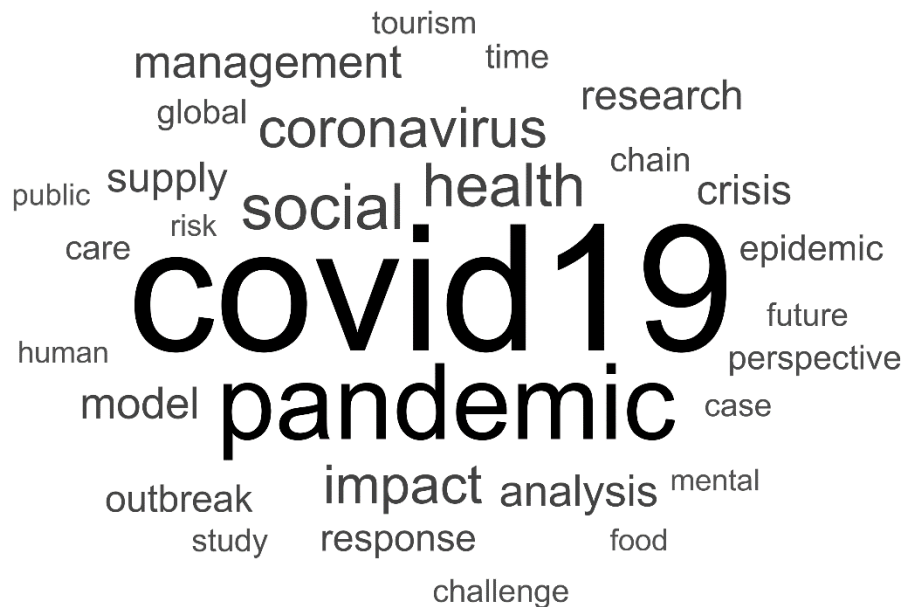
	Ngram	Count	NgramLength
"coronavirus"	"disease" "2019"	5	3
"impact"	"covid19" "pandemic"	5	3
"disease"	"2019" "covid19"	4	3
"novel"	"coronavirus" "covid19"	4	3
"lessons"	"covid19" "pandemic"	3	3

"corporate"	"social"	"responsibility"	3	3
"amid"	"covid19"	"pandemic"	3	3
"corona"	"virus"	"covid19"	3	3
"sustainable"	"development"	"goal"	3	3
"coronavirus"	"disease"	"covid19"	3	3

cloud of the bag of words of the papers titles

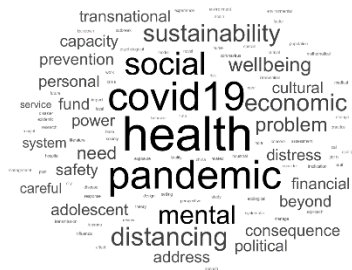


cloud of the text of words of papers titles

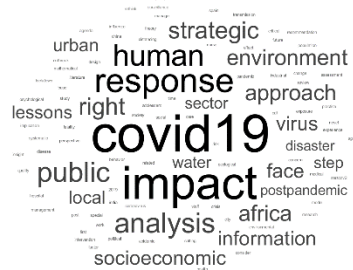




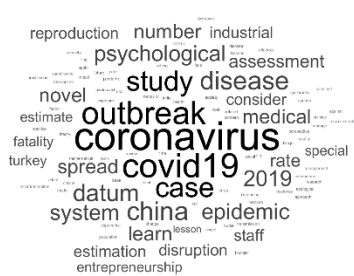
**Topic: 1**



**Topic: 2**



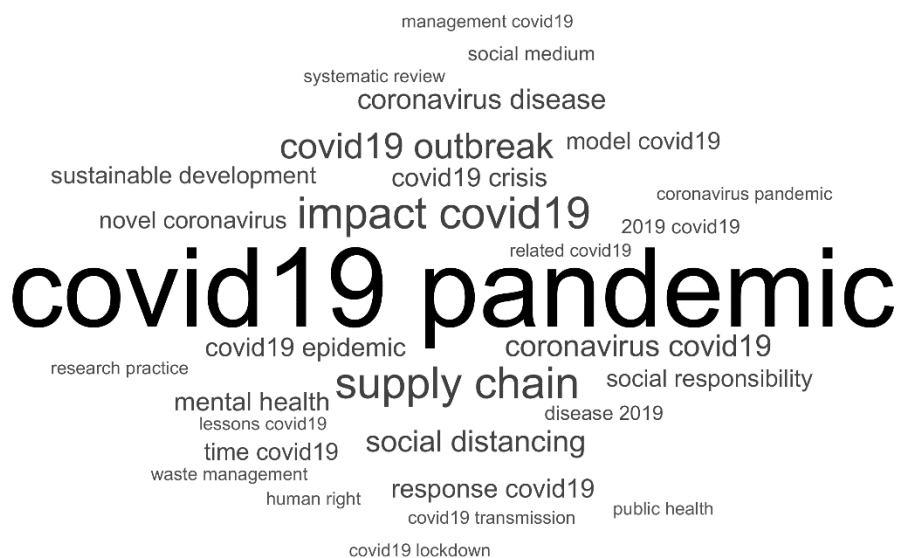
**Topic: 3**

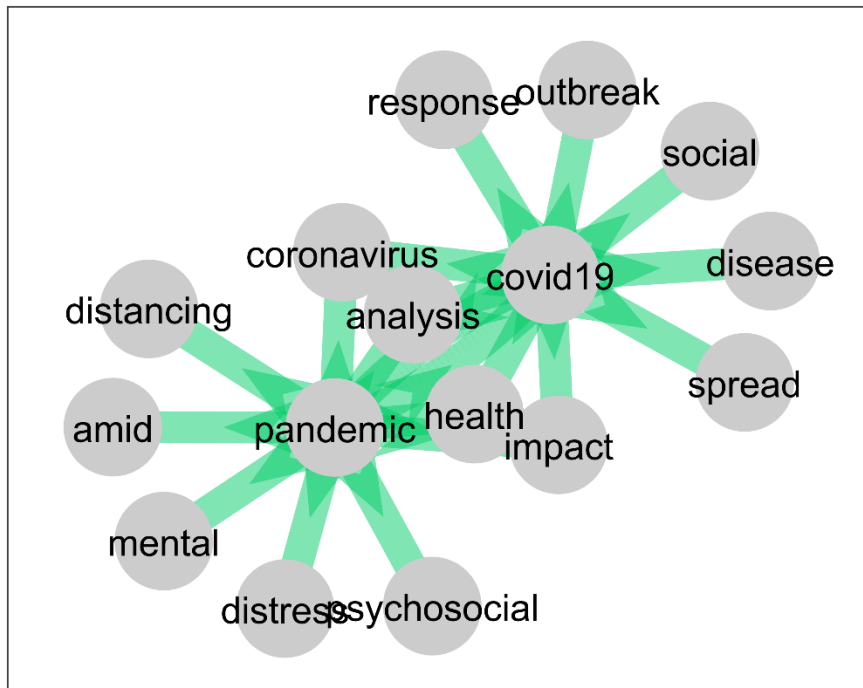


**Topic: 4**

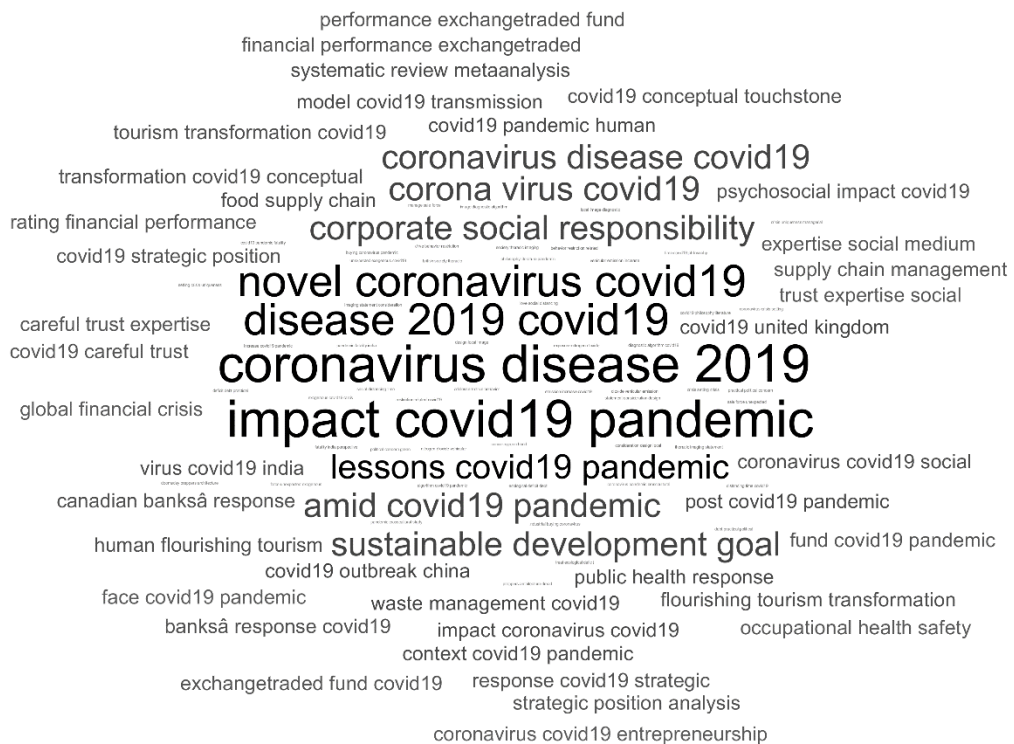


**Bigram Cloud - titles of scopus journals**





### Text Data: Trigrams



## 2.6. The BA of the text of the titles of N2=98 Non-Indexed Sources

---

**NASLOVOVI paperjev VSEH VIROV V GENERALNI BAZI.**

---

N =

514

vsi viri-1, le indeksirani-2, neodvisni-33

chflag =

3

---

chstr =

'NEODVISNI VIRI'

število virov:

Nvirov =

98

---

---

frequency of the words of papers titles:

---

---

frequency of the text of words of the papers titles:

---

TT =

372×2 table

Word	Count
"COVID-19"	69
"Supply"	17
"chain"	17
"pandemic"	16
"Social"	15
"Responsibility"	14
"Impact"	9
"Global"	8

"Sustainable"	8
"Time"	8
"food"	8
"Economics"	7
"Model"	7
"Open"	6
"Resiliency"	6
"Science"	6
"Trade"	6
"TM"	6
"COVID"	5
"Industry"	5
"Research"	5
"Case"	4
"Communities"	4
"Control"	4
"Coronavirus"	4
"Corporate"	4
"Face"	4
"Forecasting"	4
"Human"	4
"Policy"	4
"Strategies"	4
"Vulnerability"	4
"crisis"	4
"pdf"	4
"s"	4
"Access"	3
"Addressing"	3
"Adversity"	3
"Better"	3
"Beyond"	3
"Canadian"	3
"DISRUPTION"	3
"Distancing"	3
"Group"	3

"Law" 3  
 "Lockdown" 3  
 "Recovery" 3  
 "Sector" 3  
 "Study" 3  
 "World" 3  
 "business" 3  
 "economy" 3  
 "effective" 3  
 "needs" 3  
 "possible" 3  
 "restrictions" 3  
 "safeguard" 3  
 "security" 3  
 "worst" 3

COTable =

20x7 table

Word	Counts	COWord	COCCount	COCCountAll	T	MI
"covid19"	70	"pandemic"	5	16	-0.28852	6.5981
"covid19"	70	"social"	4	14	-0.25806	6.4688
"covid19"	70	"impact"	3	9	-0.22349	6.6912
"covid19"	70	"global"	3	8	-0.22349	6.8611
"covid19"	70	"control"	2	4	-0.18248	7.2761
"covid19"	70	"supply"	2	17	-0.18248	5.1887
"covid19"	70	"number"	2	2	-0.18248	8.2761
"covid19"	70	"human"	2	3	-0.18248	7.6912
"covid19"	70	"address"	2	2	-0.18248	8.2761
"covid19"	70	"amid"	2	2	-0.18248	8.2761
"supply"	17	"chain"	3	12	1.2571	6.2761
"supply"	17	"chains"	3	5	1.2571	7.5392
"supply"	17	"global"	2	8	1.0264	6.2761
"supply"	17	"times"	2	1	1.0264	9.2761
"supply"	17	"avoid"	1	1	0.72581	8.2761
"supply"	17	"impact"	1	9	0.72581	5.1062

```

"supply" 17 "technology" 1 1 0.72581 8.2761
"supply" 17 "disruptive" 1 1 0.72581 8.2761
"supply" 17 "disaster" 1 1 0.72581 8.2761
"supply" 17 "covid19" 1 70 0.72581 2.1468

```

tbl =

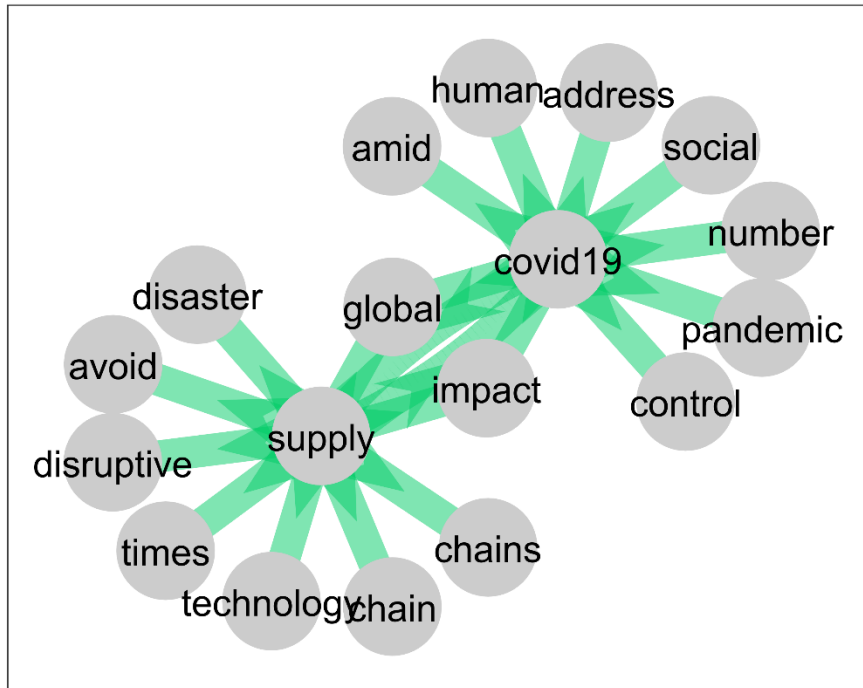
10×3 table

Ngram		Count	NgramLength	
"corporate"	"social" "responsibility"	4	3	3
"covid19"	"trade" "restriction"	3	3	3
"trade"	"restriction" "possible"	3	3	3
"restriction"	"possible" "response"	3	3	3
"possible"	"response" "safeguard"	3	3	3
"response"	"safeguard" "food"	3	3	3
"safeguard"	"food" "security"	3	3	3
"economic"	"resiliency" "face"	3	3	3
"resiliency"	"face" "adversity"	3	3	3
"open"	"beyond" "open"	3	3	3









**Text Data: Trigrams**



### 3. Literature

Aria, M., Cuccurullo, C. 2017. bibliometrix : An R-tool for comprehensive science mapping analysis.

*Journal of Informetrics*, **11(4)**: 959-975. doi:10.1016/j.joi.2017.08.007

Mathworks. 2020. *Matlab's Text Analytics Toolbox™: User guide*. Natick: Mathworks.

### 4. Appendix – Excerpt of results obtained by R package Bibliometrix&Biblioshiny

### Three-Fields Plot

Apply!

Middle Field

Keywords

Middle Field: Number of items

1 26 50

Left Field

Authors

Left Field: Number of items

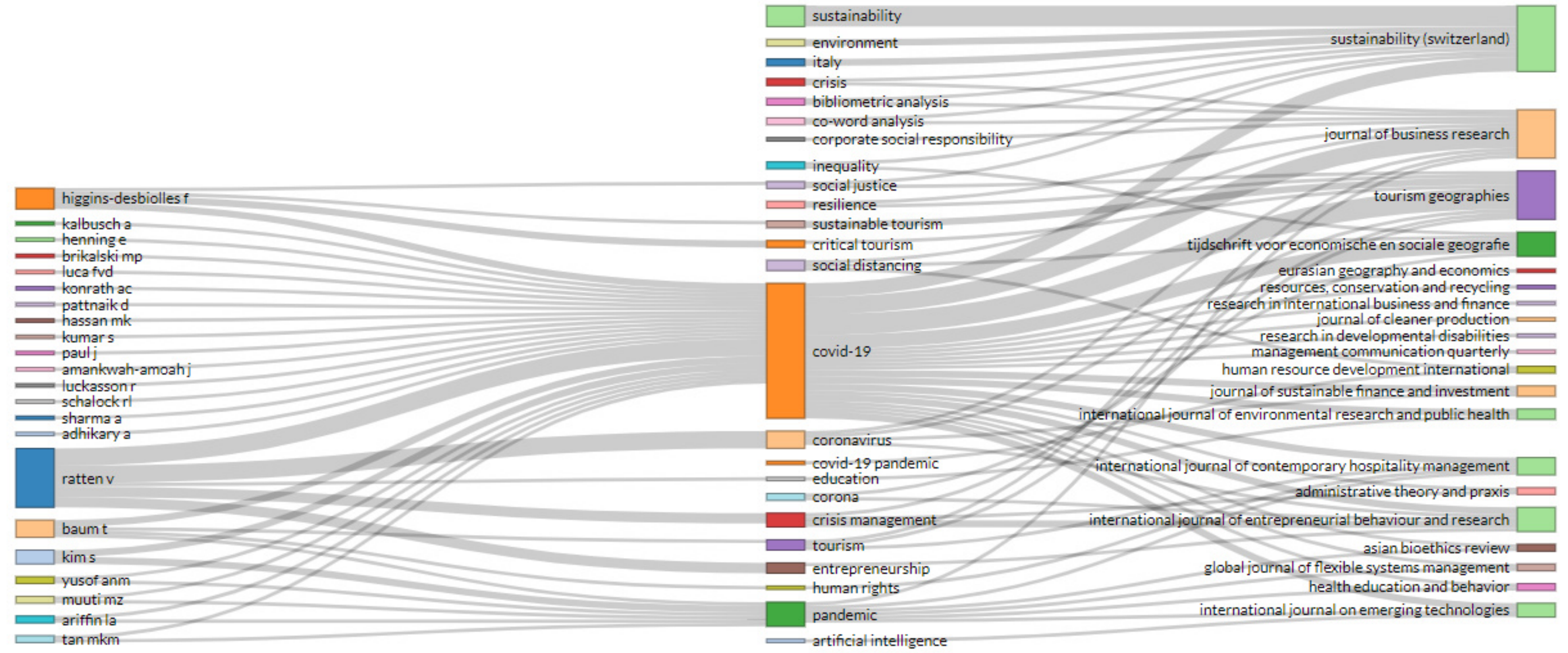
1 26 50

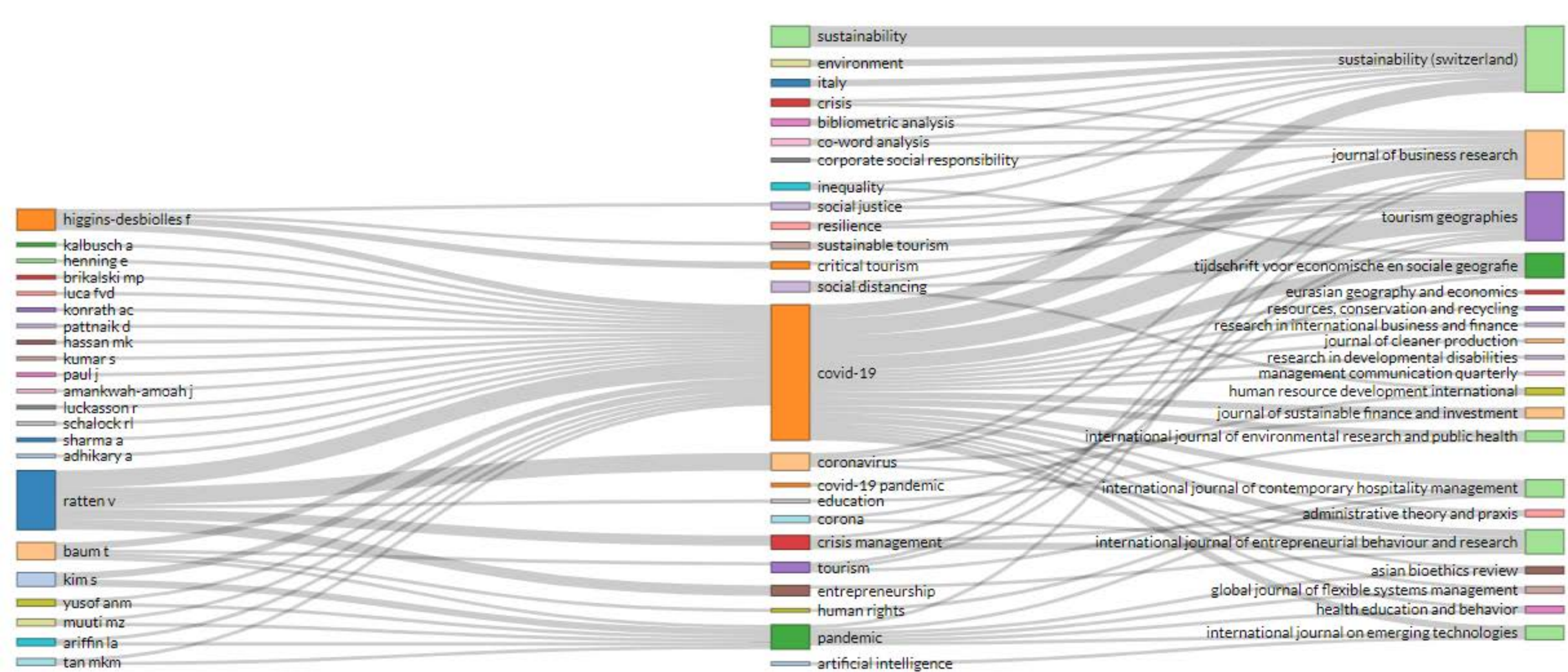
Right Field

Sources

Right Field: Number of items

1 26 50





### Three-Fields Plot

Apply!

Middle Field

Keywords

Middle Field: Number of items

1 26 50

Left Field

Titles

Left Field: Number of items

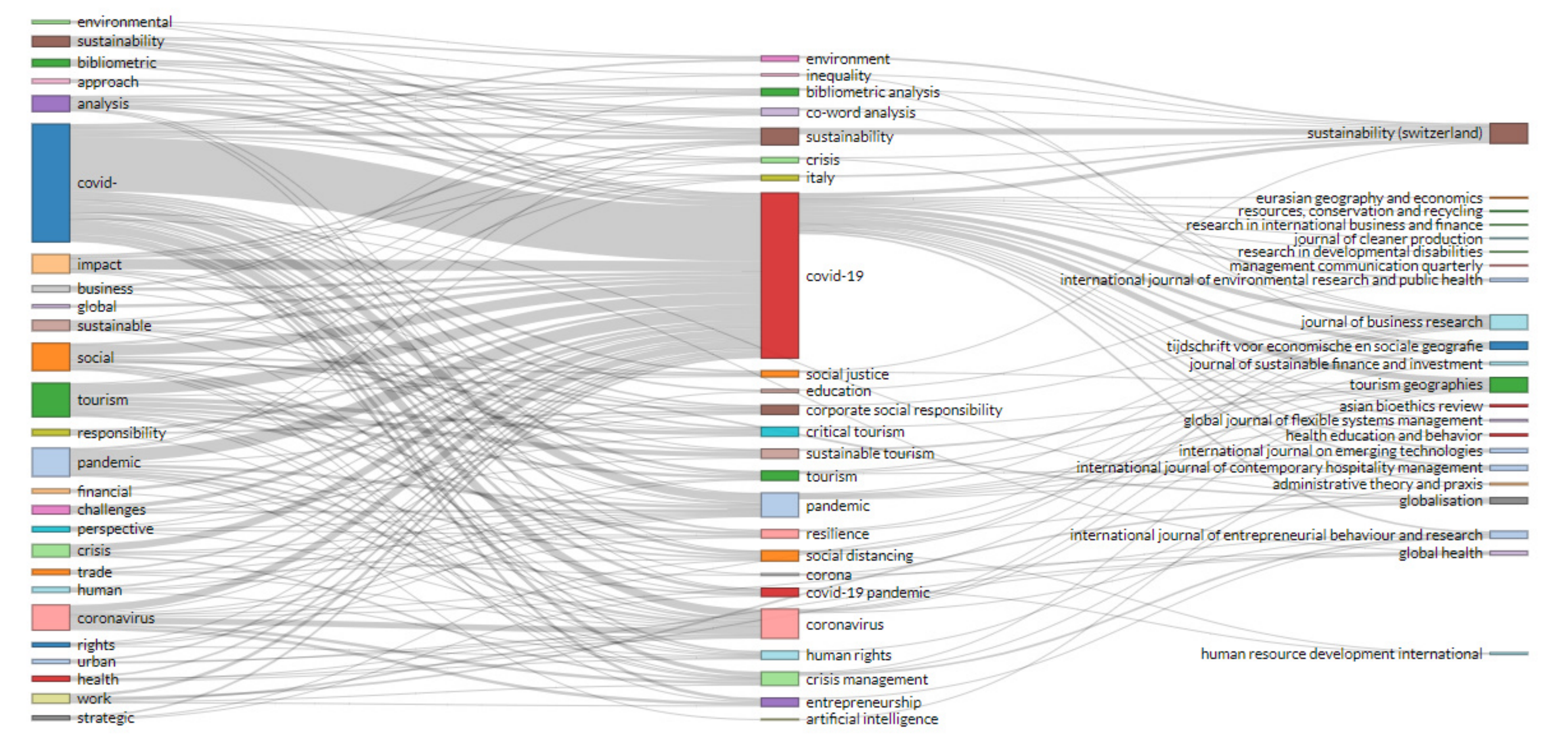
1 26 50

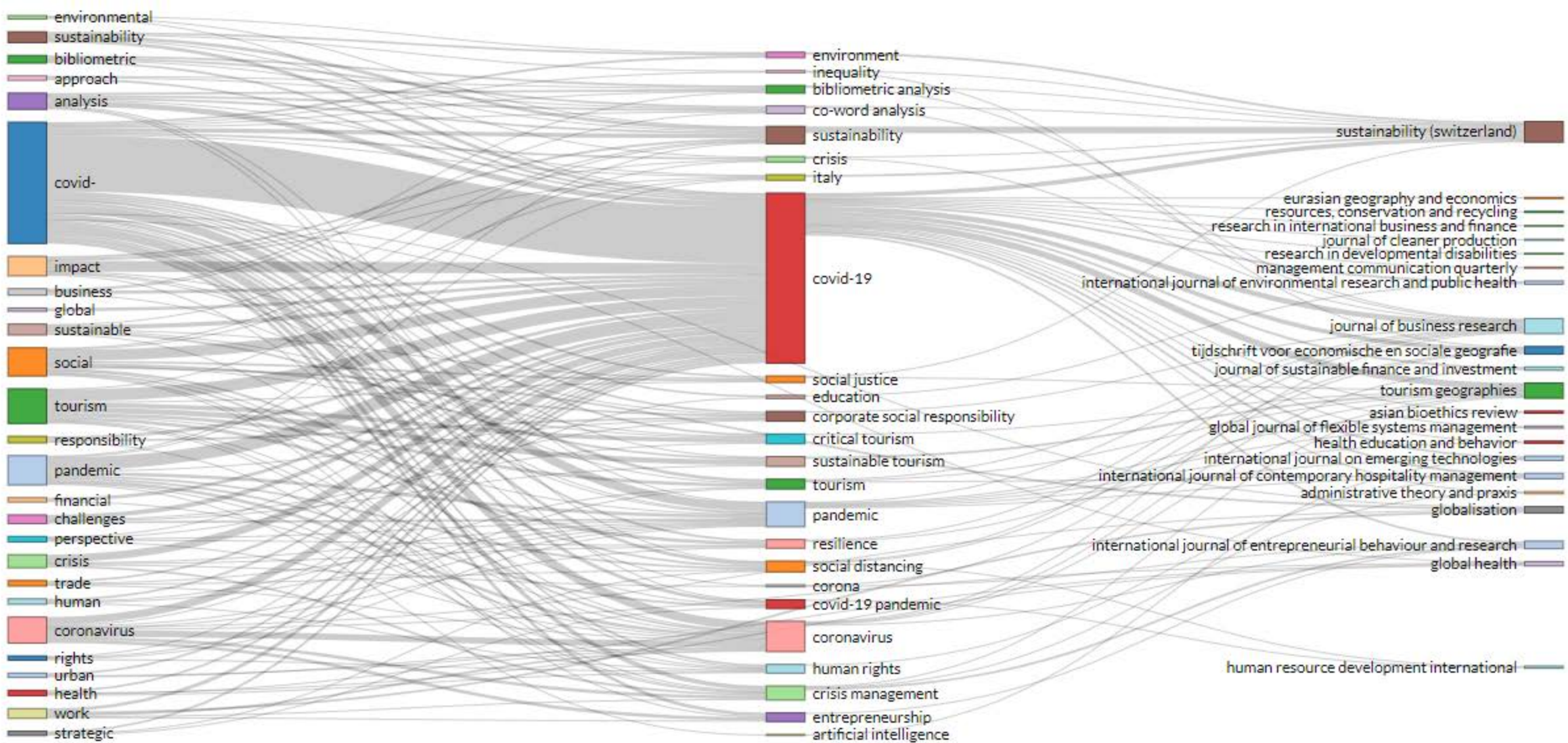
Right Field

Sources

Right Field: Number of items

1 26 50





### Three-Fields Plot

Apply!

Middle Field

Abstract

Middle Field: Number of items

1 26 50

Left Field

Titles

Left Field: Number of items

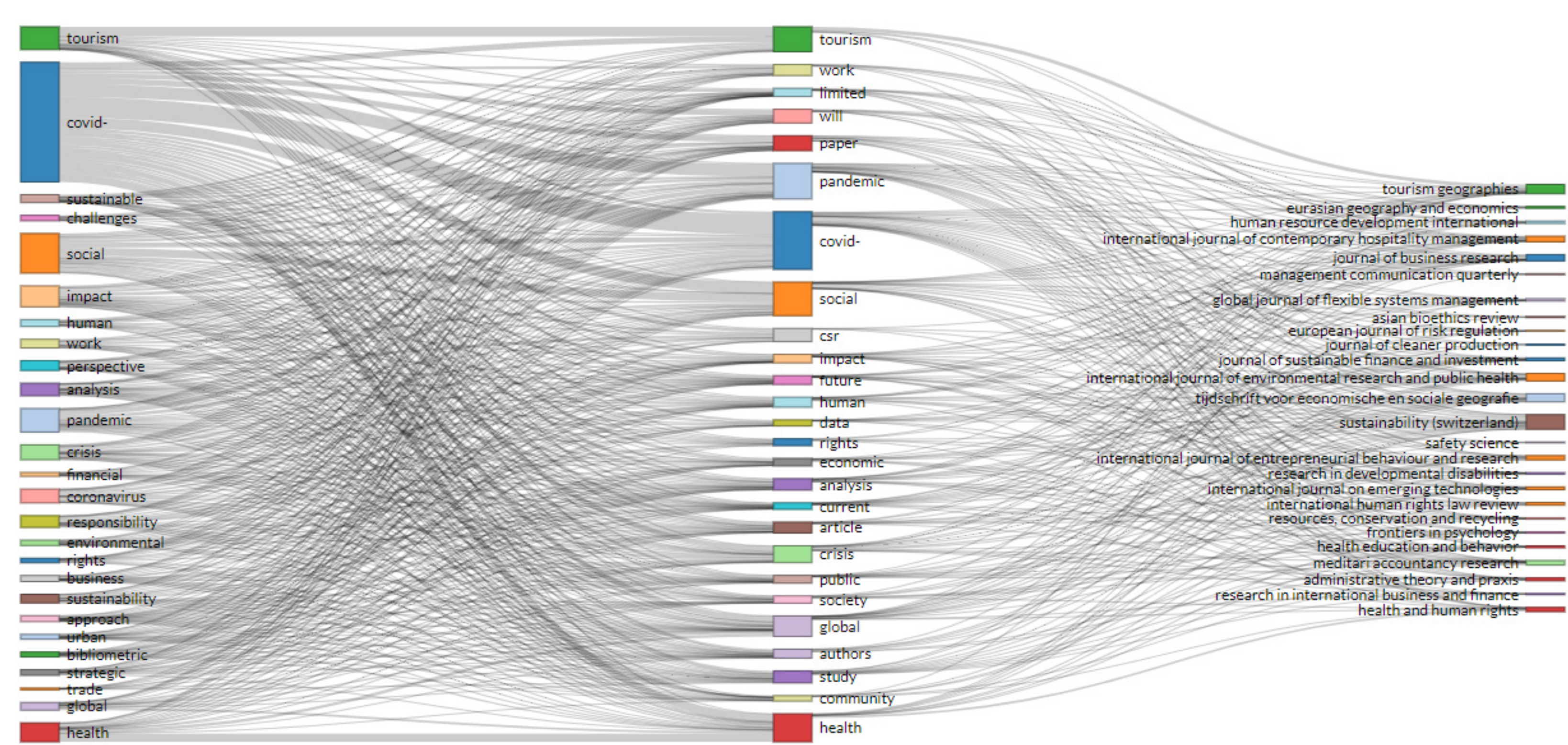
1 26 50

Right Field

Sources

Right Field: Number of items

1 26 50



### Three-Fields Plot

Apply!

Middle Field

Countries

Middle Field: Number of items

1 26 50

Left Field

Titles

Left Field: Number of items

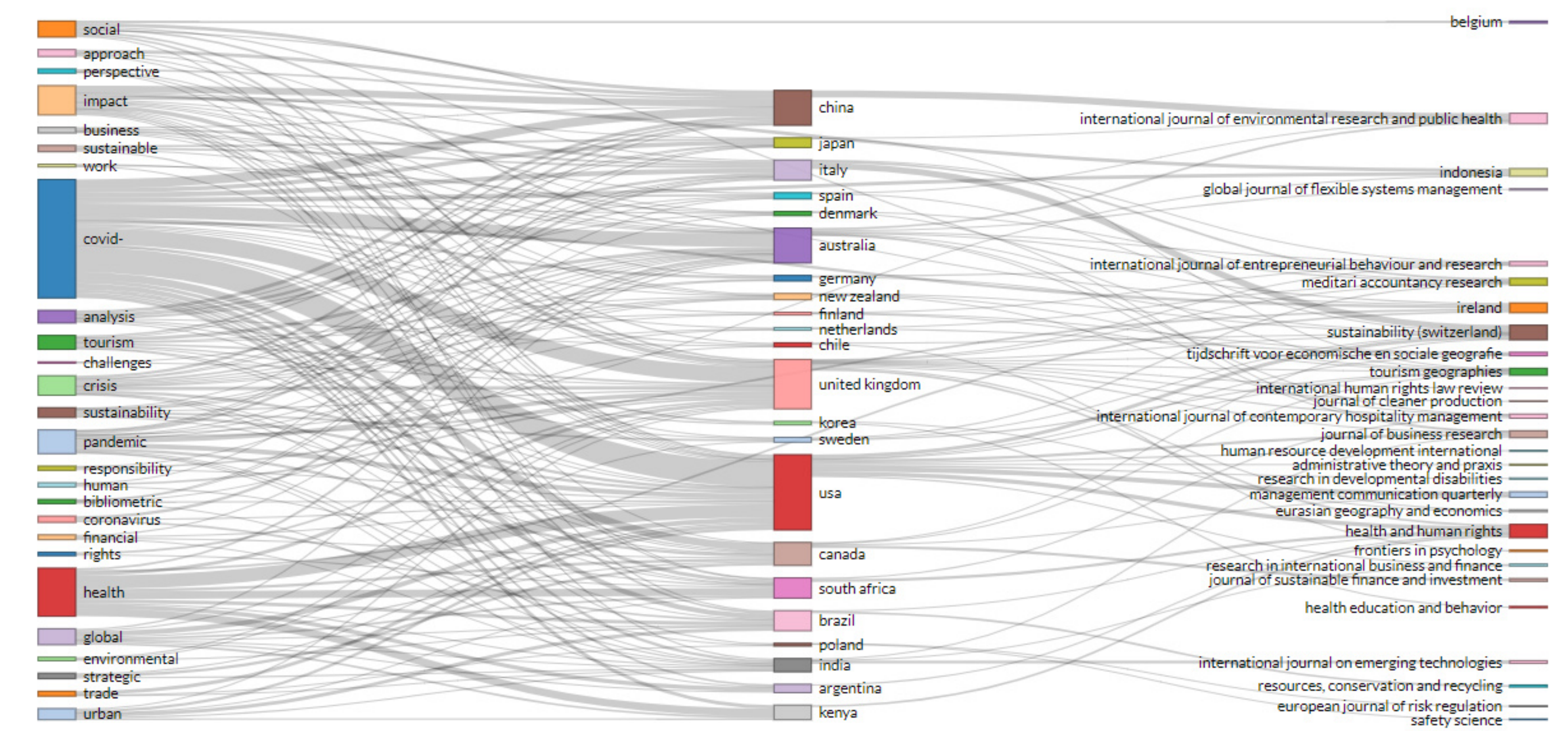
1 26 50

Right Field

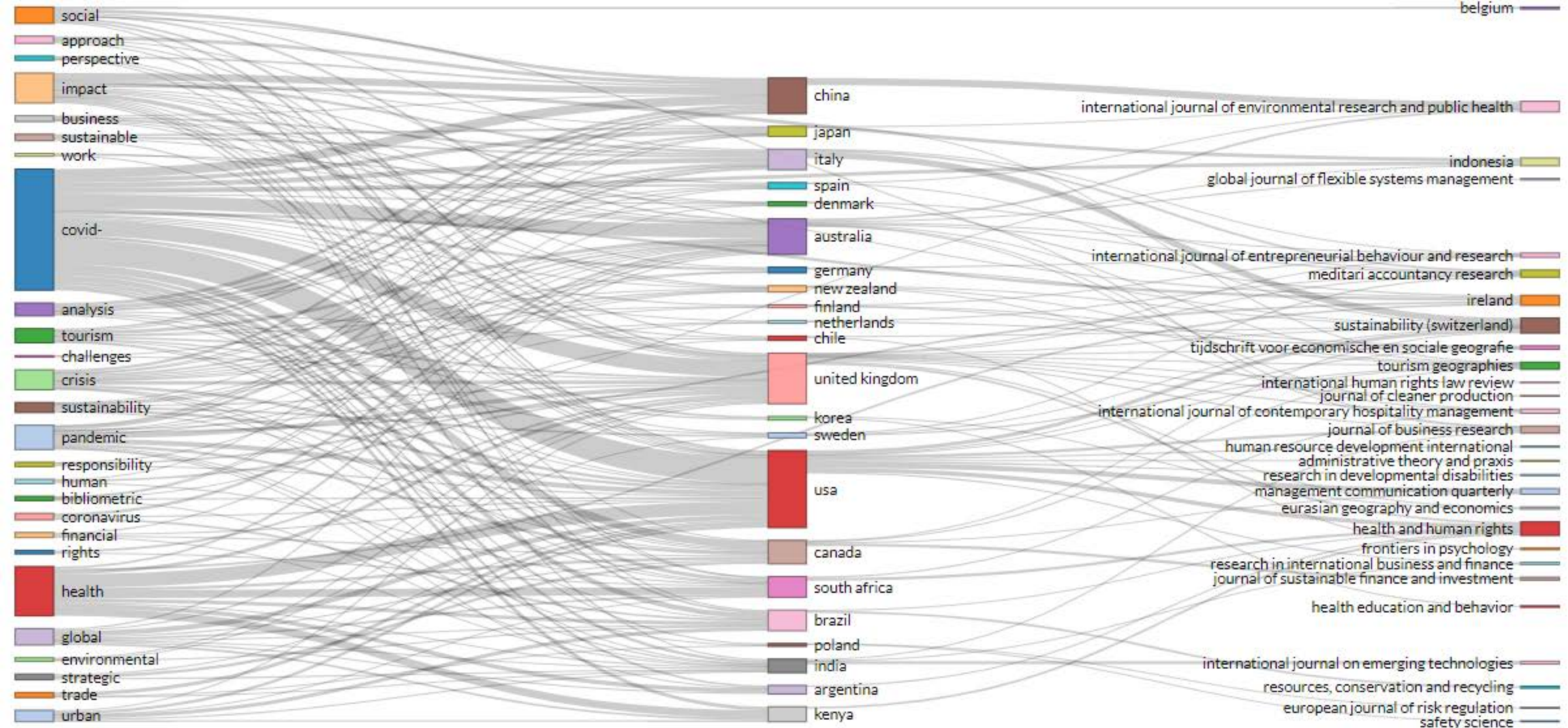
Sources

Right Field: Number of items

1 26 50







### Three-Fields Plot

Apply!

Middle Field

Countries

Middle Field: Number of items

1 26 50

Left Field

Keywords

Left Field: Number of items

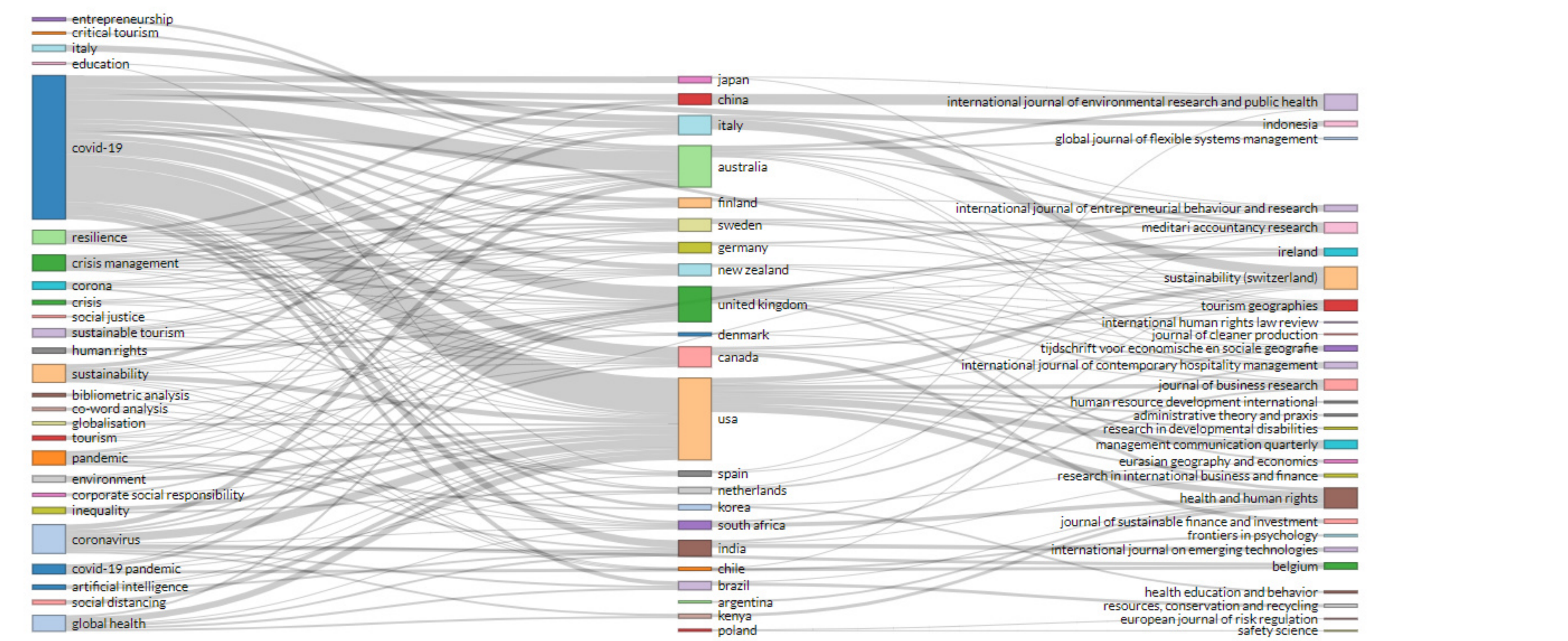
1 26 50

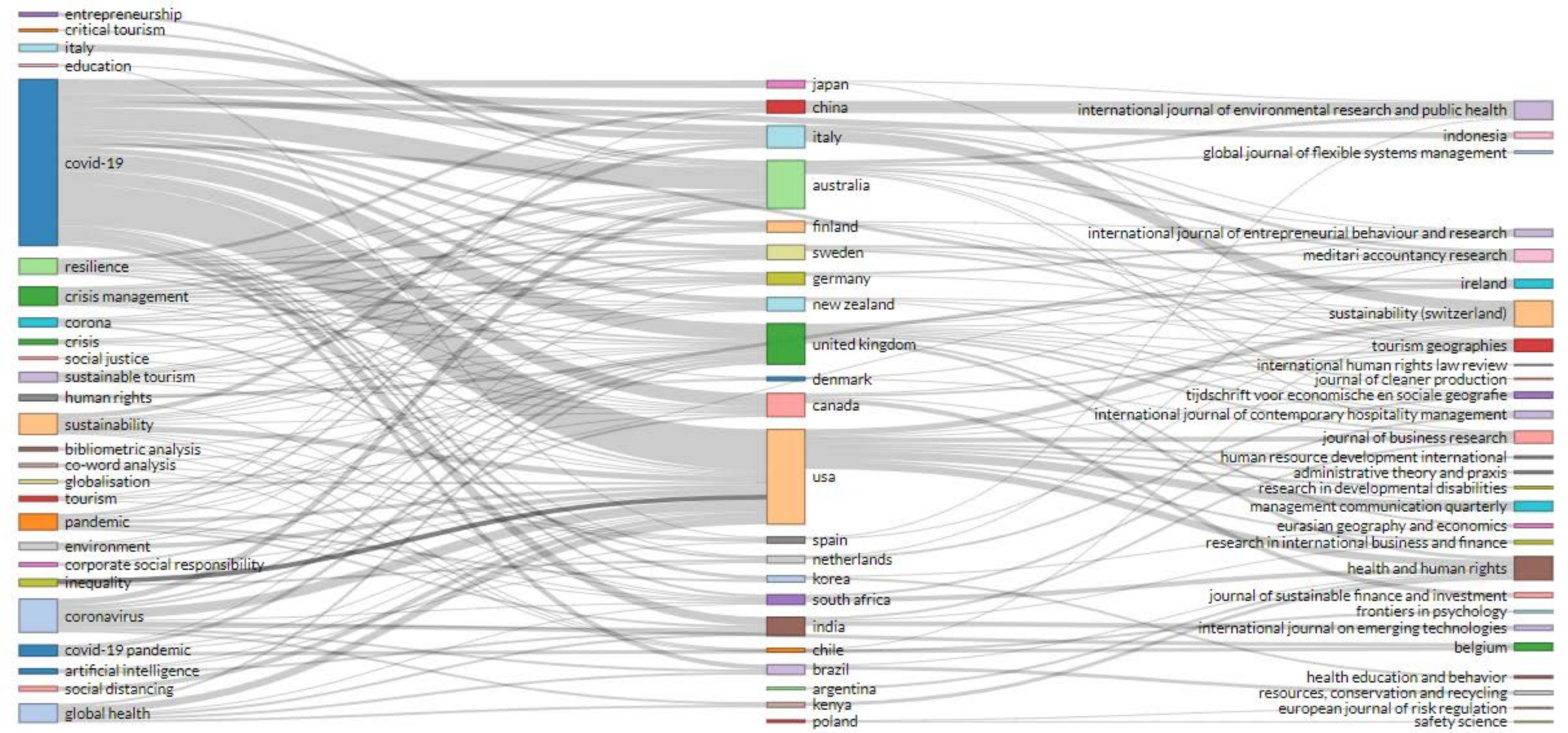
Right Field

Sources

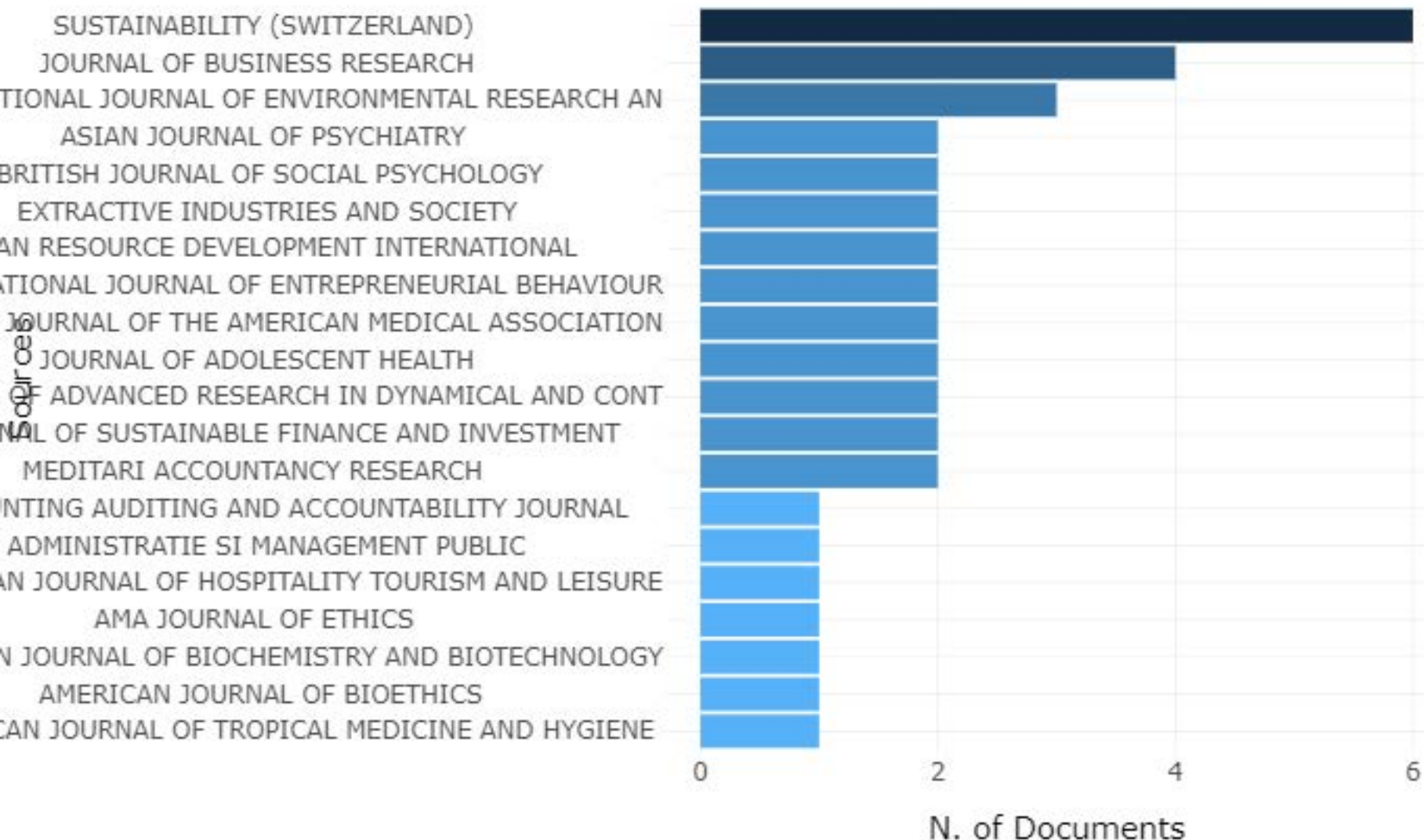
Right Field: Number of items

1 26 50

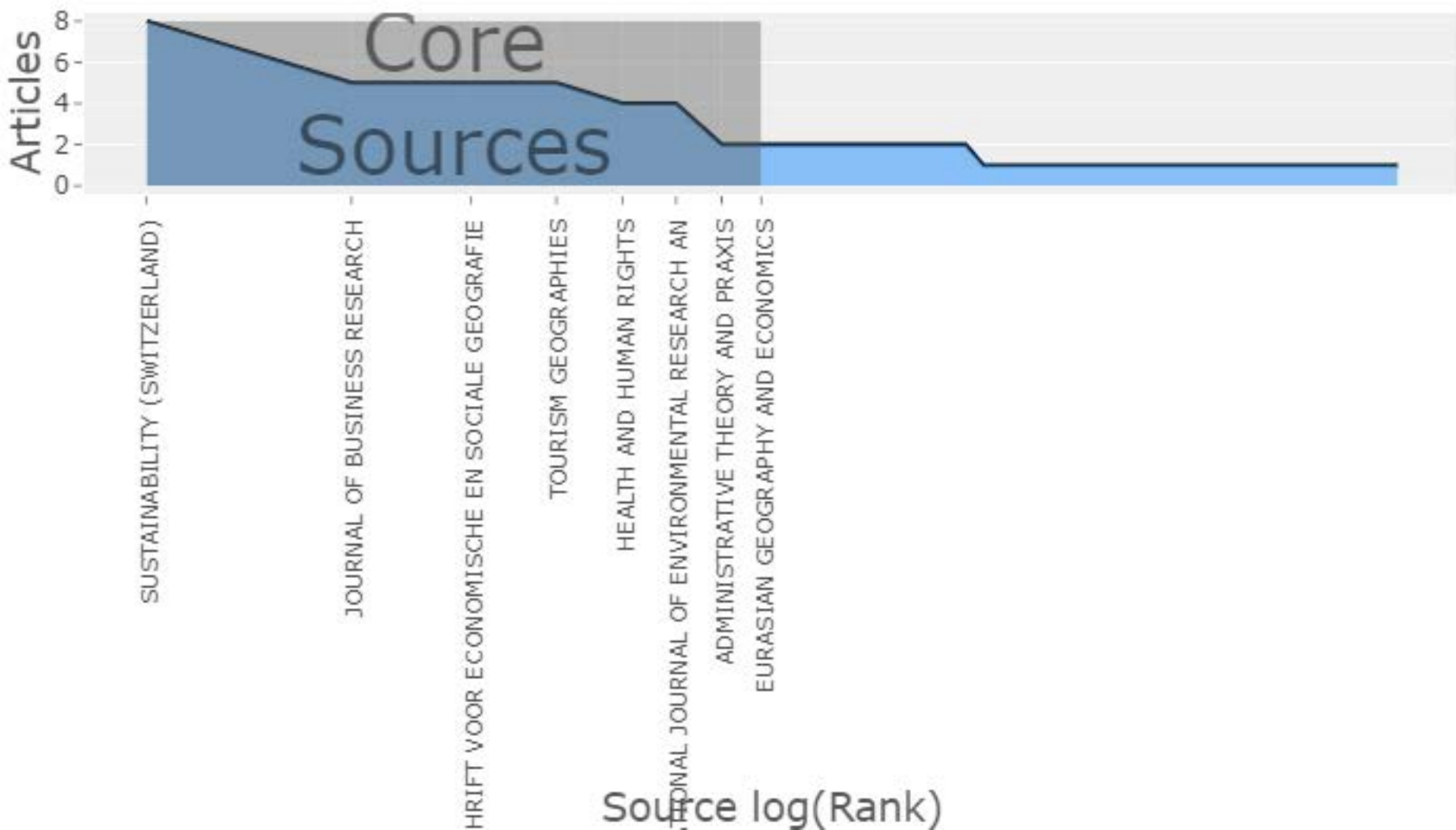




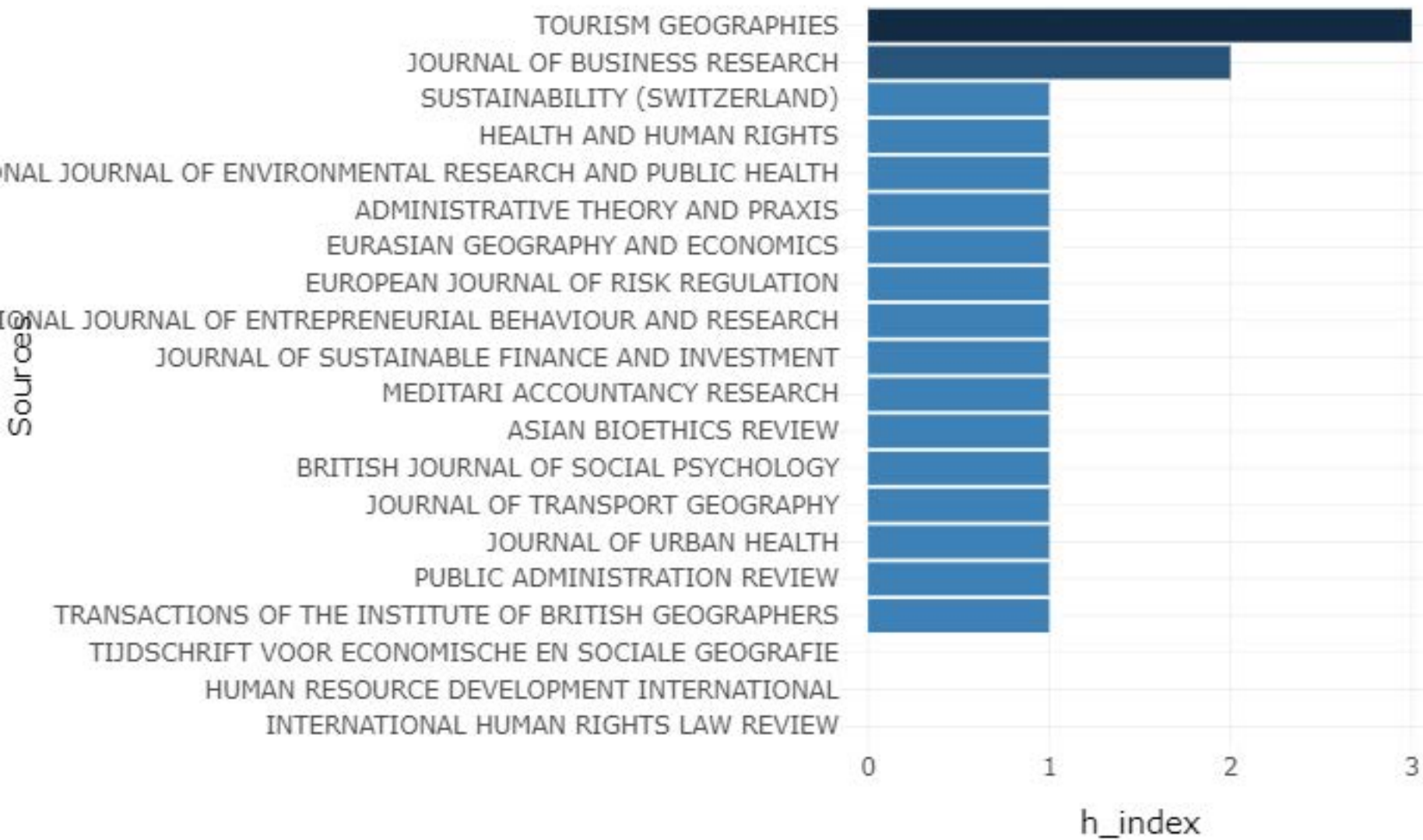
## Most Relevant Sources



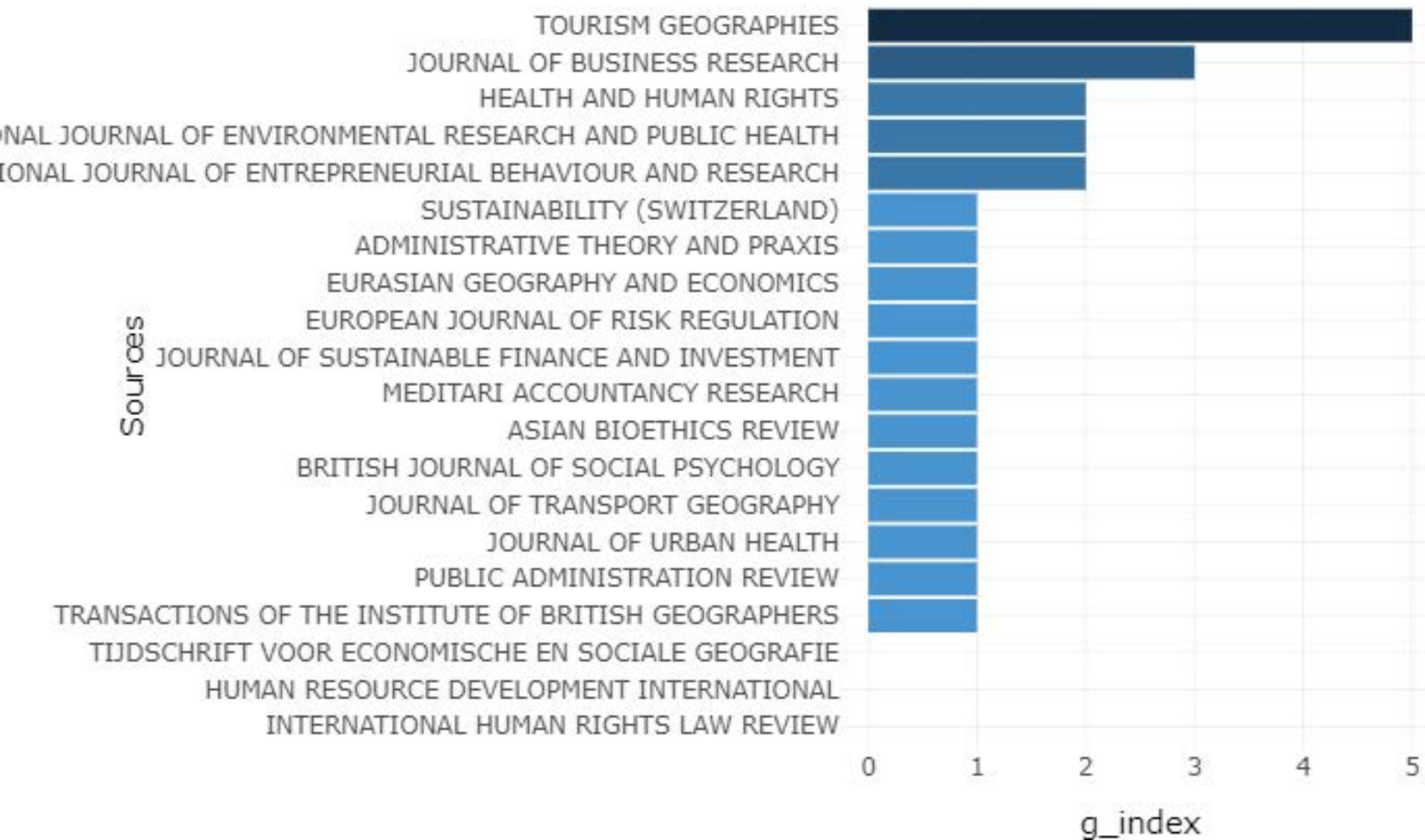
# Bradford's Law



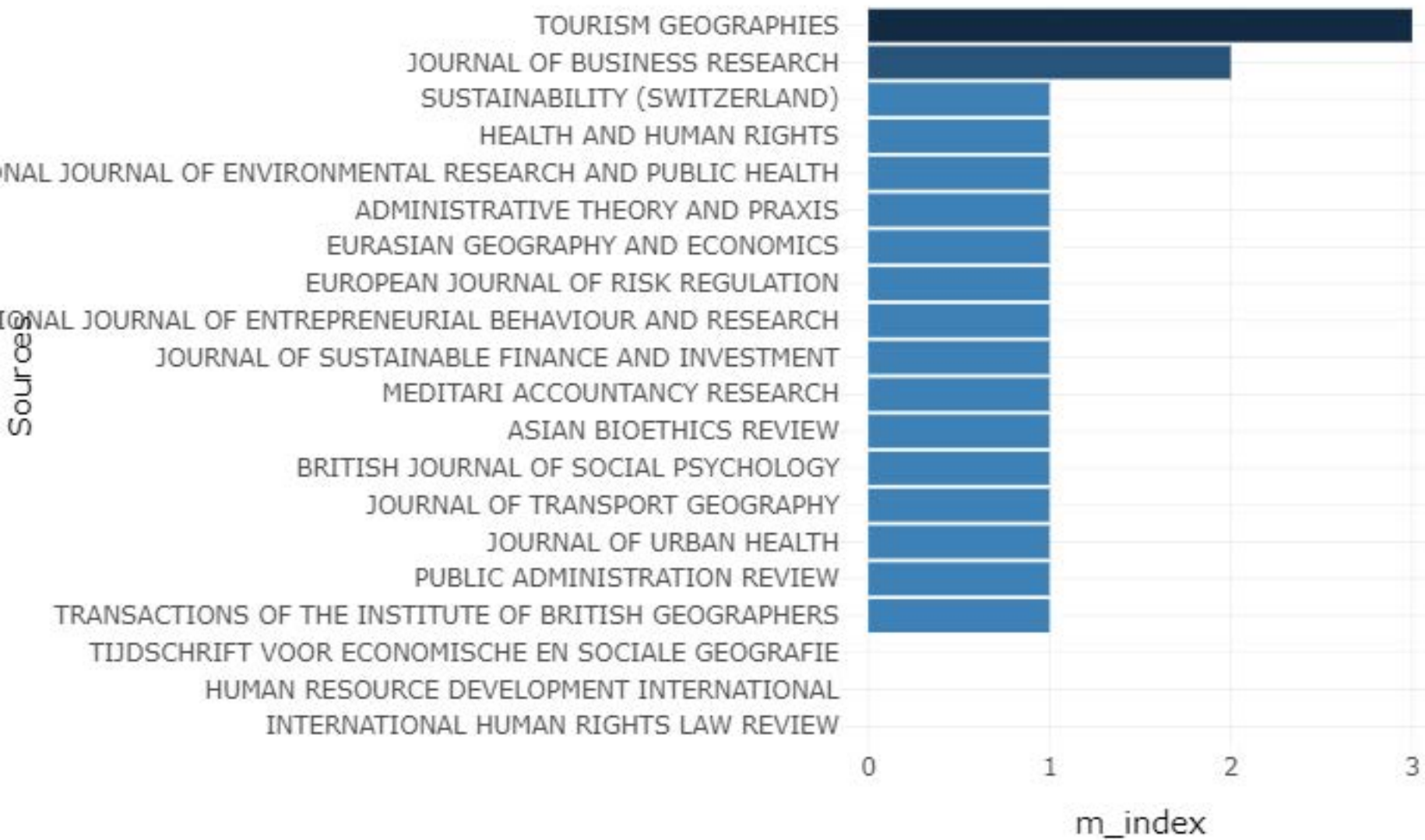
## Source Impact



## Source Impact

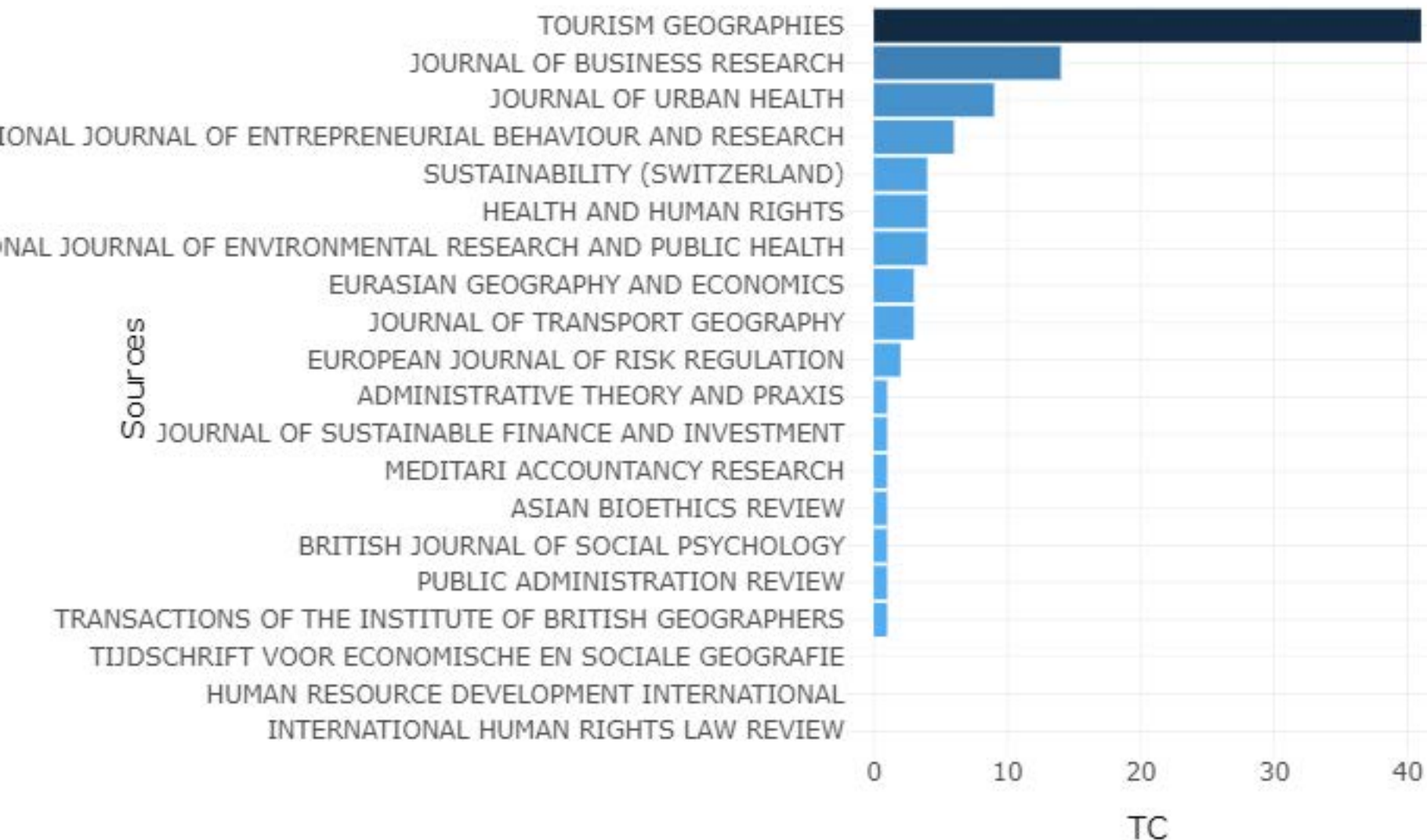


## Source Impact





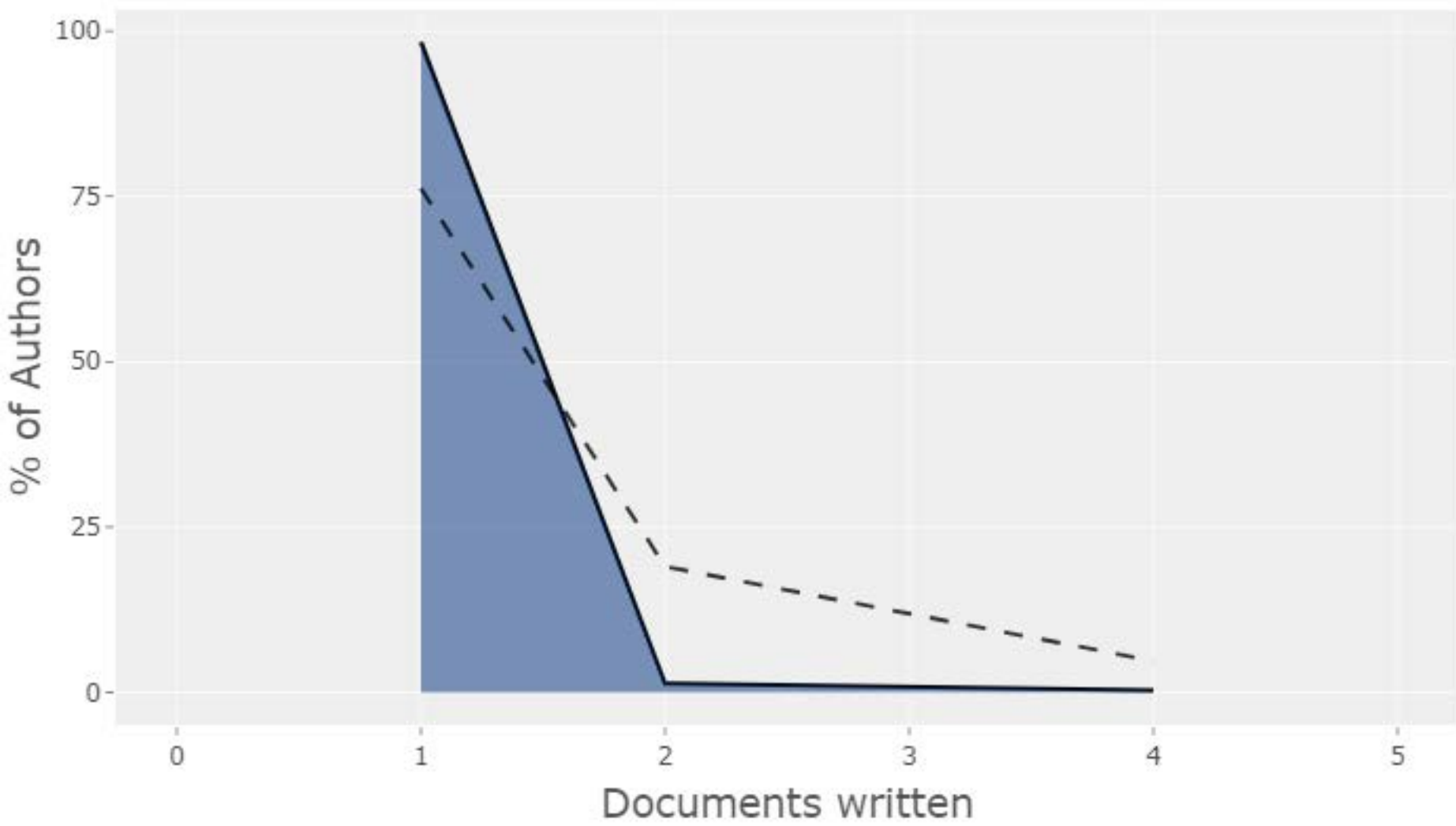
## Source Impact



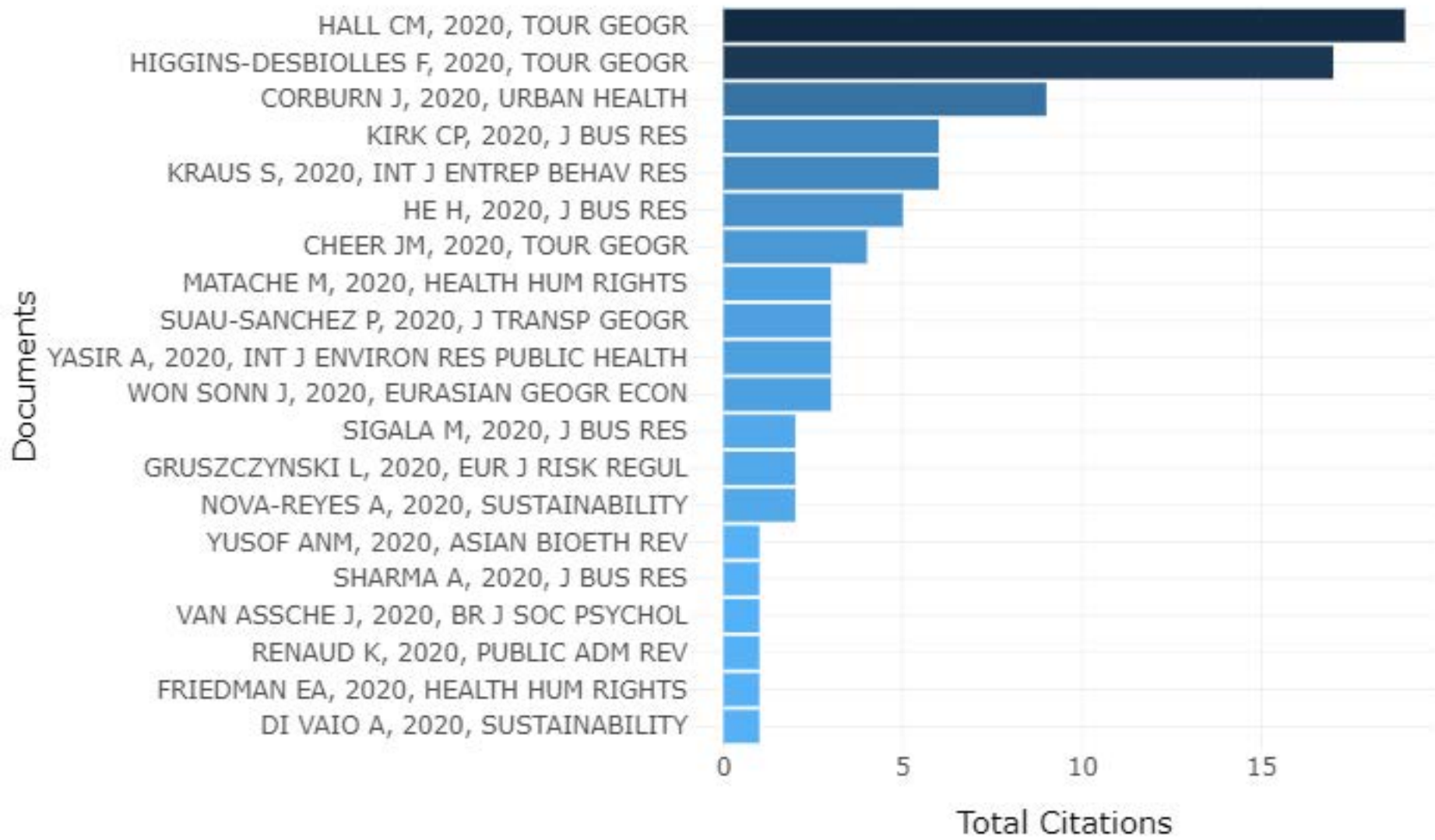
# Top-Authors' Production over th



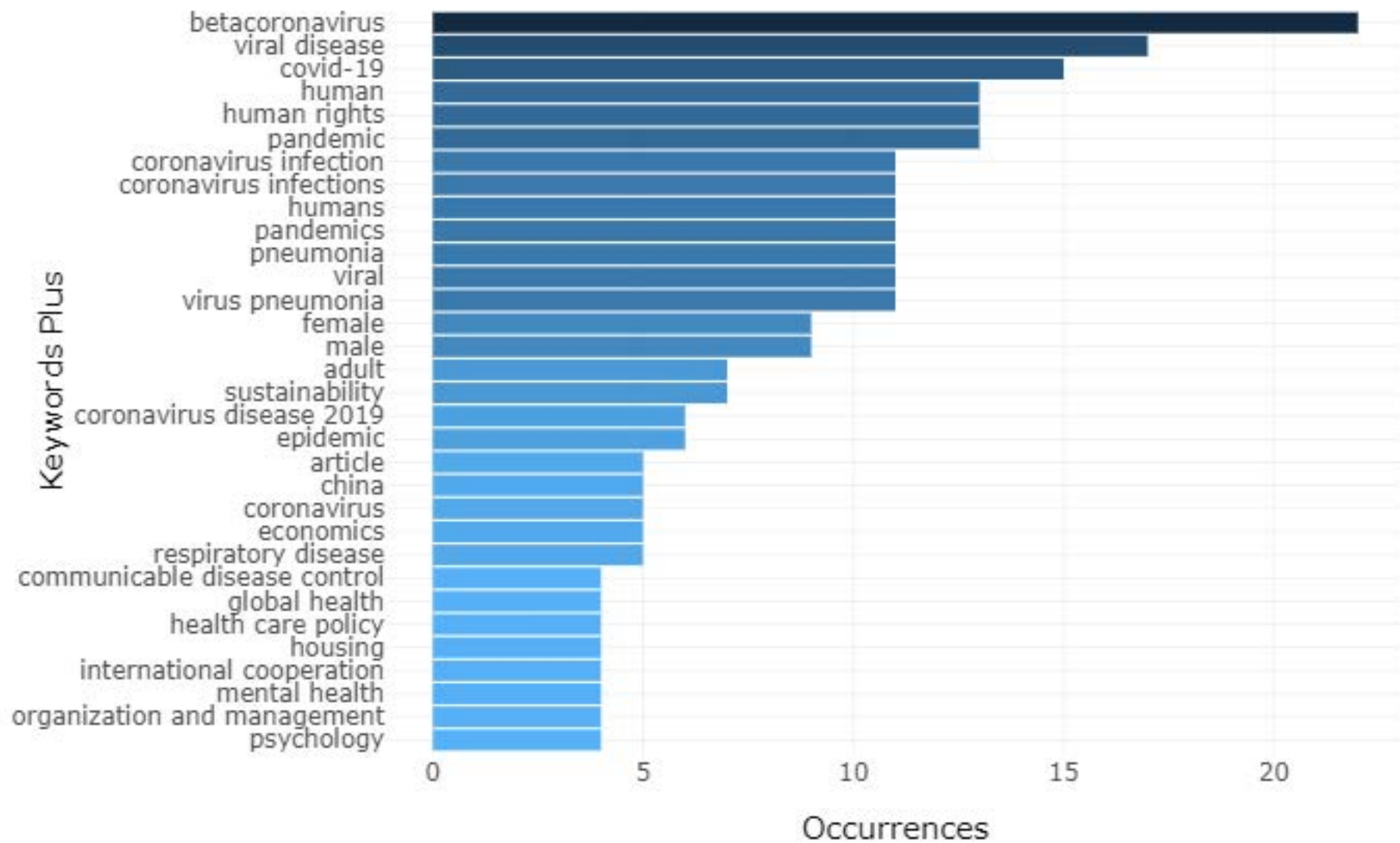
# The Frequency Distribution of Scientific



## Most Cited Documents

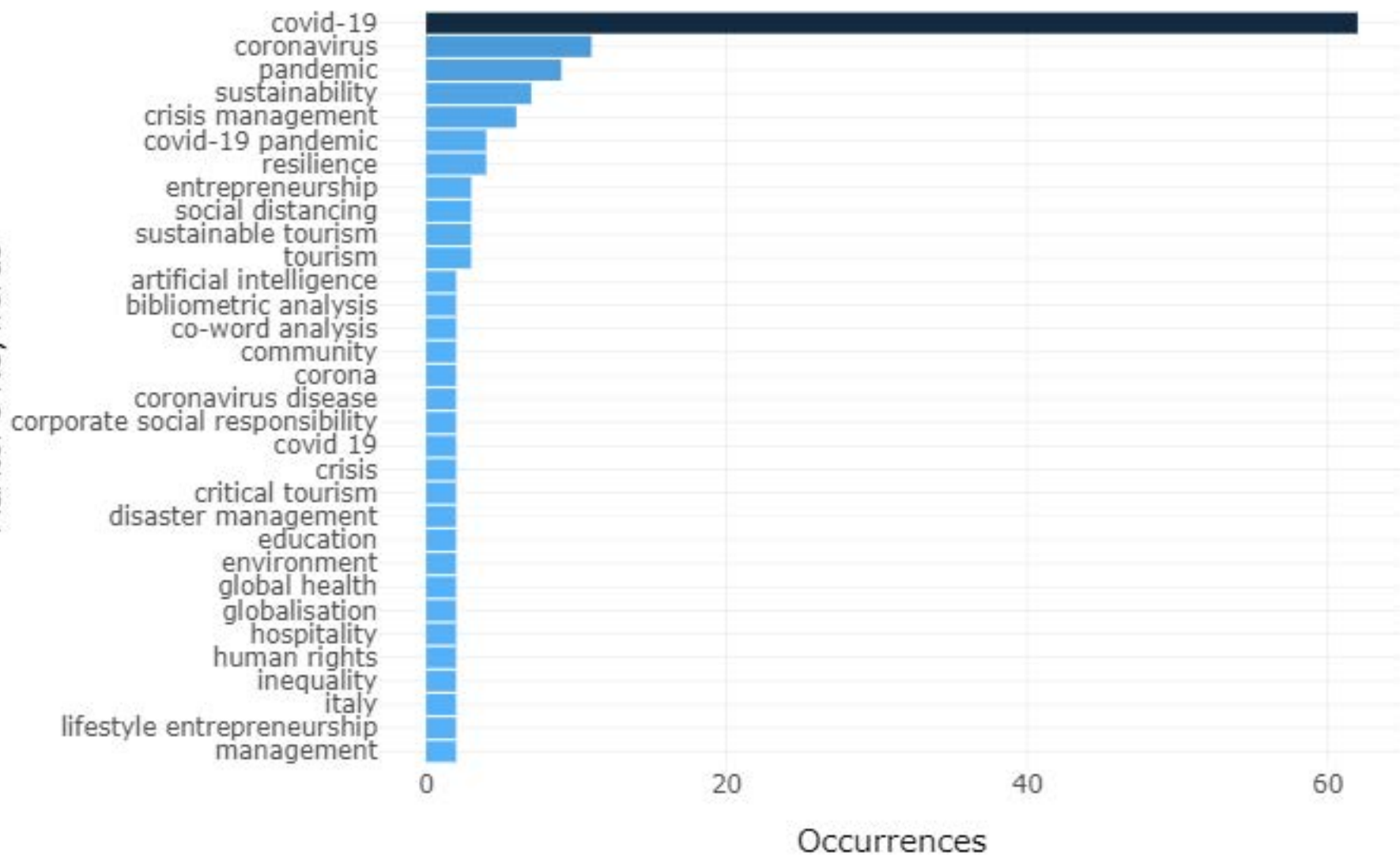


## Most Relevant Words

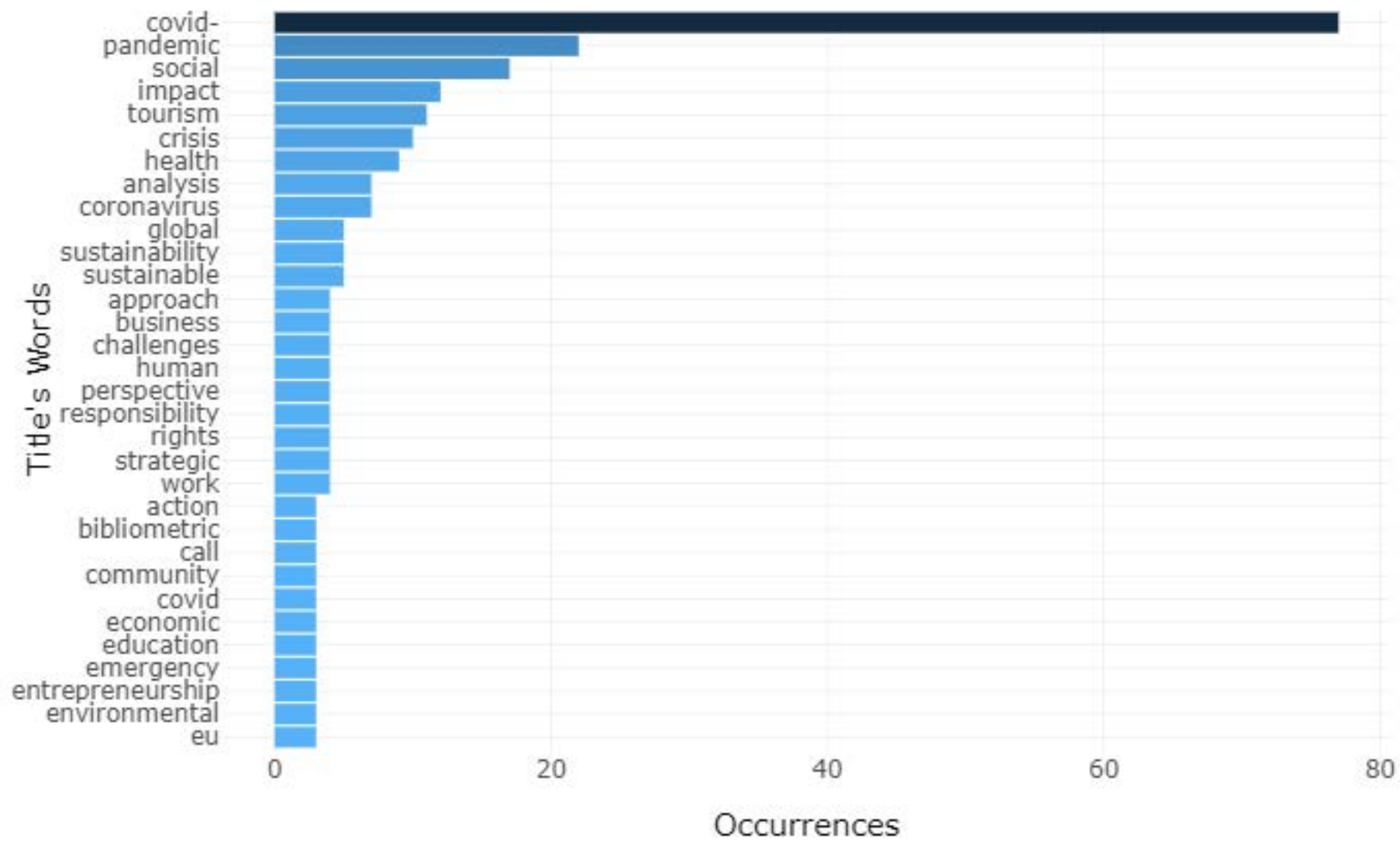


## Most Relevant Words

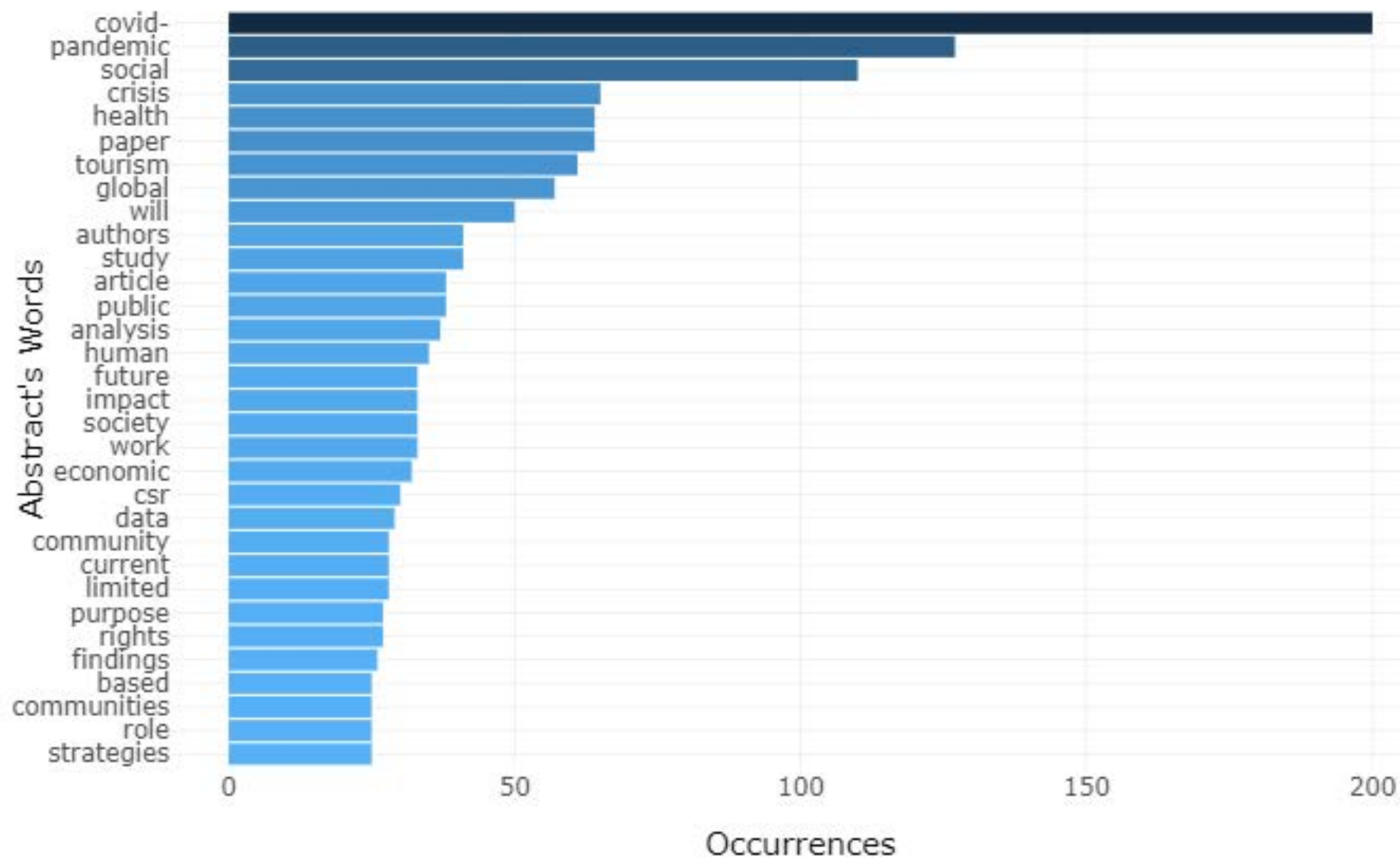
Author's Keywords



## Most Relevant Words

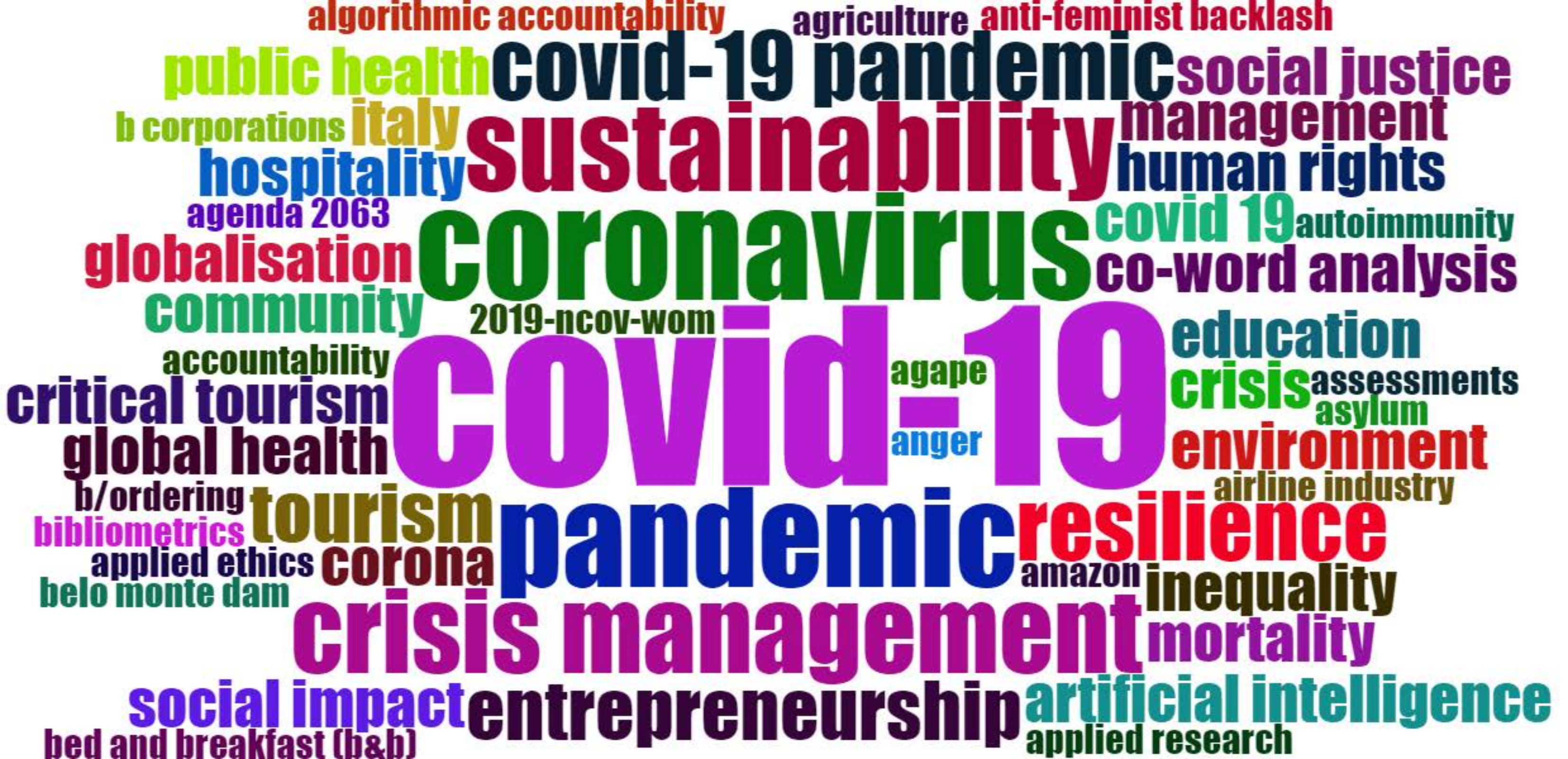


## Most Relevant Words







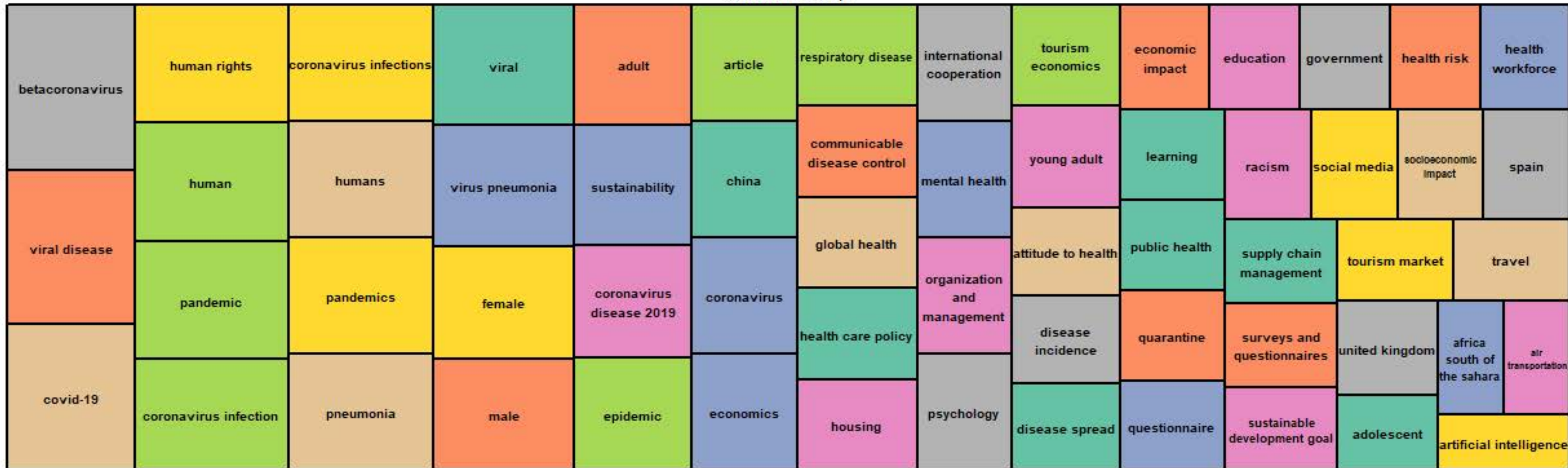


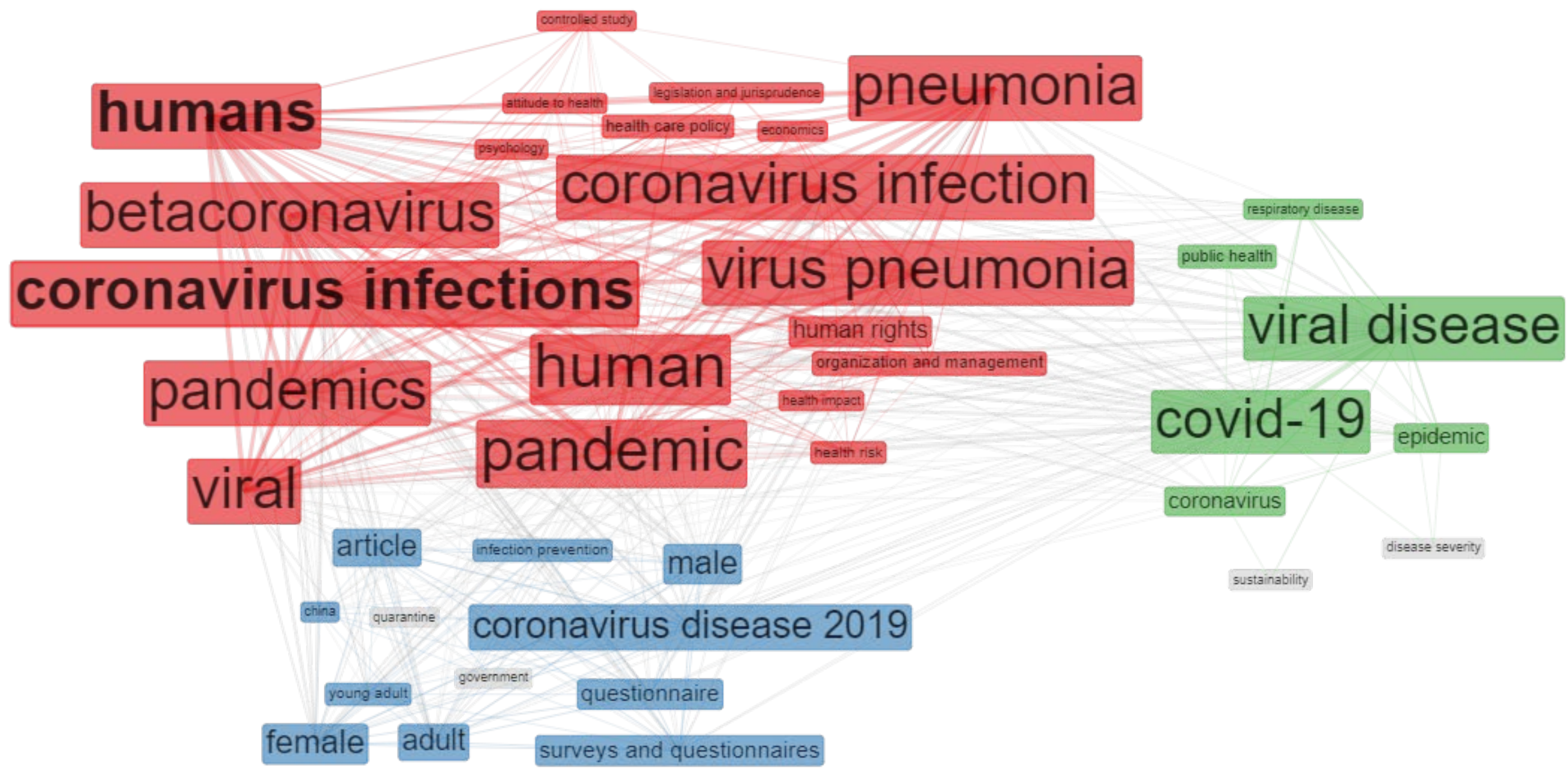
A word cloud featuring various terms related to the COVID-19 pandemic. The most prominent words are 'COVID', 'pandemic', 'crisis', 'social', 'coronavirus', 'health', 'impact', 'analysis', 'tourism', and 'business'. Other visible words include 'responsibility', 'strategic', 'emergency', 'bibliometric', 'human', 'economic', 'rights', 'times', 'perspective', 'factors', 'global', 'sustainable', 'justice', 'urban', 'approach', 'education', 'work', 'challenges', 'action', and 'community'. The words are rendered in a variety of colors and sizes, creating a dense and colorful composition.

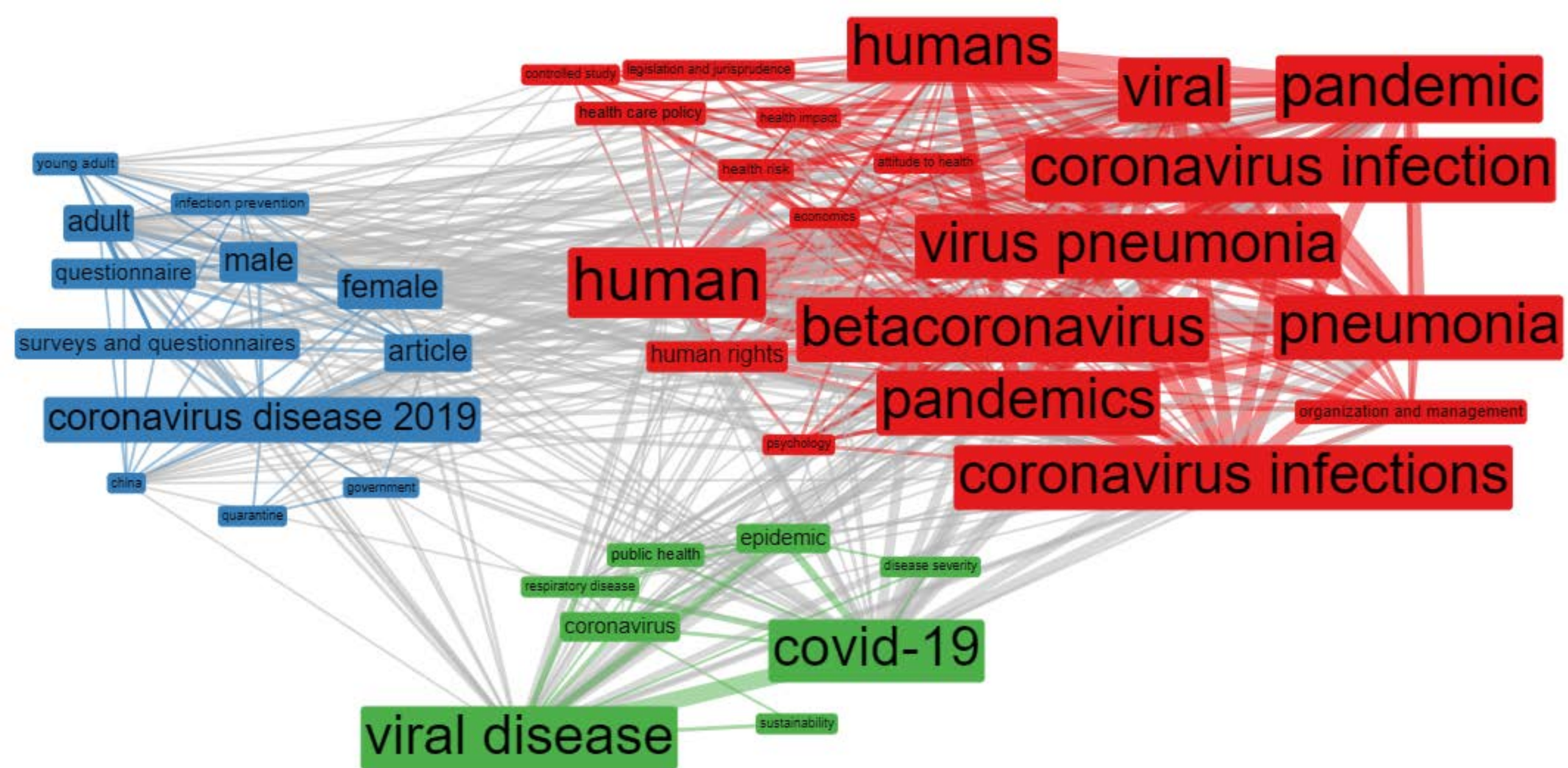
responsibility strategic emergency  
european sustainability tourism bibliometric  
times rights pandemic business economic  
perspective crisis covid  
factors global eu call trade  
sustainable health future  
justice analysis social coronavirus  
urban approach impact challenges  
education work action community



Word TreeMap







# Co-occurrence Network

Apply! Save Pajek Save Fig

## Network Parameters:

Field

Keywords Plus

Network Layout

Automatic layout

Normalization

jaccard

Node Color by Year

No

Clustering Algorithm

Louvain

Number of Nodes



Remove Isolated Nodes

No

Min edges

2

## Graphical Parameters:

Opacity



Number of labels



Label cex

Yes

Label size



Node Shape

Box

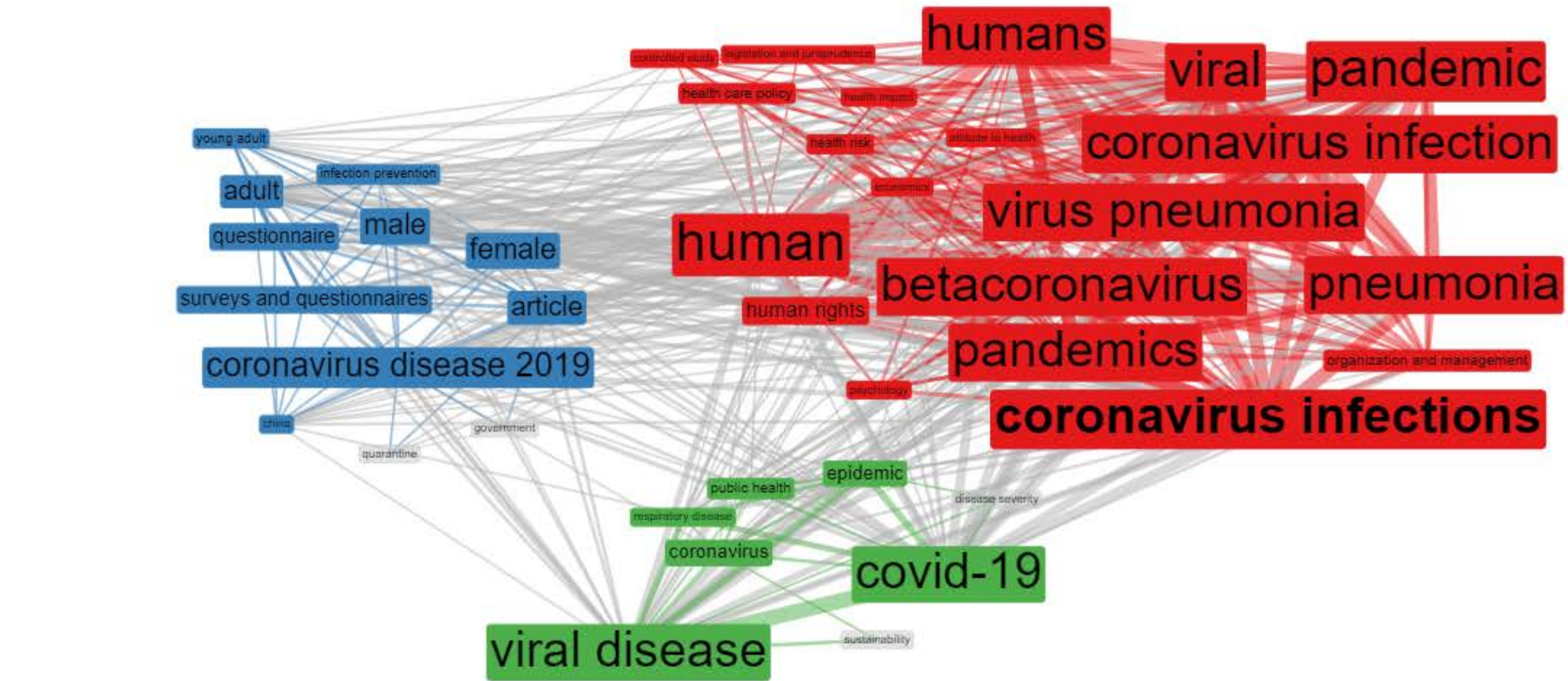
Edge size



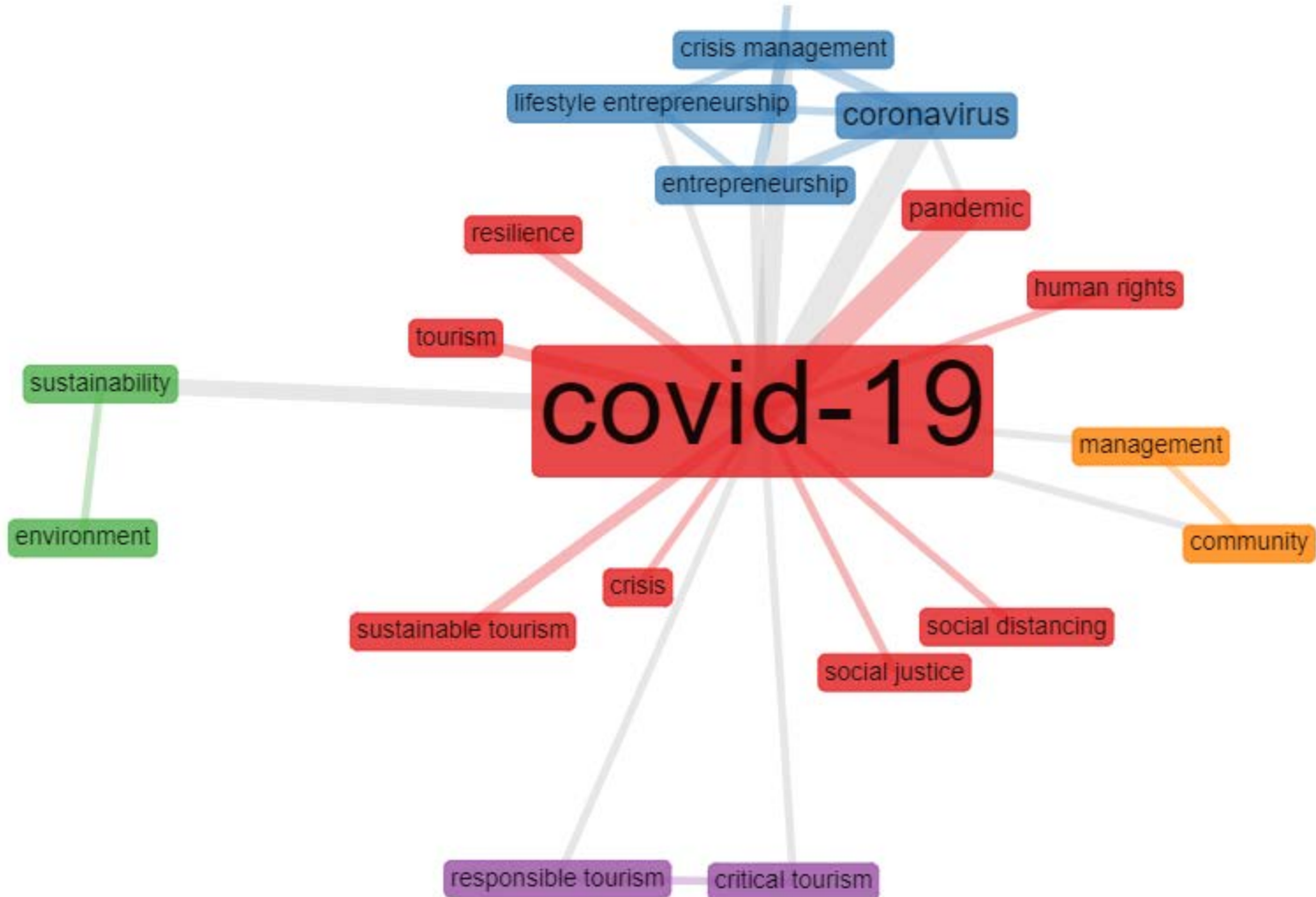
Curved edges

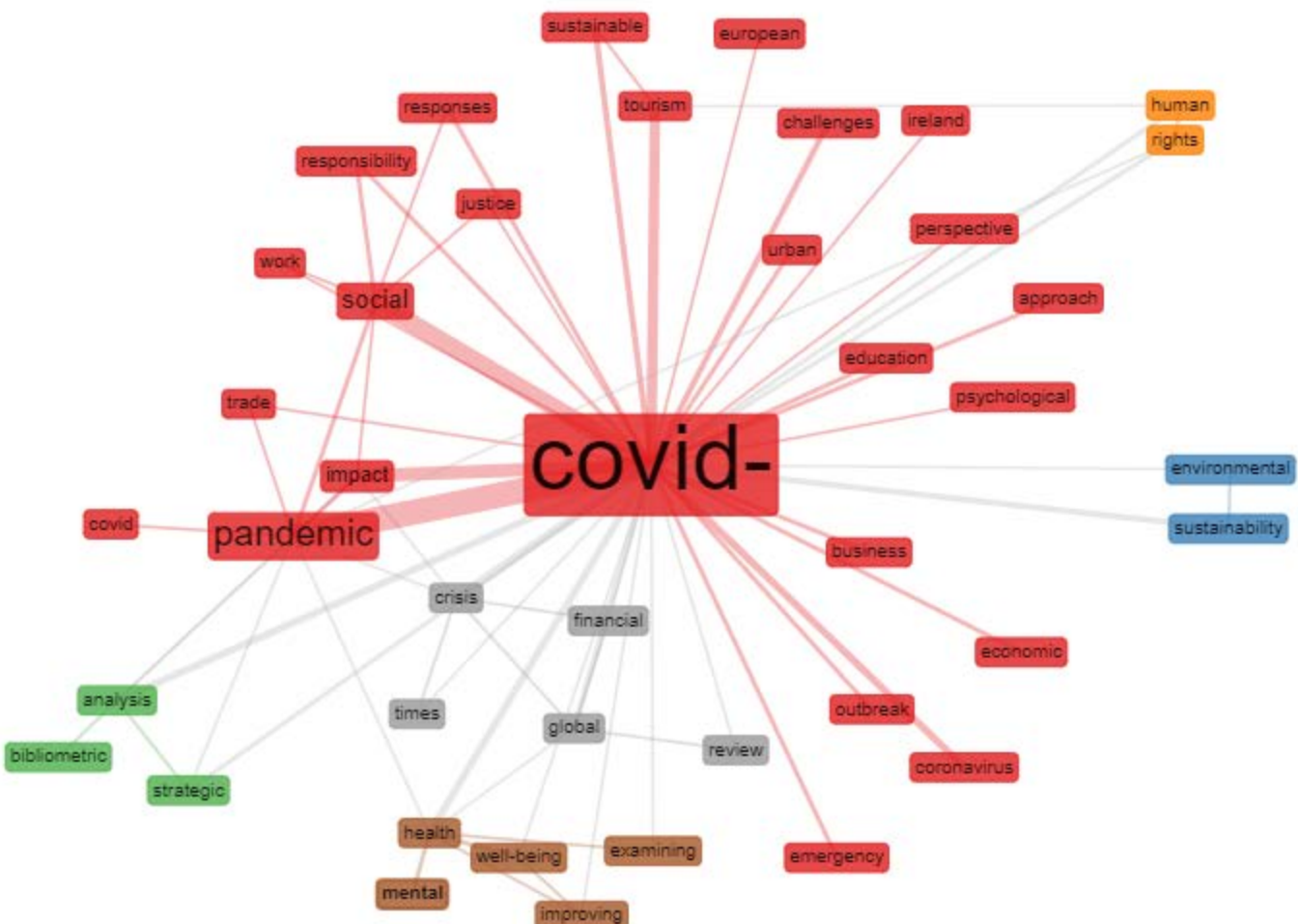
No

coronavirus infectio









# Co-occurrence Network

Apply!

Save Pajek

Save Fig

## Network Parameters:

Field

Titles

Network Layout

Automatic layout

Normalization

jaccard

jaccard

Node Color by Year

No

Clustering Algorithm

Louvain

Number of Nodes

5 52 1,000

Remove Isolated Nodes

Yes

Min edges

2

## Graphical Parameters:

Opacity

0 0.8 1

Number of labels

0 50 1,000

Label cex

Yes

Label size

0 8.6 20

Node Shape

Box

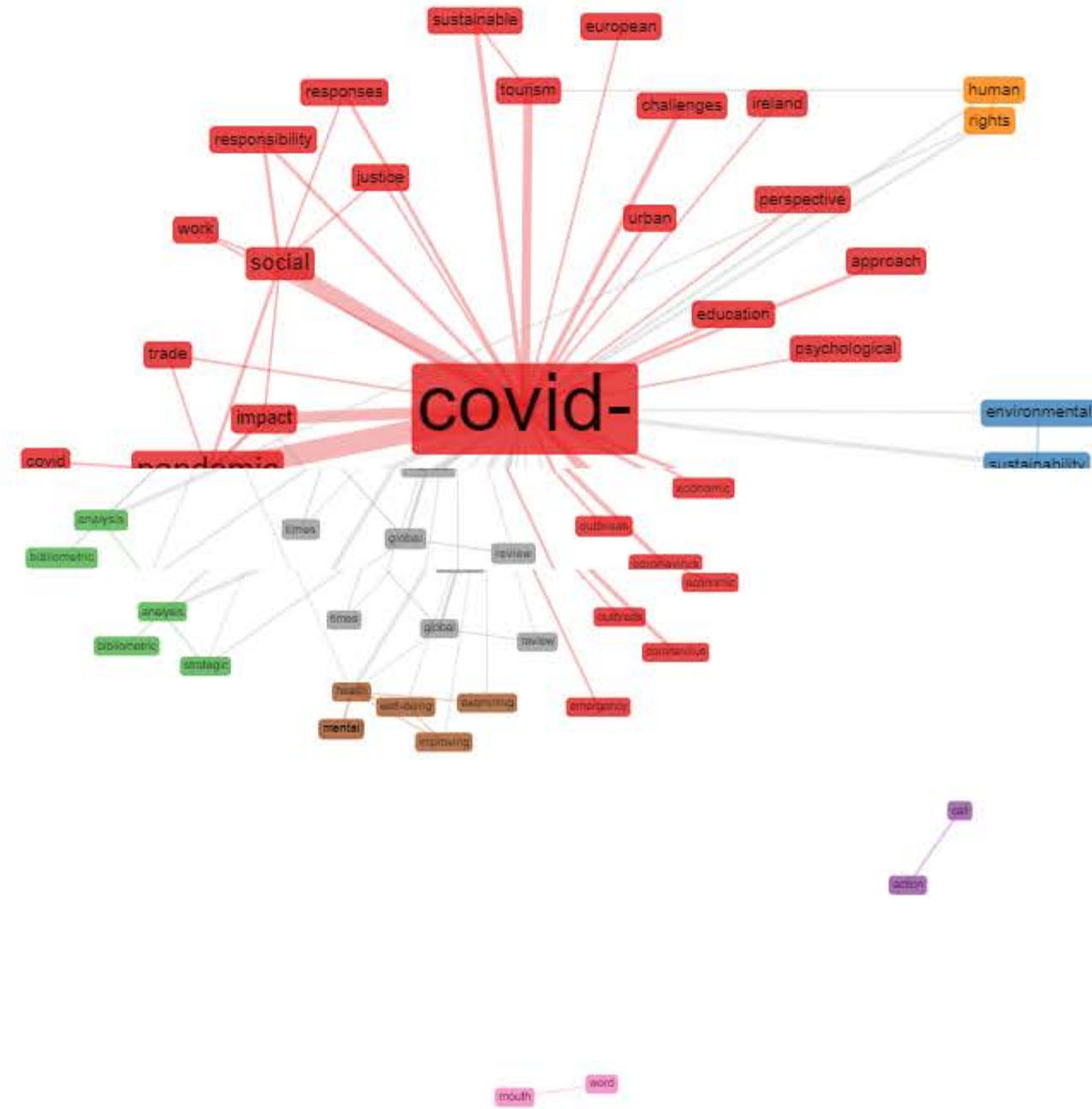
Edge size

0.1 8.9 20

Curved edges

No

Select by id





**Apply!**

**TM Parameters:**

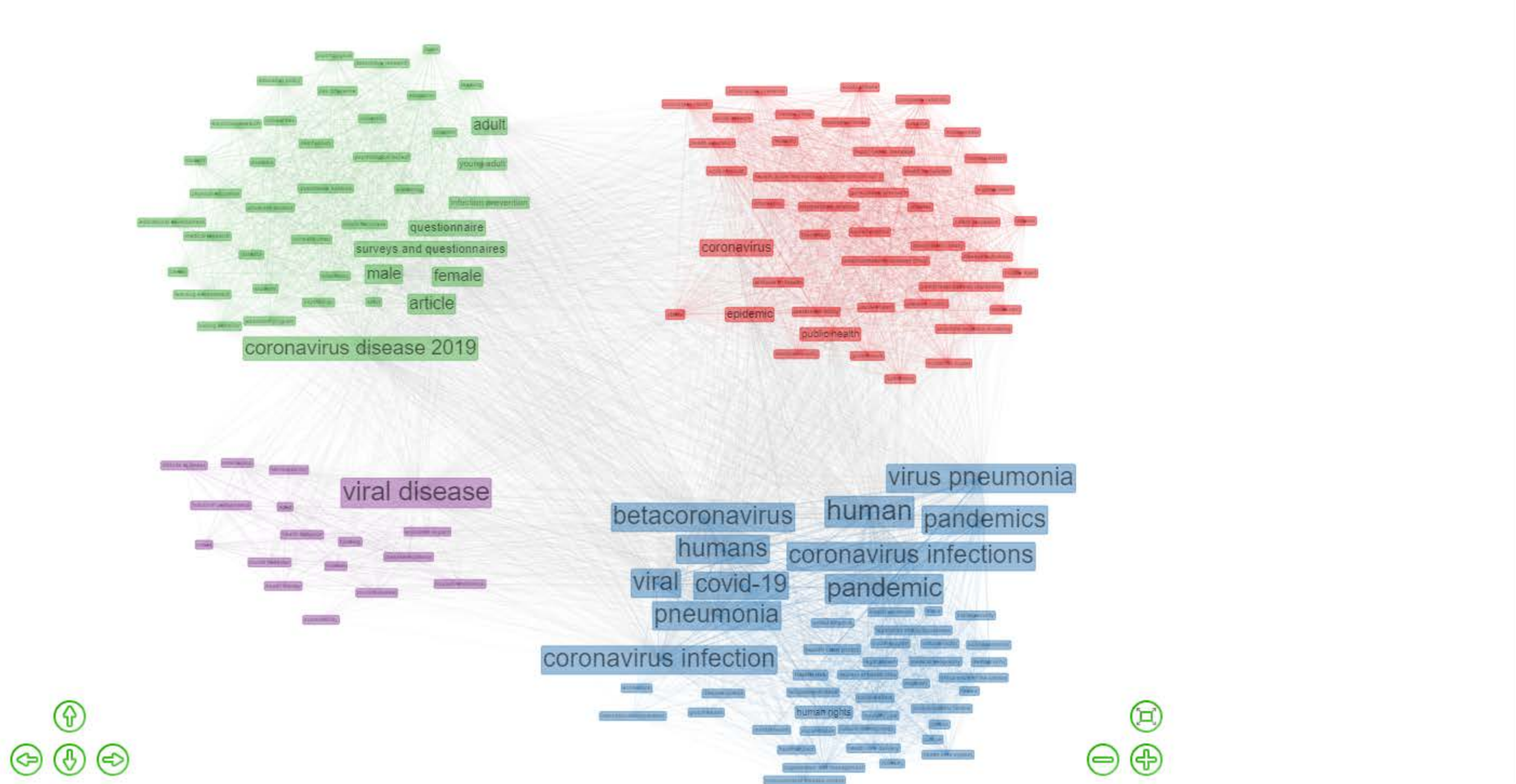
Field:

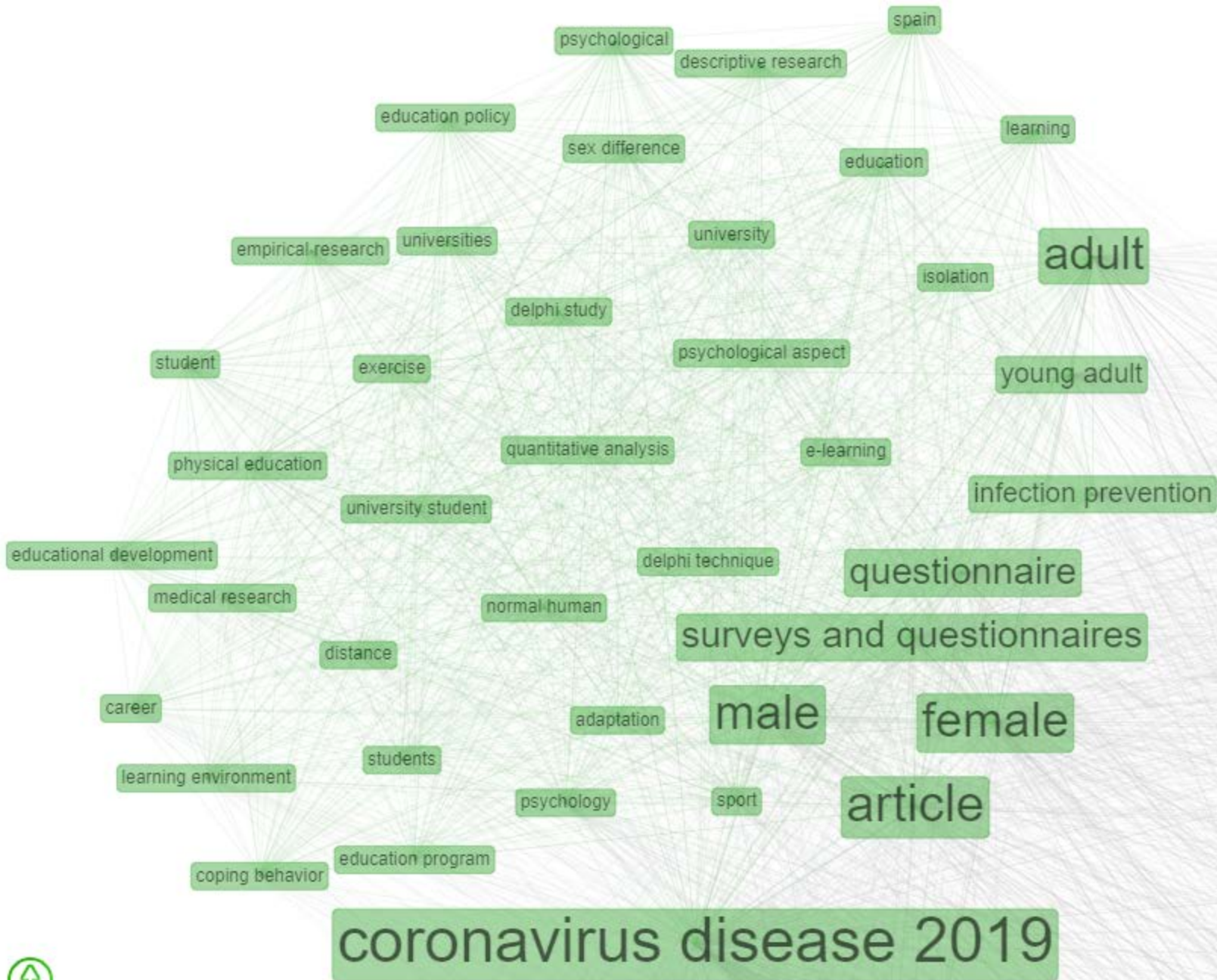
Number of Words:  (50 to 500)

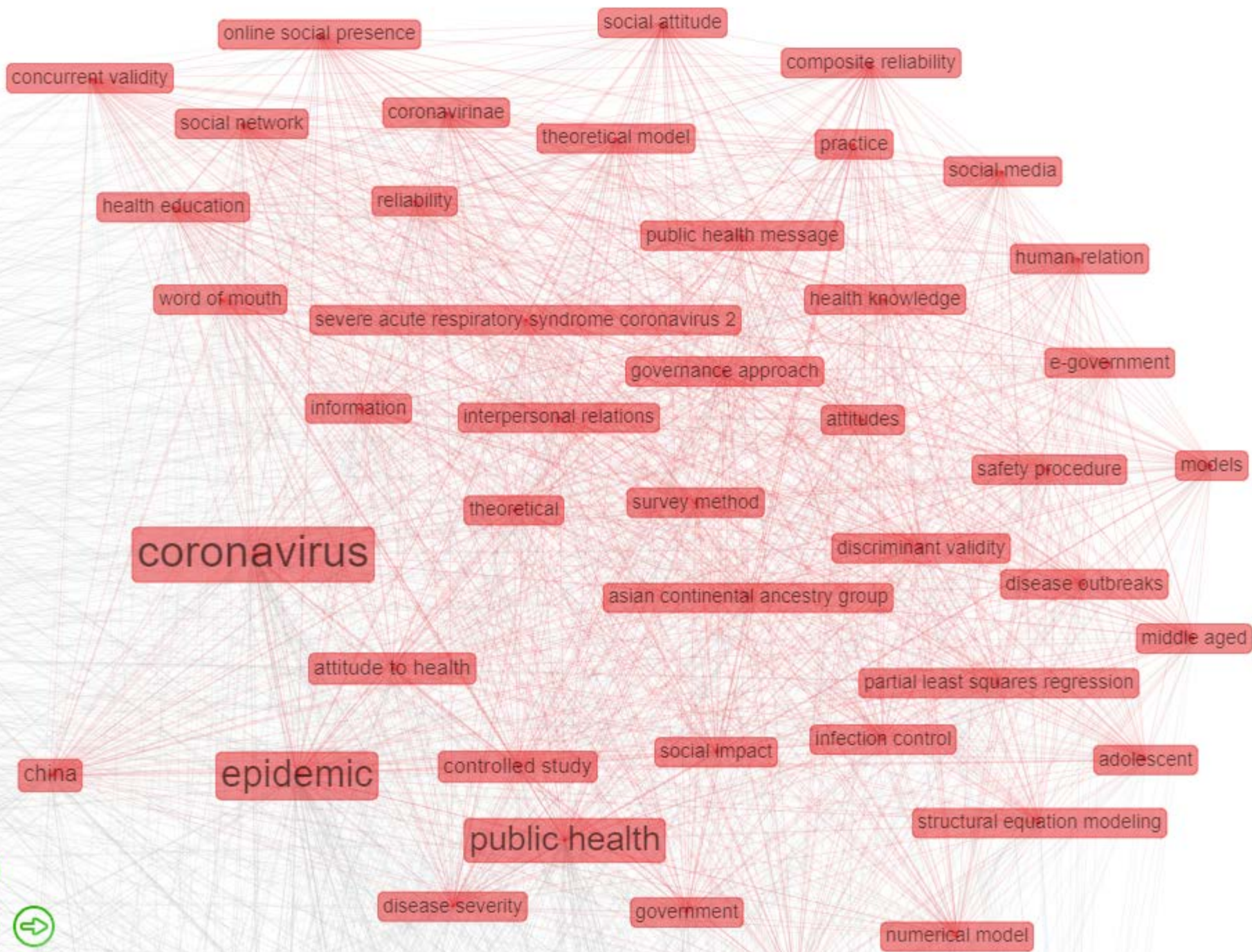
Min Cluster Frequency (per thousand docs):  (1 to 100)

Number of Labels (for each cluster):  (1 to 5)

Label size:  (0 to 1)







# viral disease

sustainability

aged

service sector

industrial performance

travel

attitude to illness

tourism

health survey

health behavior

tourist behavior

satisfaction

tourism economics

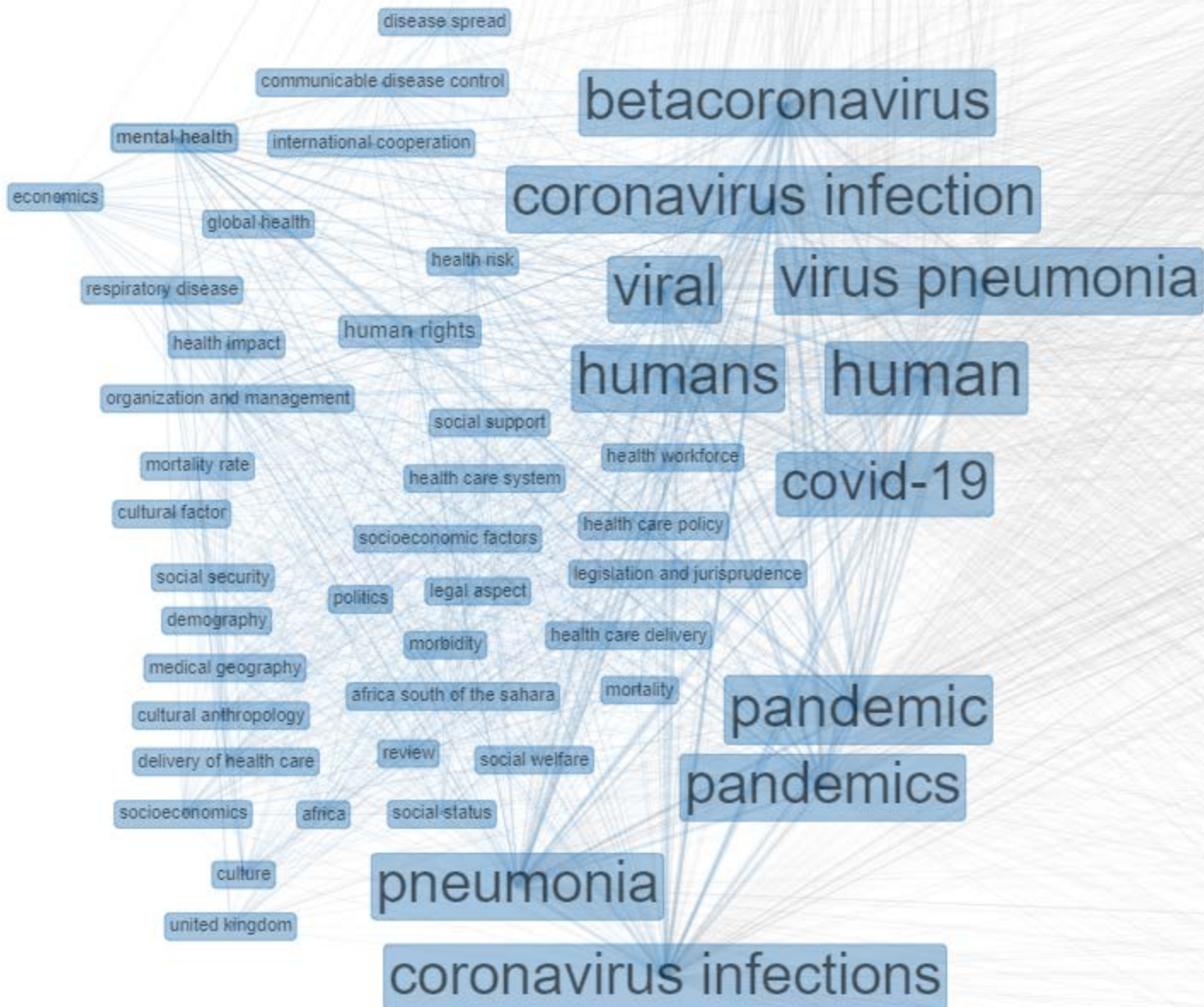
housing

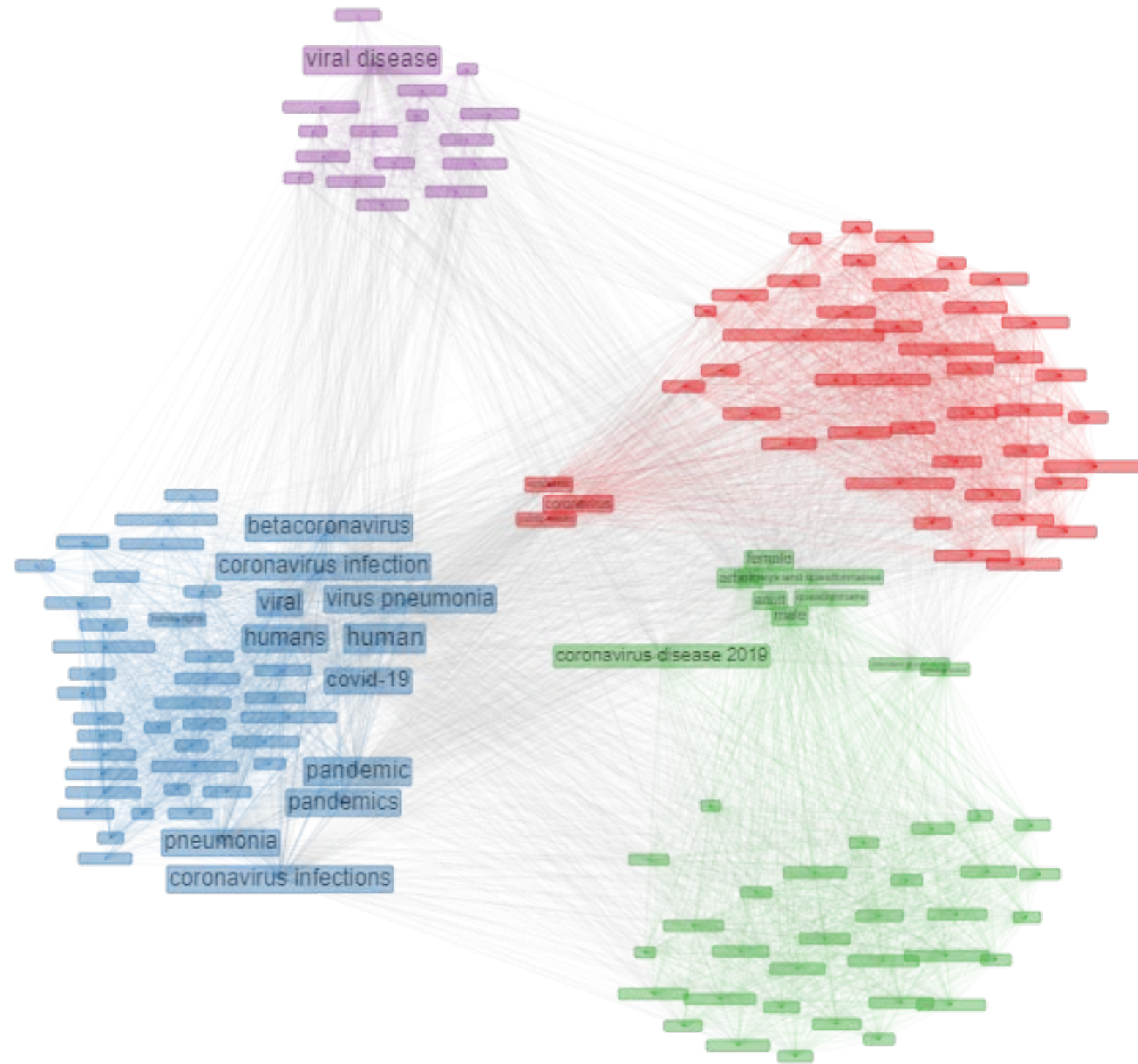
economic impact

disease incidence

tourism market







# Thematic Map

**Apply!**

**TM Parameters:**

Field:

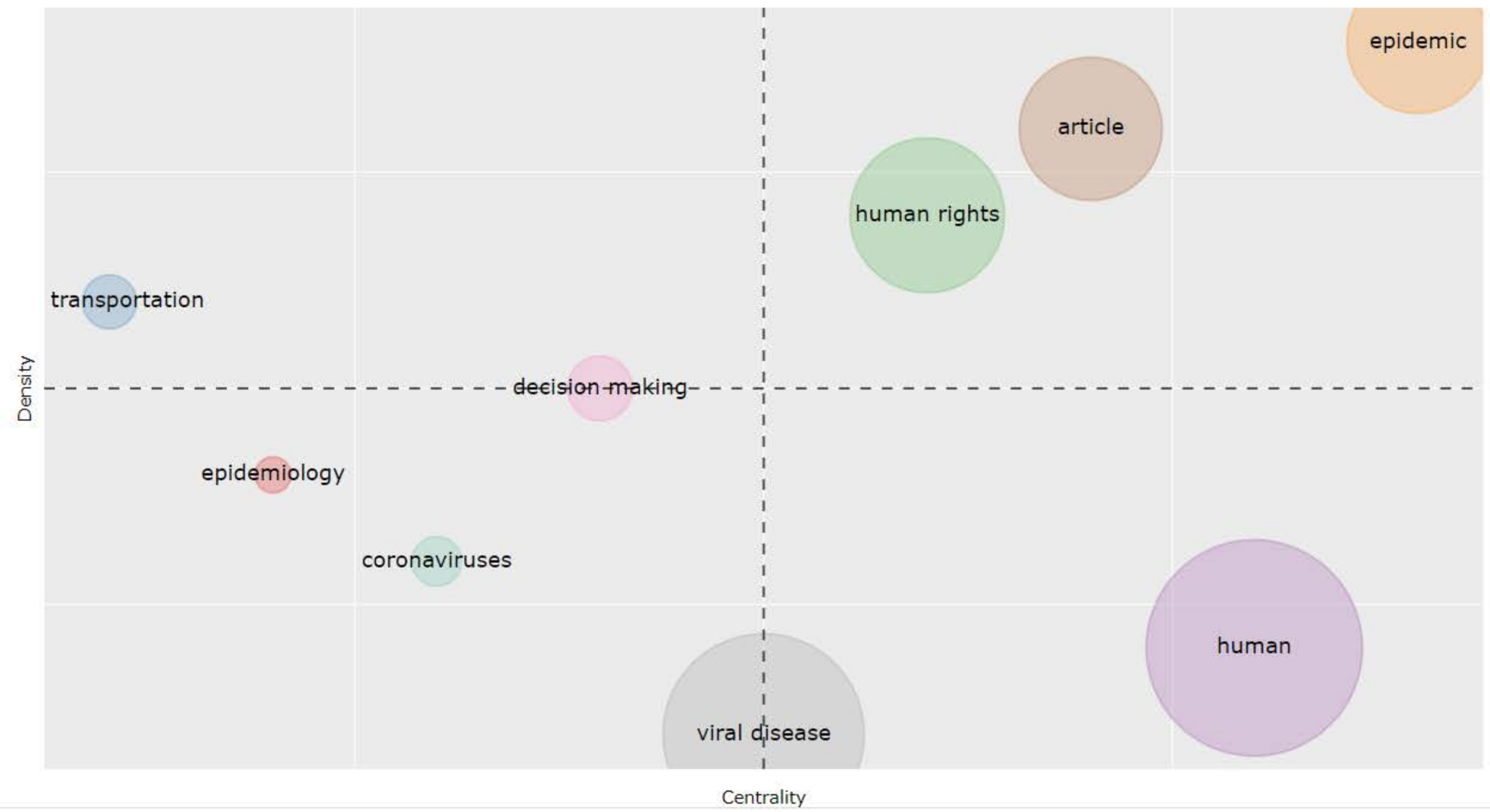
Number of Words:

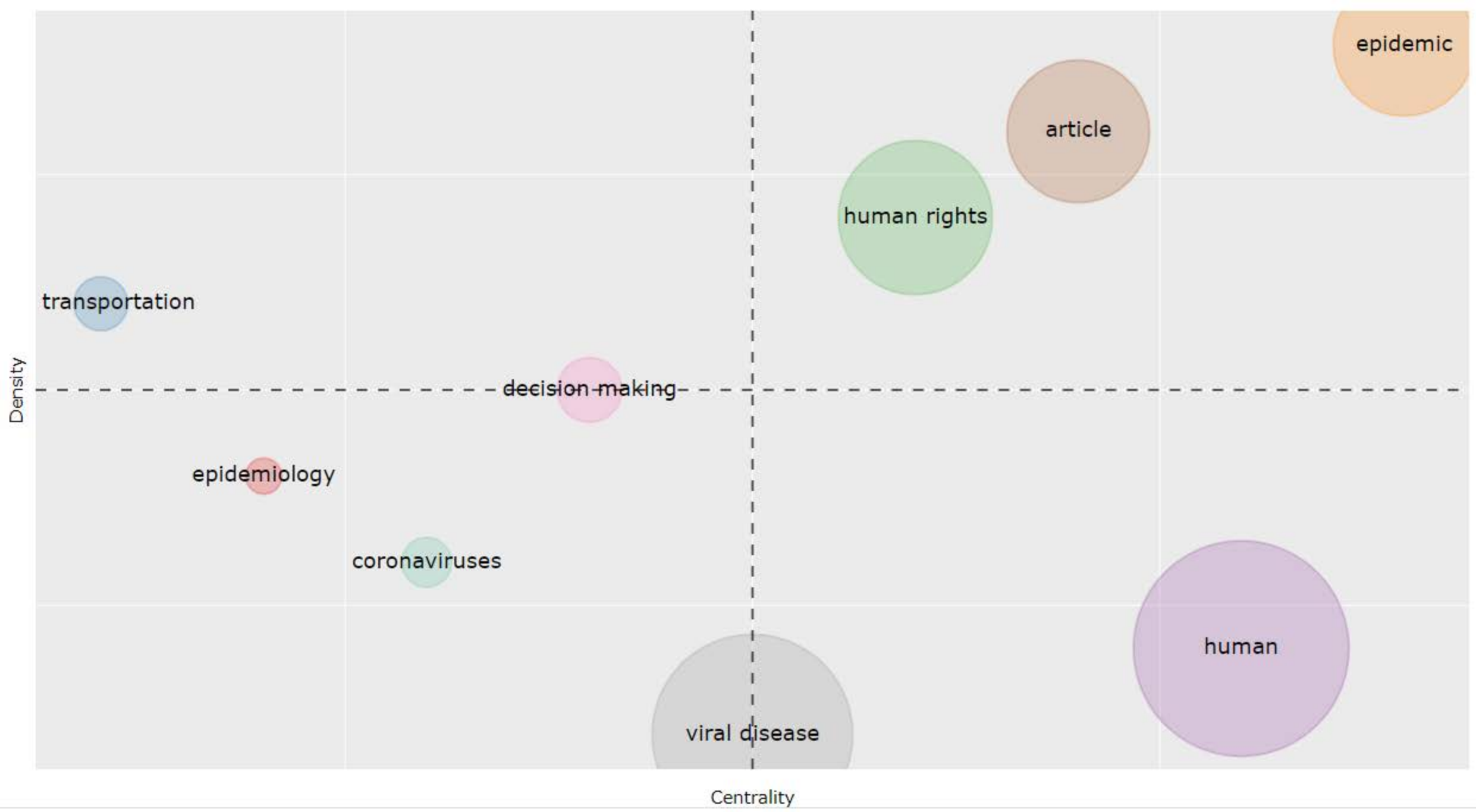
Min Cluster Frequency (per thousand docs):

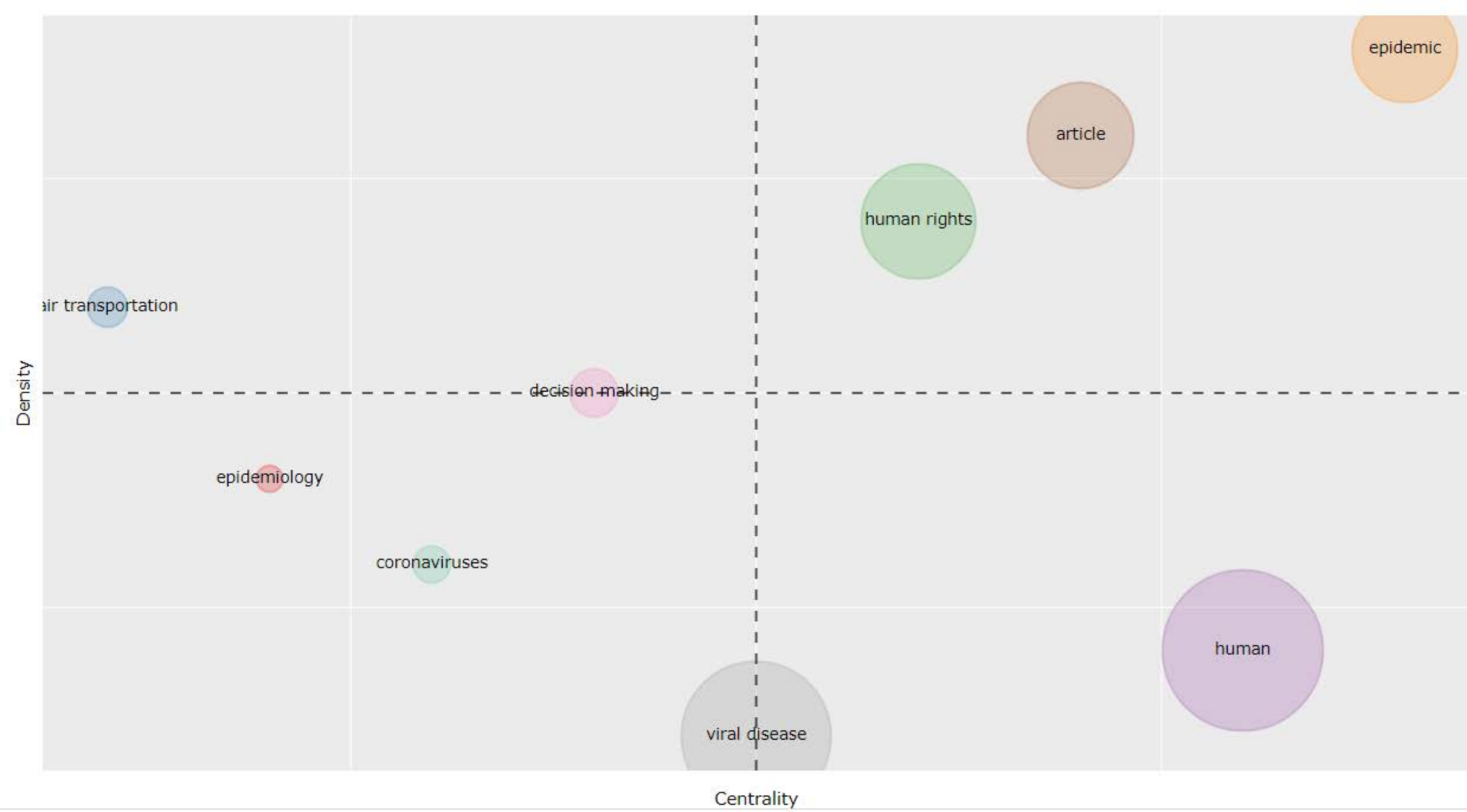
Number of Labels (for each cluster):

Label size:

Map **Network** Table







# Thematic Map

Apply!

## TM Parameters:

Field  
Author's Keywords

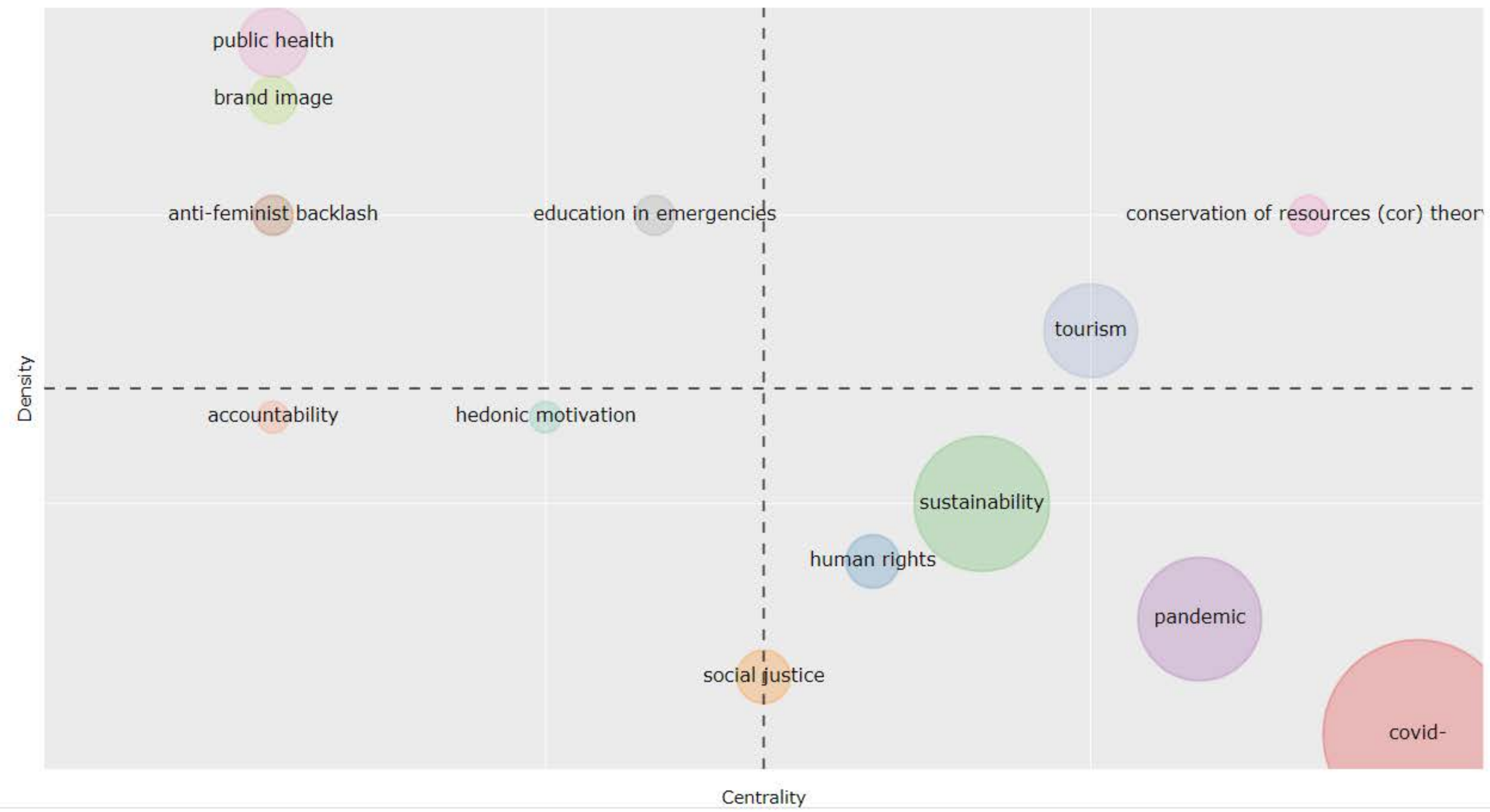
Number of Words  
50 150 500

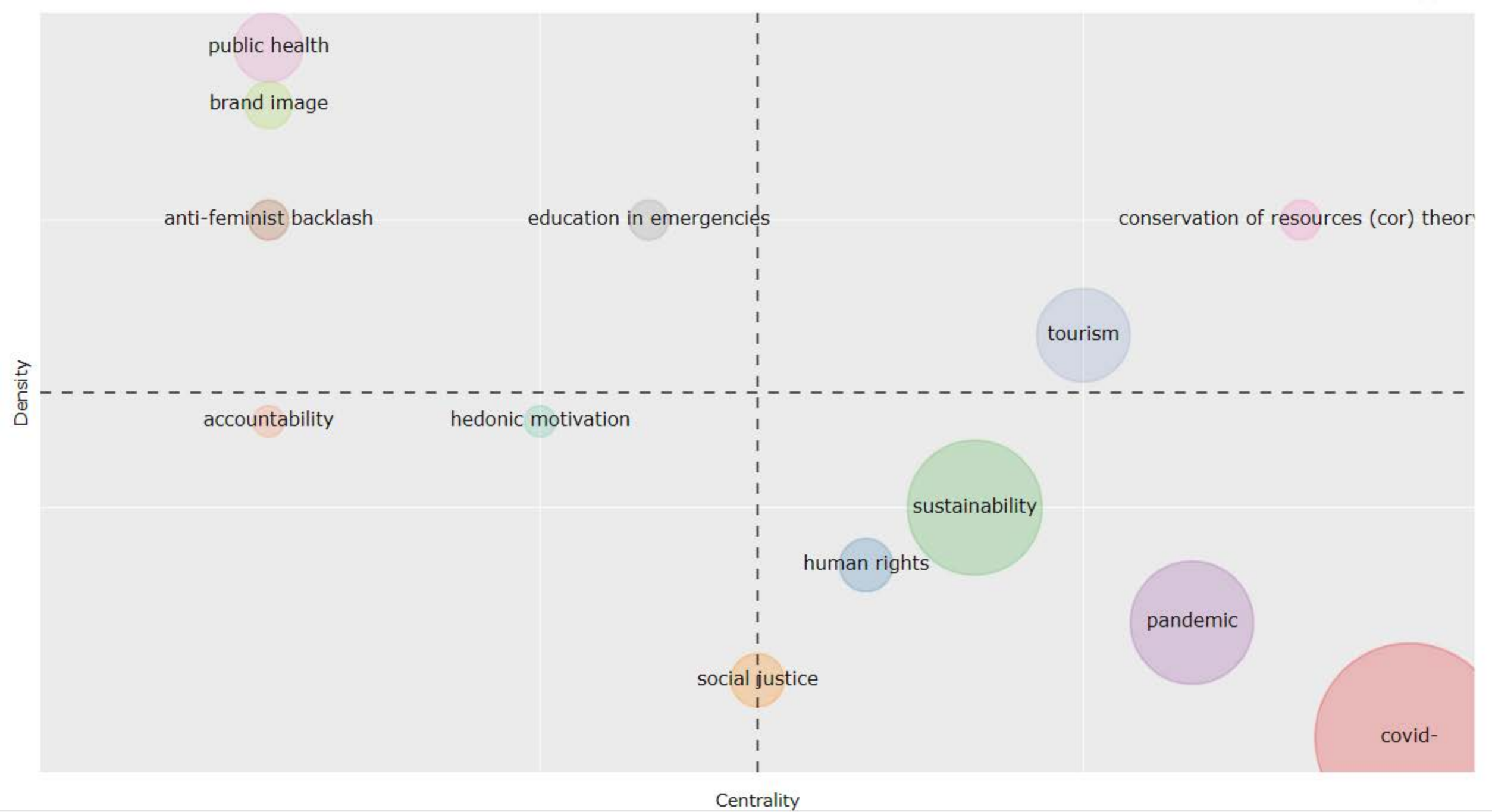
Min Cluster Frequency (per thousand docs)  
1 5 100

Number of Labels (for each cluster)  
1 5

Label size  
0 0.4 1

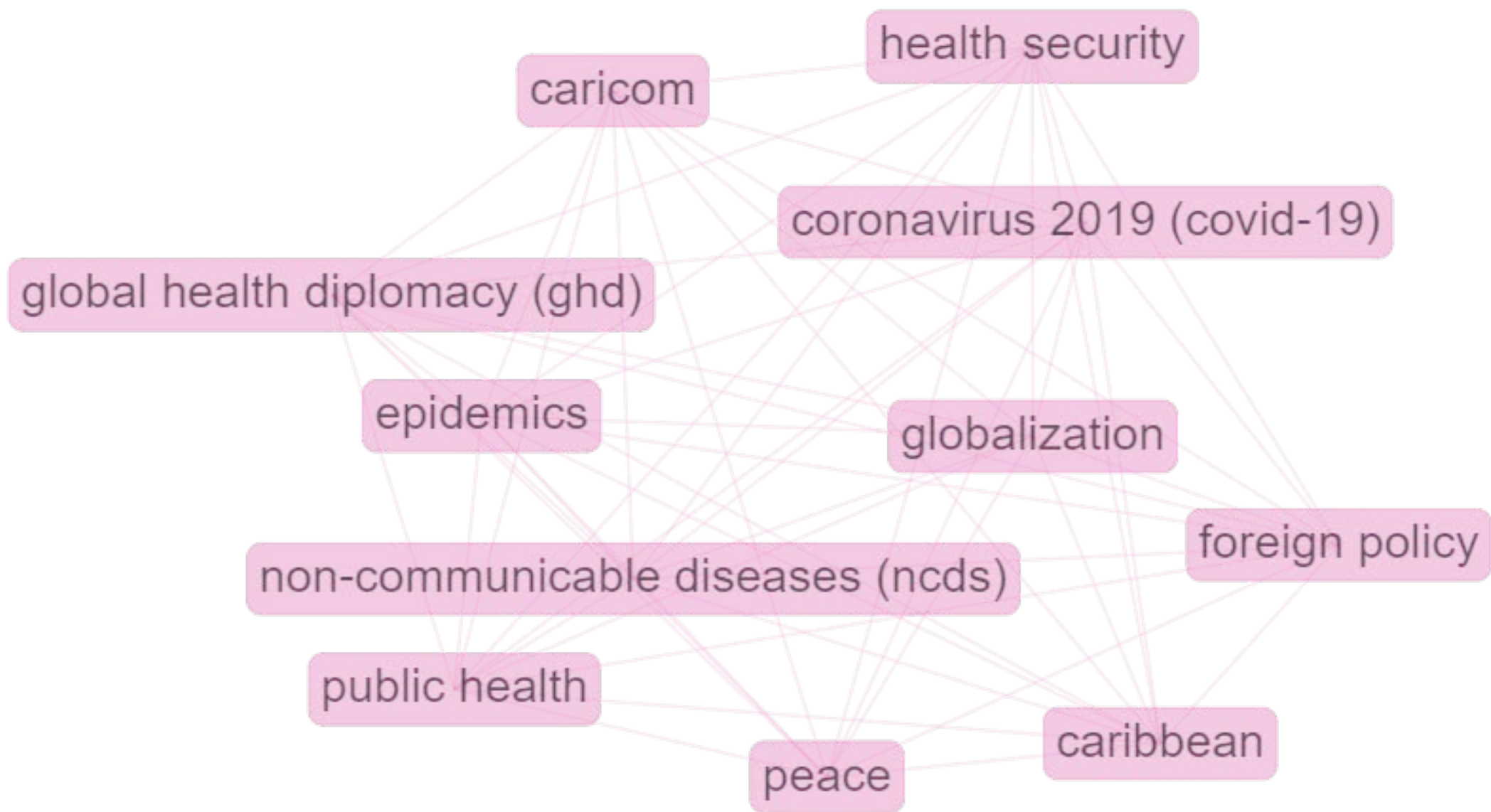
Map Network Table

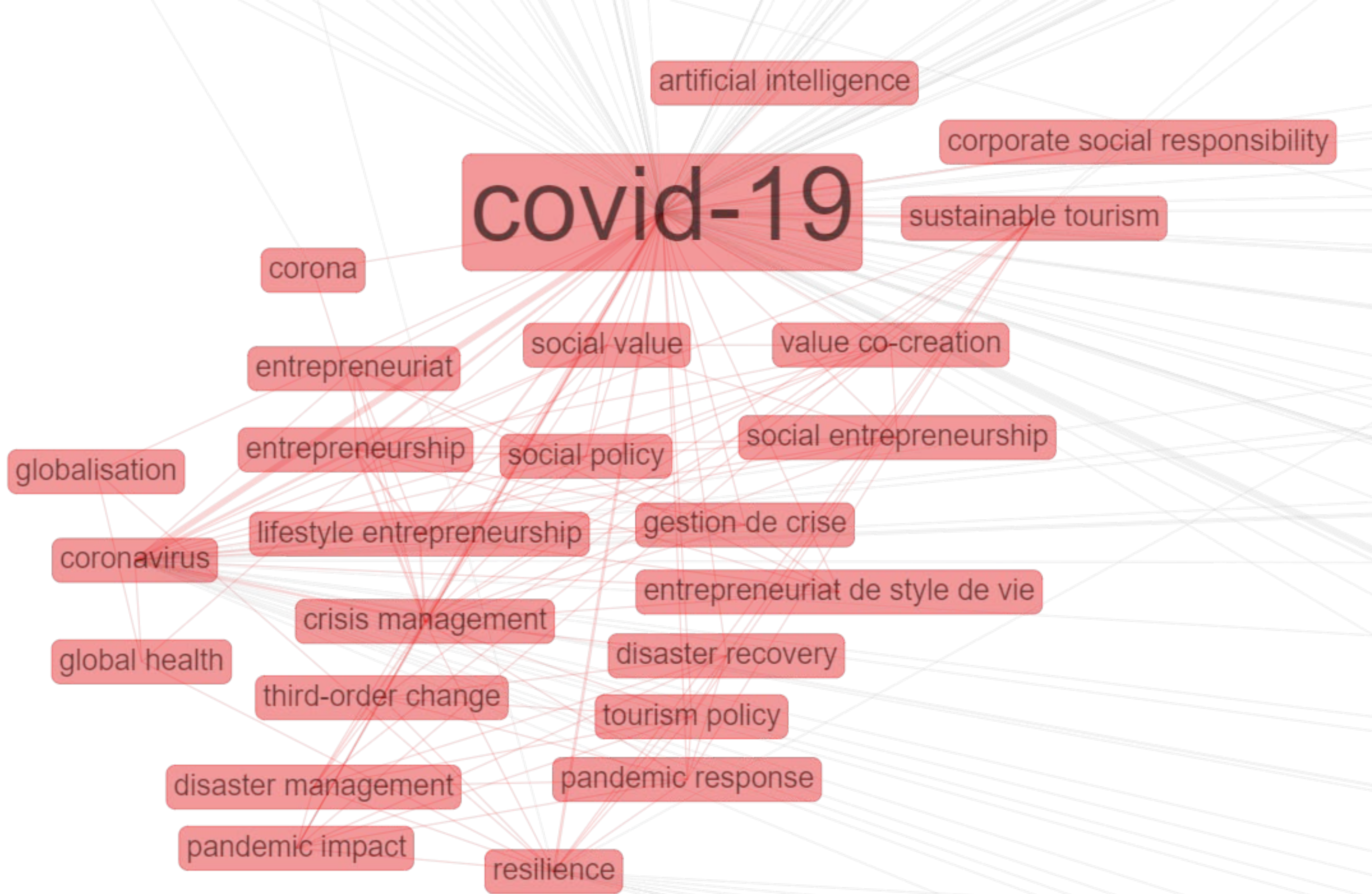
















corporate social responsibility (csr)

hope

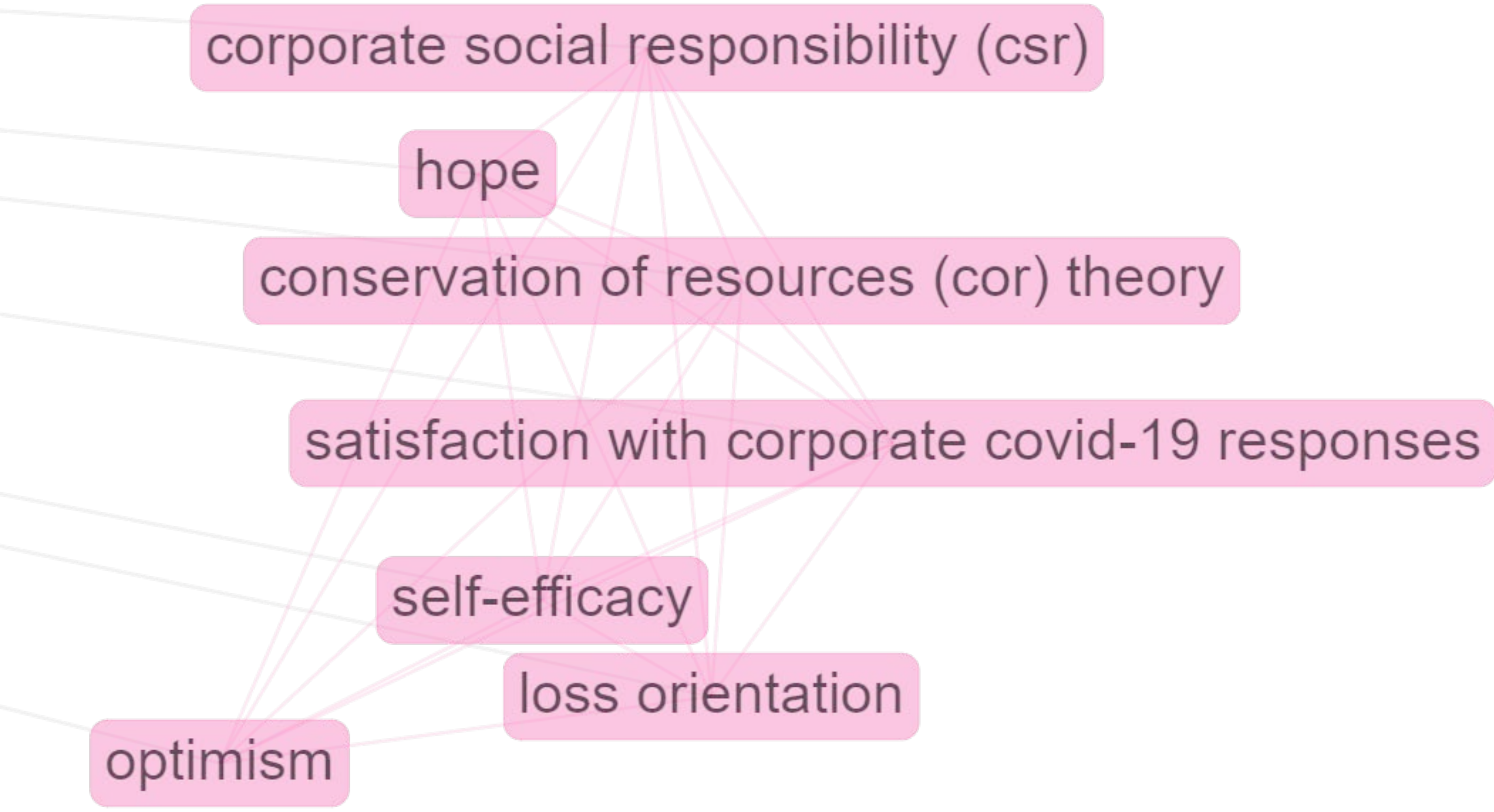
conservation of resources (cor) theory

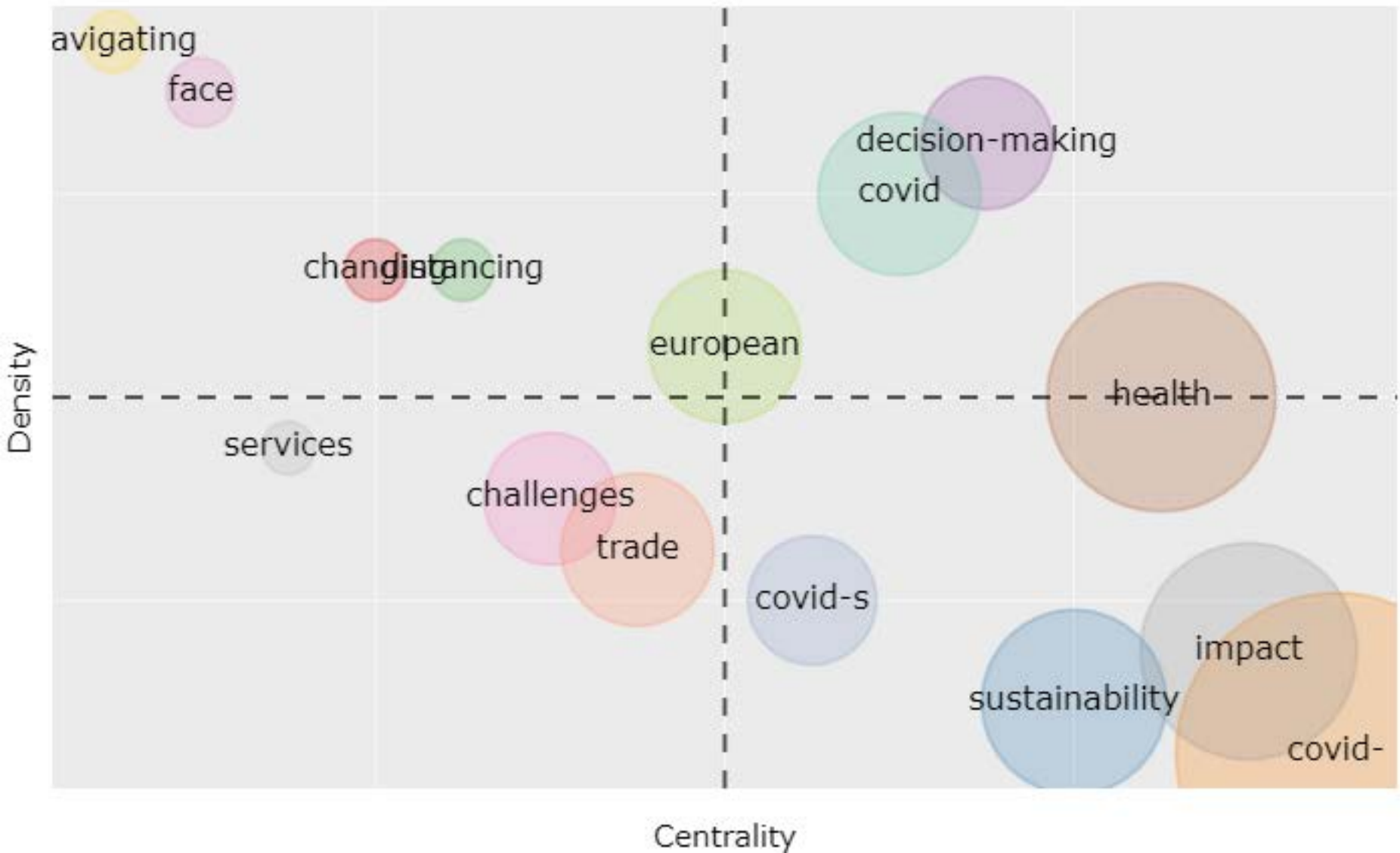
satisfaction with corporate covid-19 responses

self-efficacy

loss orientation

optimism





# Thematic Map

**Apply!**

**TM Parameters:**

Field: Titles

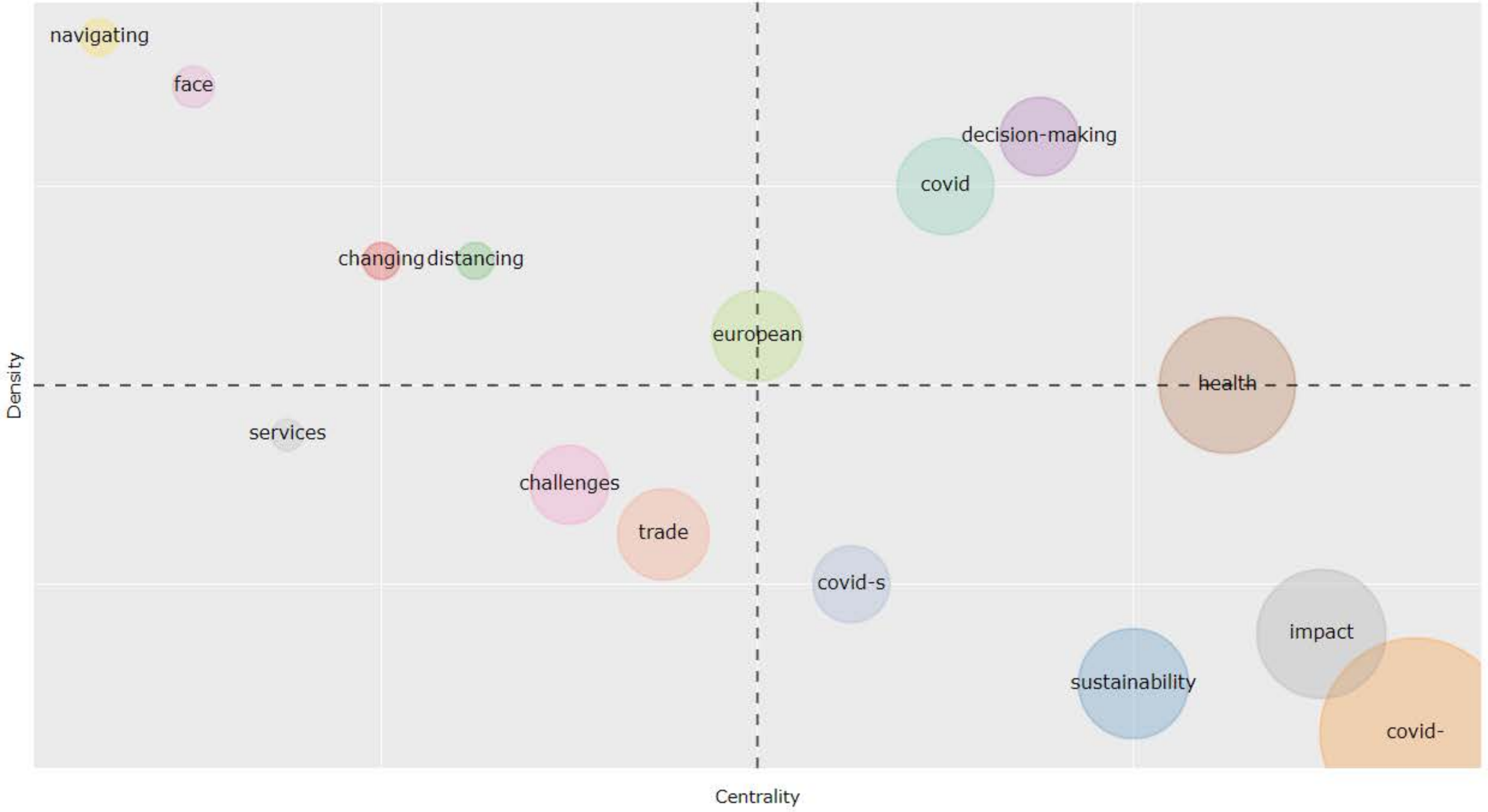
Word Stemming: No

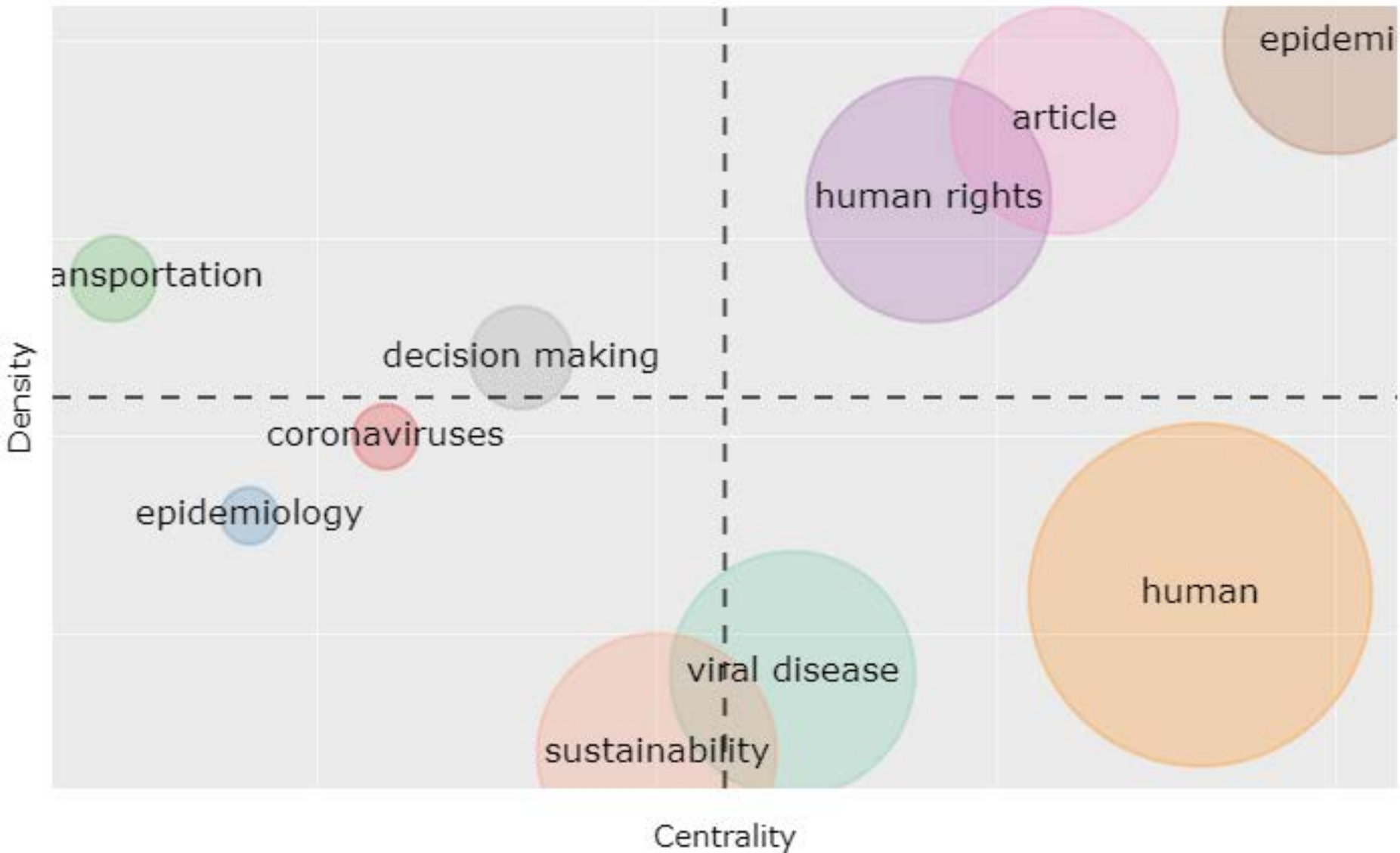
Number of Words: 350

Min Cluster Frequency (per thousand docs): 5

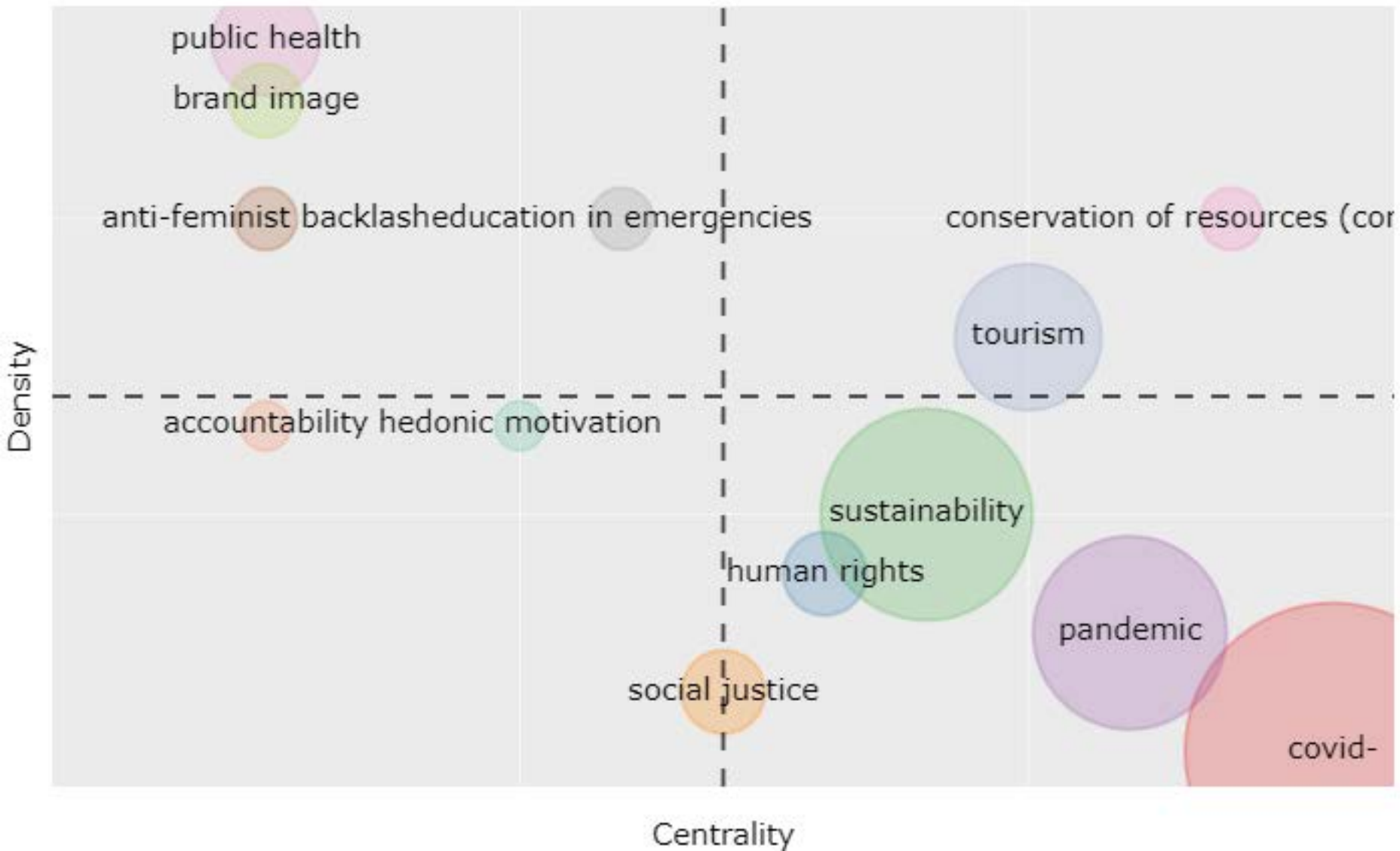
Number of Labels (for each cluster): 1

Label size: 0.4



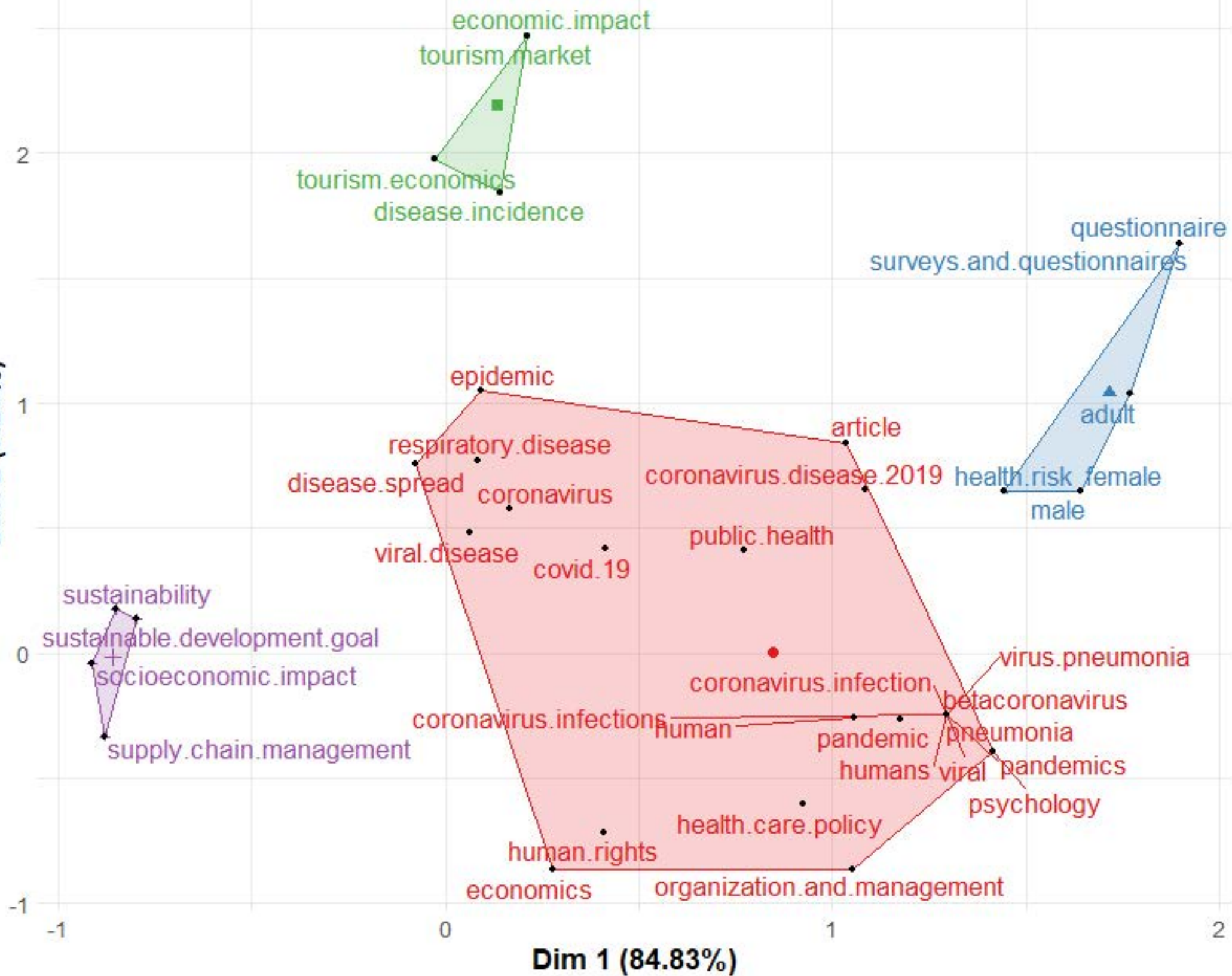






# Conceptual Structure Map - method: MCA

Dim 2 (9.29%)



Dejan DRAGAN | Professor (Asso) x | 127.0.0.1 x biblioshiny for bibliometrix x +

127.0.0.1:5576

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### Factorial Analysis

Apply!

**FA Parameters:**

Method: Multiple Correspondence Analysis

Field: Keywords Plus

Number of terms: 50

N. of Clusters: 4

**Graphical Parameters:**

Label size: 18

Num. of documents: [slider]

#### Factorial Analysis

Word Map Topic Dendrogram Most Contributing Papers Most Cited Papers Words by Cluster Articles by Cluster

### Conceptual Structure Map - method: MCA

Dim 2 (9.29%)

2

1

0

economic impact  
tourism market  
tourism economics  
disease incidence

questionnaire  
surveys and questionnaires  
adult  
health risk  
female  
male

epidemic  
respiratory disease  
disease spread  
coronavirus  
viral disease  
covid.19  
public health  
coronavirus disease 2019  
coronavirus infection  
betacoronavirus  
pneumonia  
pandemic  
humans  
viral pandemics  
psychology  
health care policy  
organization and management  
human rights  
economics  
human  
coronavirus infections  
human  
pandemic  
humans  
viral pandemics  
psychology  
virus pneumonia  
betacoronavirus  
pneumonia  
pandemic  
humans  
viral pandemics  
psychology

sustainability  
sustainable development goal  
socioeconomic impact  
supply chain management

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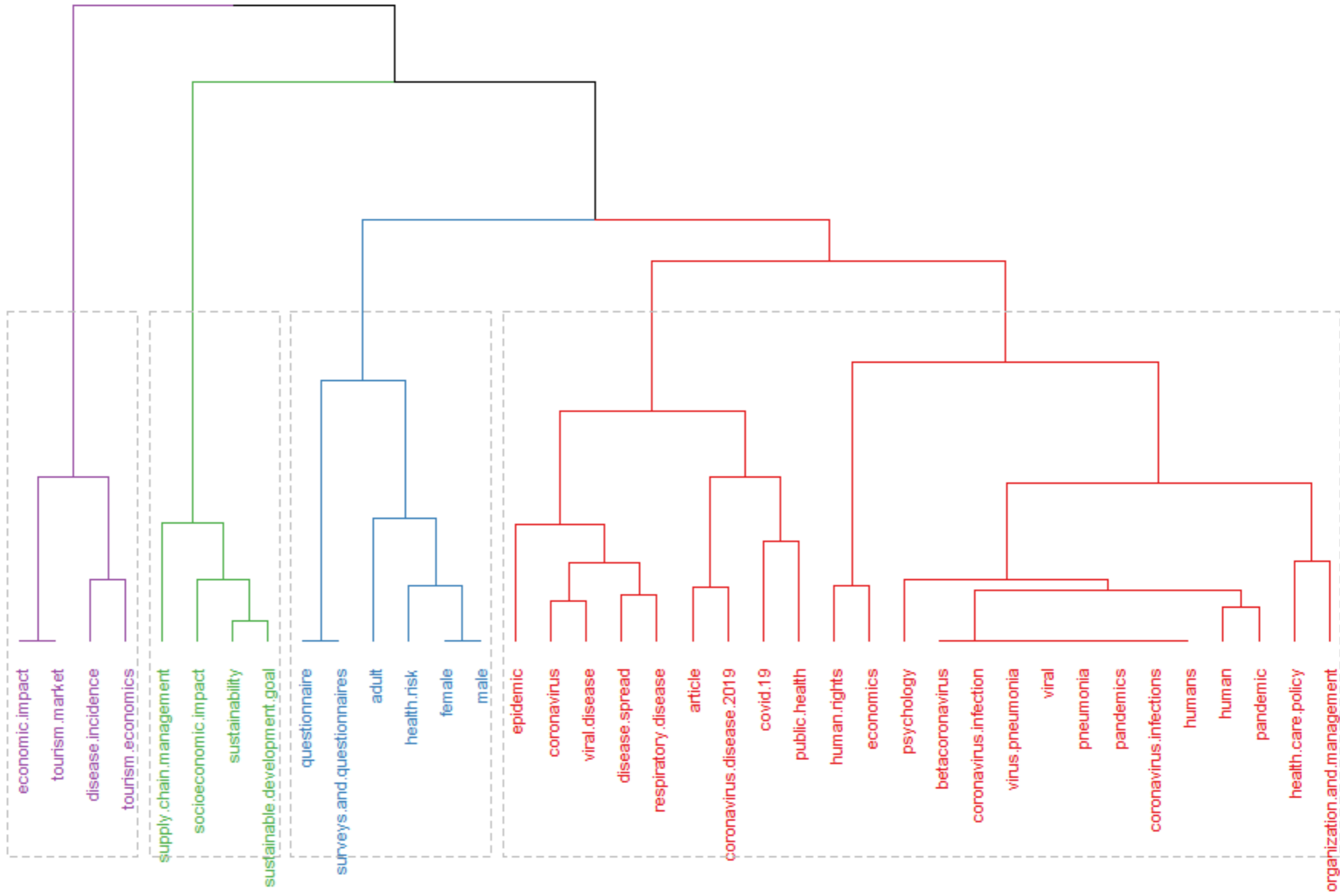
# Topic Dendrogram

Height

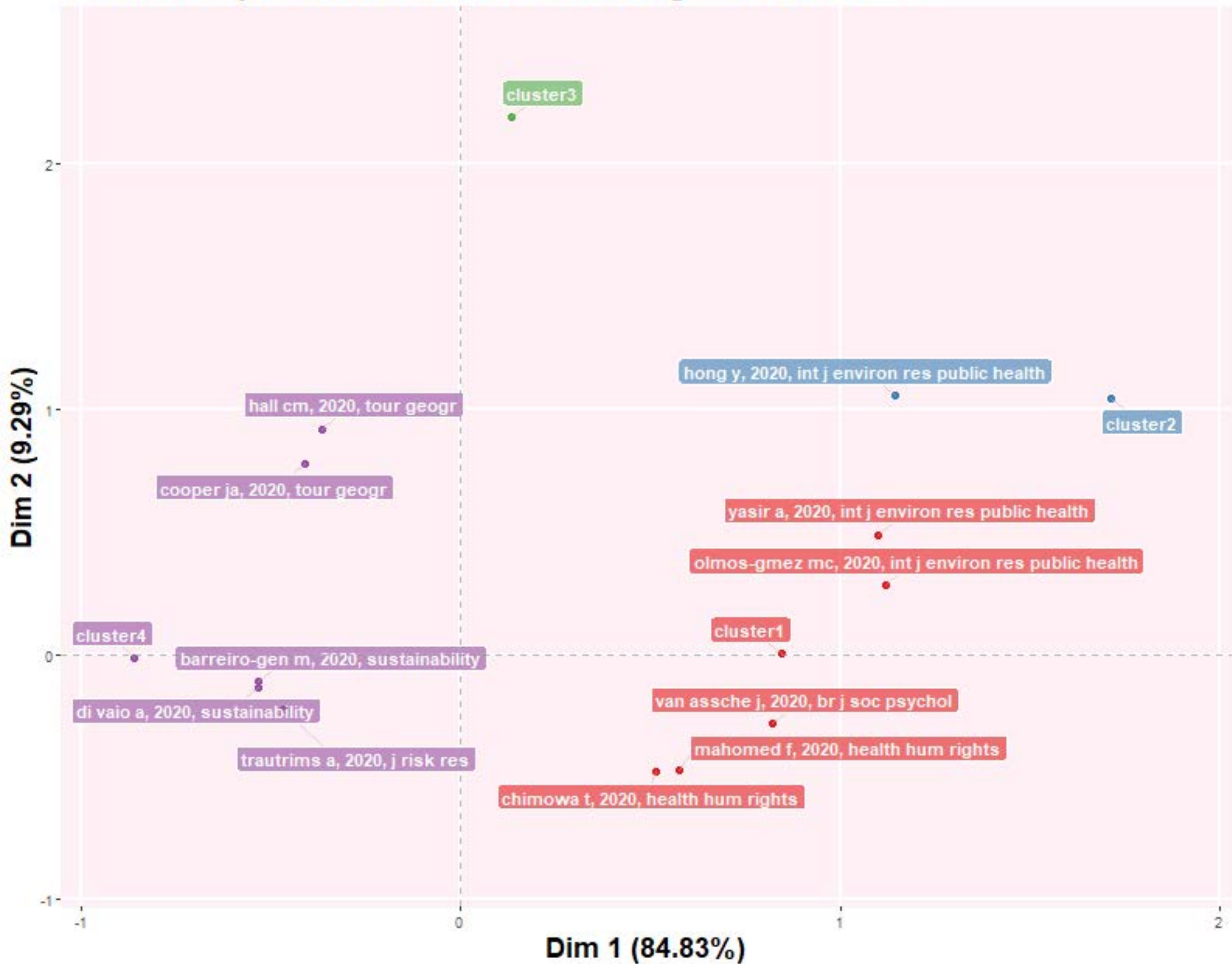
2-

1-

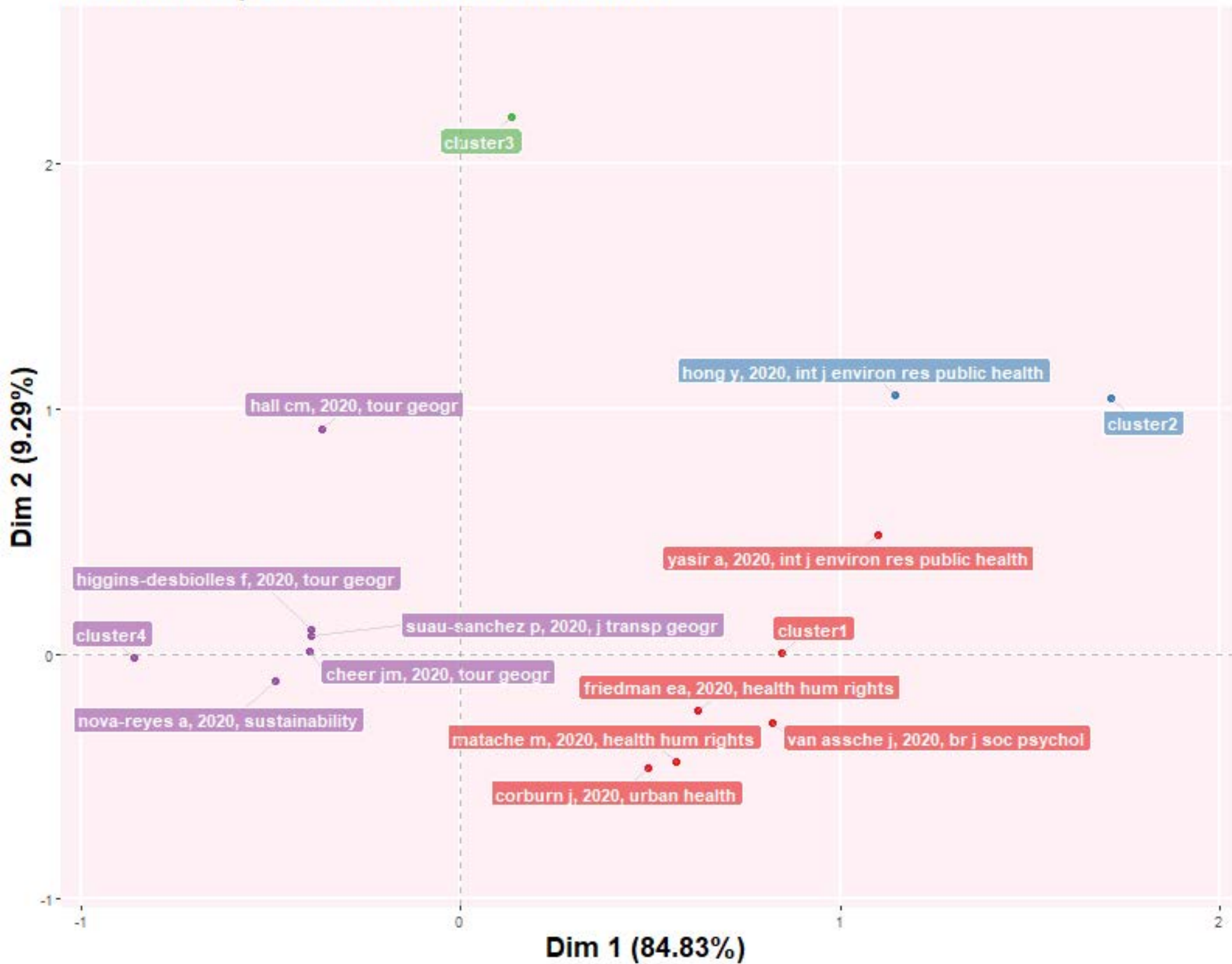
0



Factorial map of the documents with the highest contributes



# Factorial map of the most cited documents



Dejan DRAGAN | Professor (Asso) x | 127.0.0.1 x biblioshiny for bibliometrix x +

127.0.0.1:5576

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### Factorial Analysis

Apply!

**FA Parameters:**

Method: Multiple Correspondence Analysis

Field: Keywords Plus

Number of terms: 50

N. of Clusters: 4

**Graphical Parameters:**

Label size: 18

Num. of documents: [slider]

#### Factorial Analysis

Word Map Topic Dendrogram **Most Contributing Papers** Most Cited Papers Words by Cluster Articles by Cluster

#### Factorial map of the documents with the highest contributes

The factorial map displays the positions of documents in a 2D space defined by Dim 1 and Dim 2 (9.29%). Documents are grouped into four clusters:

- Cluster 1 (Red):** Includes papers by yasir a, olmos-gmez mc, van assche j, mahomed f, and chimowa t.
- Cluster 2 (Blue):** Includes a paper by hong y.
- Cluster 3 (Green):** Includes a paper by cluster3.
- Cluster 4 (Purple):** Includes papers by hall cm, cooper ja, barreiro-gen m, di vaio a, and trautrims a.

Taskbar: CoWord\_Factorial\_...xlsx, download (13) FA..., newplot AUTHOR..., newplot THEMATI...

## Factorial Analysis

Apply!

**FA Parameters:**

Method: Multiple Correspondence Analysis

Field: Keywords Plus

Number of terms: 50

N. of Clusters: 4

**Graphical Parameters:**

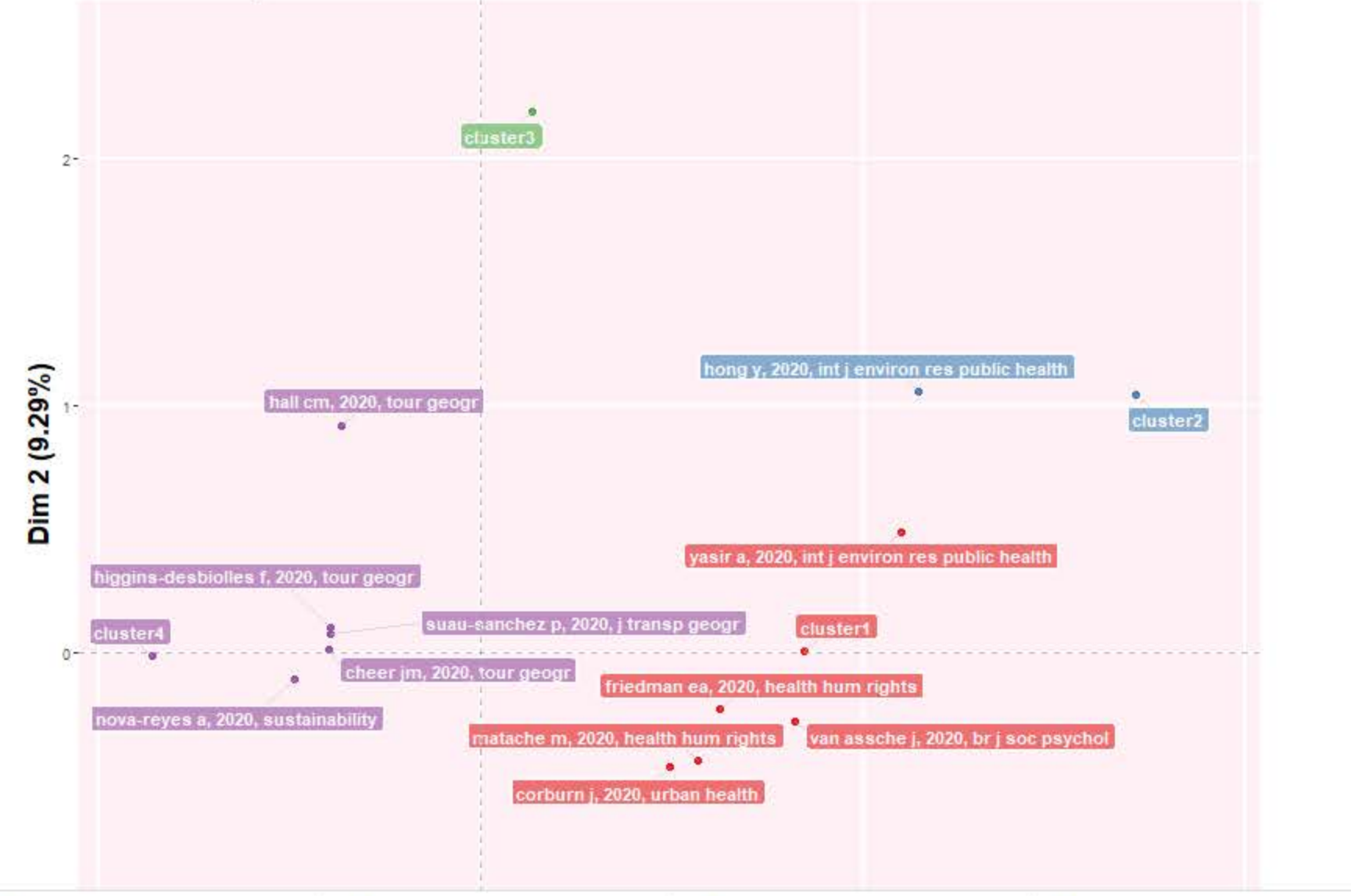
Label size: 18

Num. of documents: [slider]

### Factorial Analysis

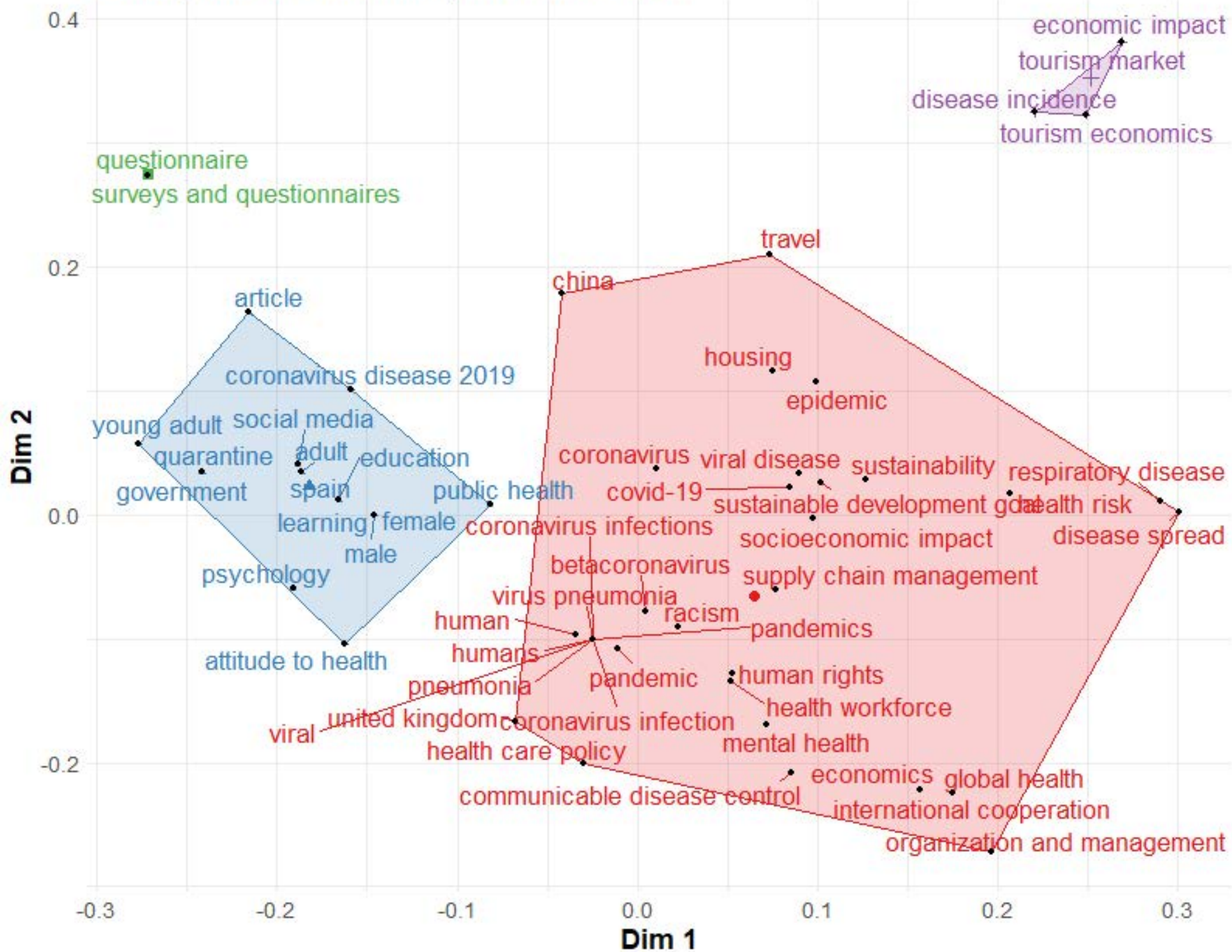
- Word Map
- Topic Dendrogram
- Most Contributing Papers
- Most Cited Papers
- Words by Cluster
- Articles by Cluster

### Factorial map of the most cited documents





# Conceptual Structure Map - method: MDS



# Topic Dendrogram

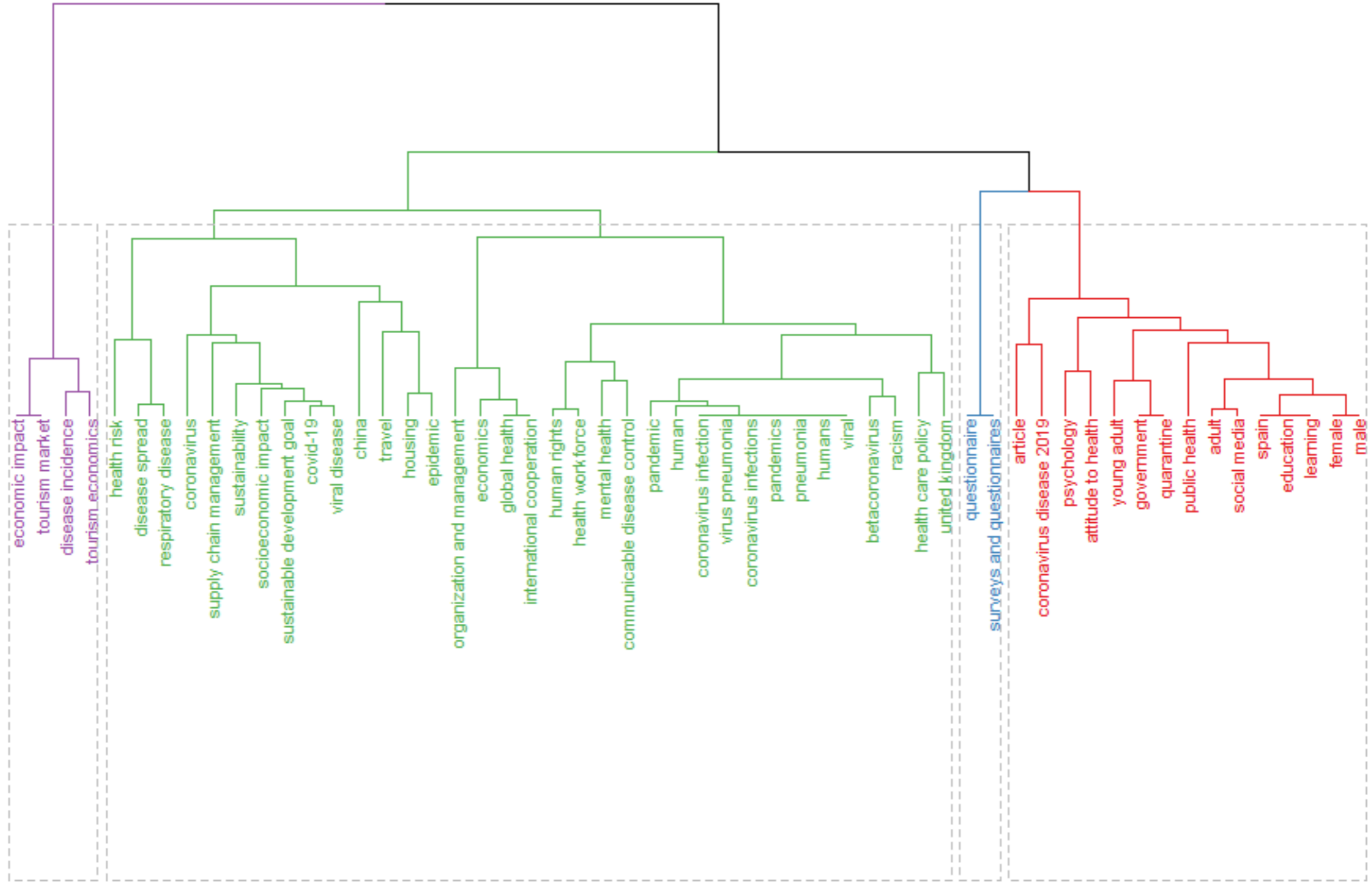
Height

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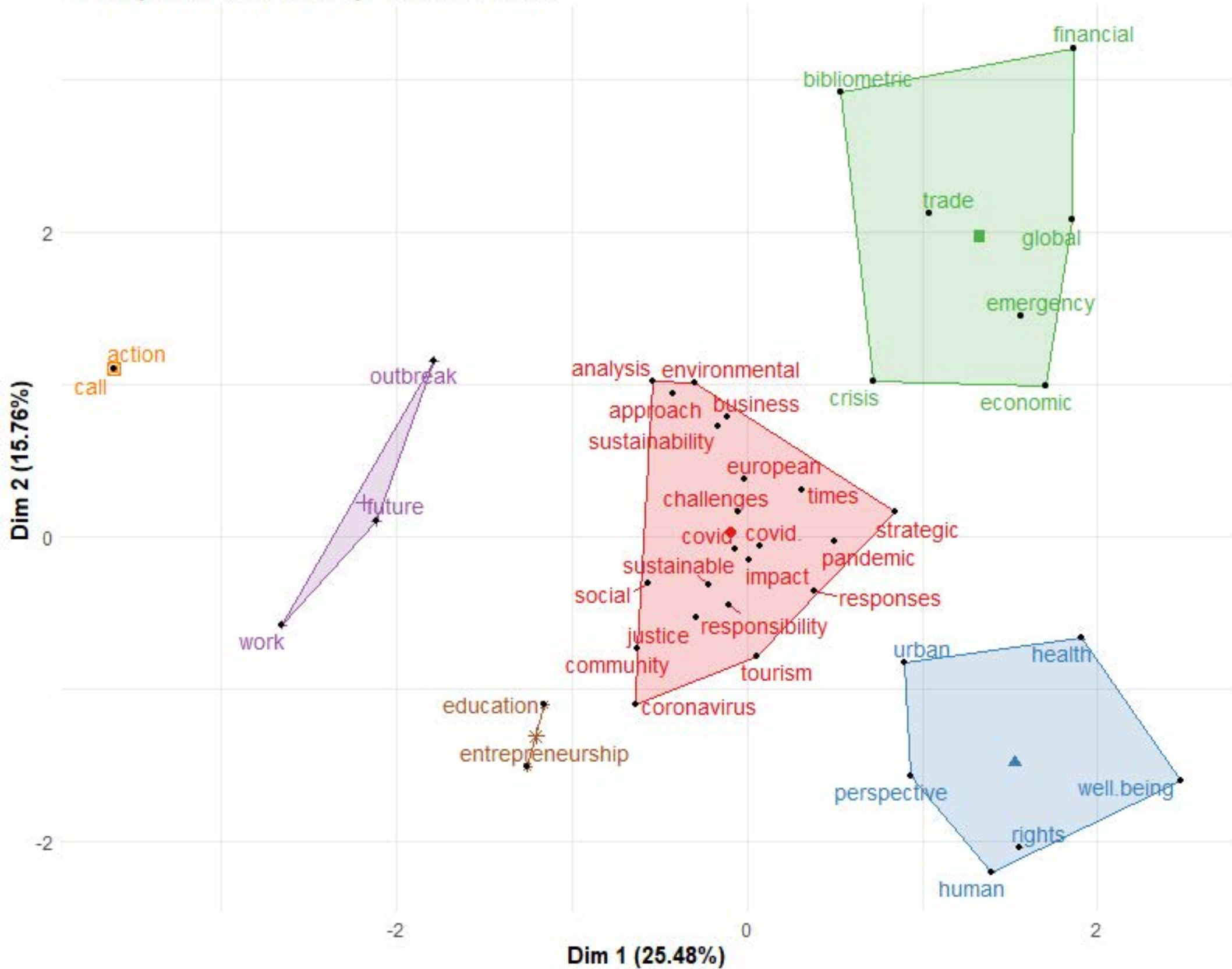
0.0

-0.3

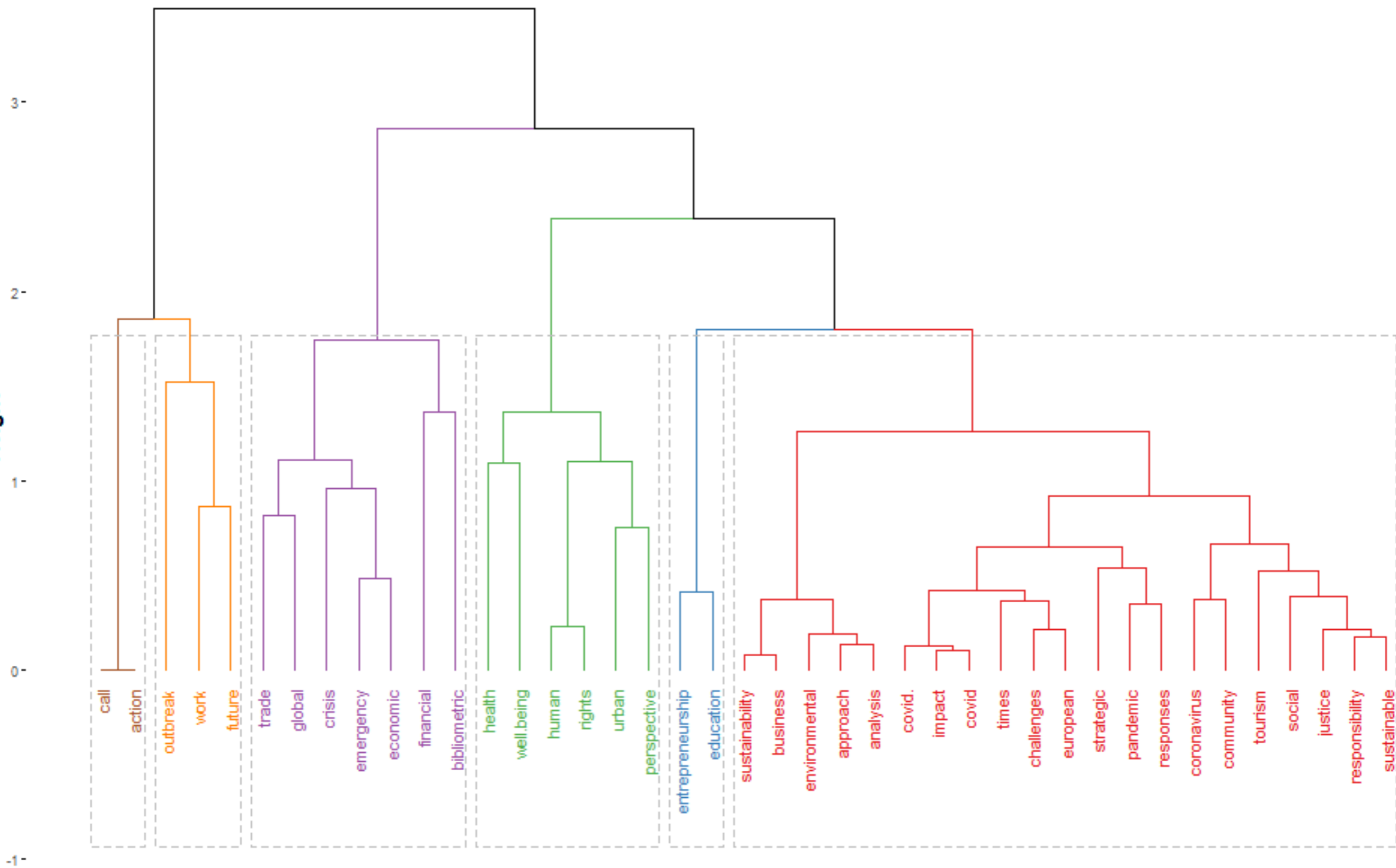
-0.6



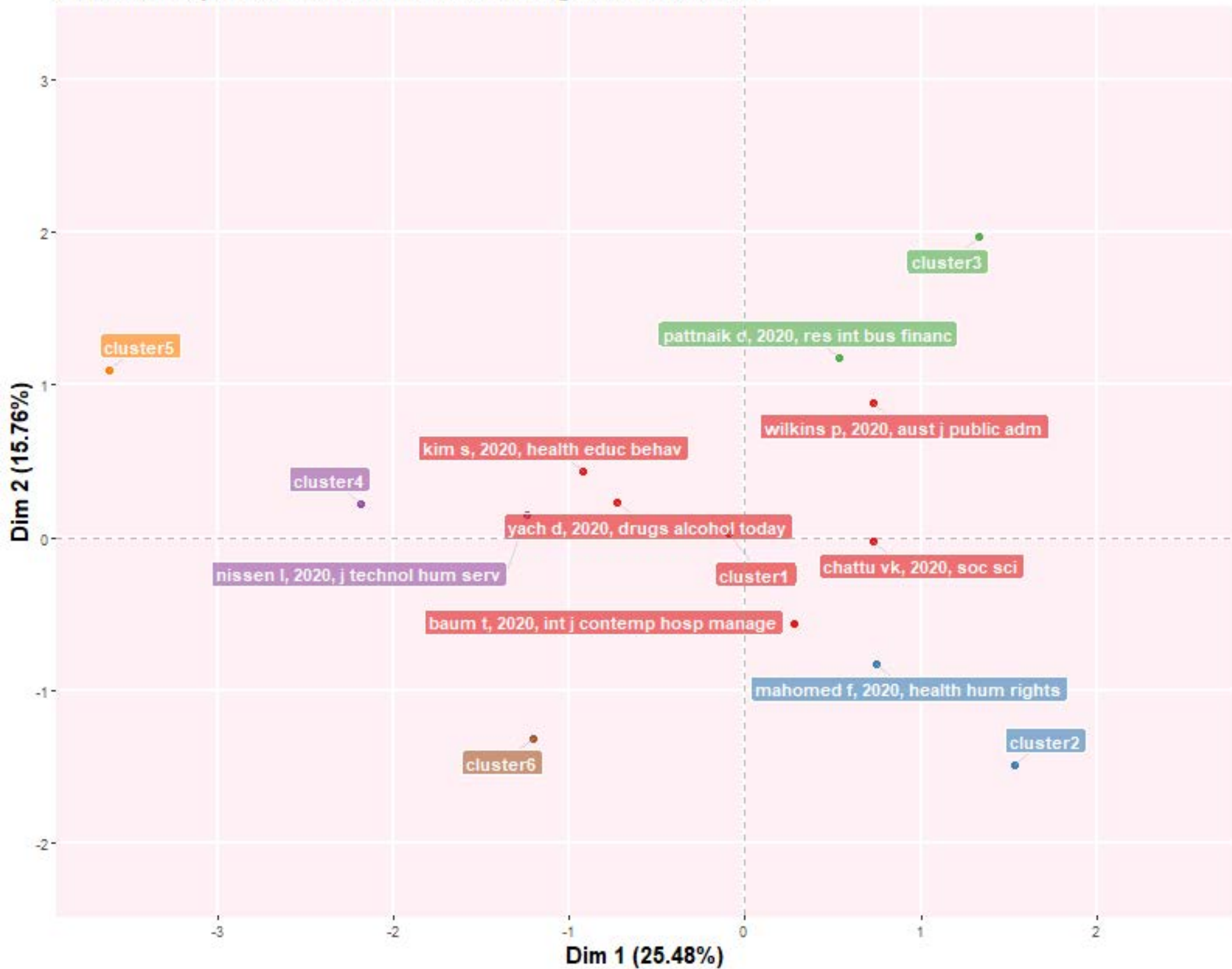
Conceptual Structure Map - method: MCA



# Topic Dendrogram



Factorial map of the documents with the highest contributes



# Factorial Analysis

Apply!

## FA Parameters:

Method

Multiple Correspondence Analysis

Field

Titles

Number of terms

45

N. of Clusters

6

## Graphical Parameters:

Label size

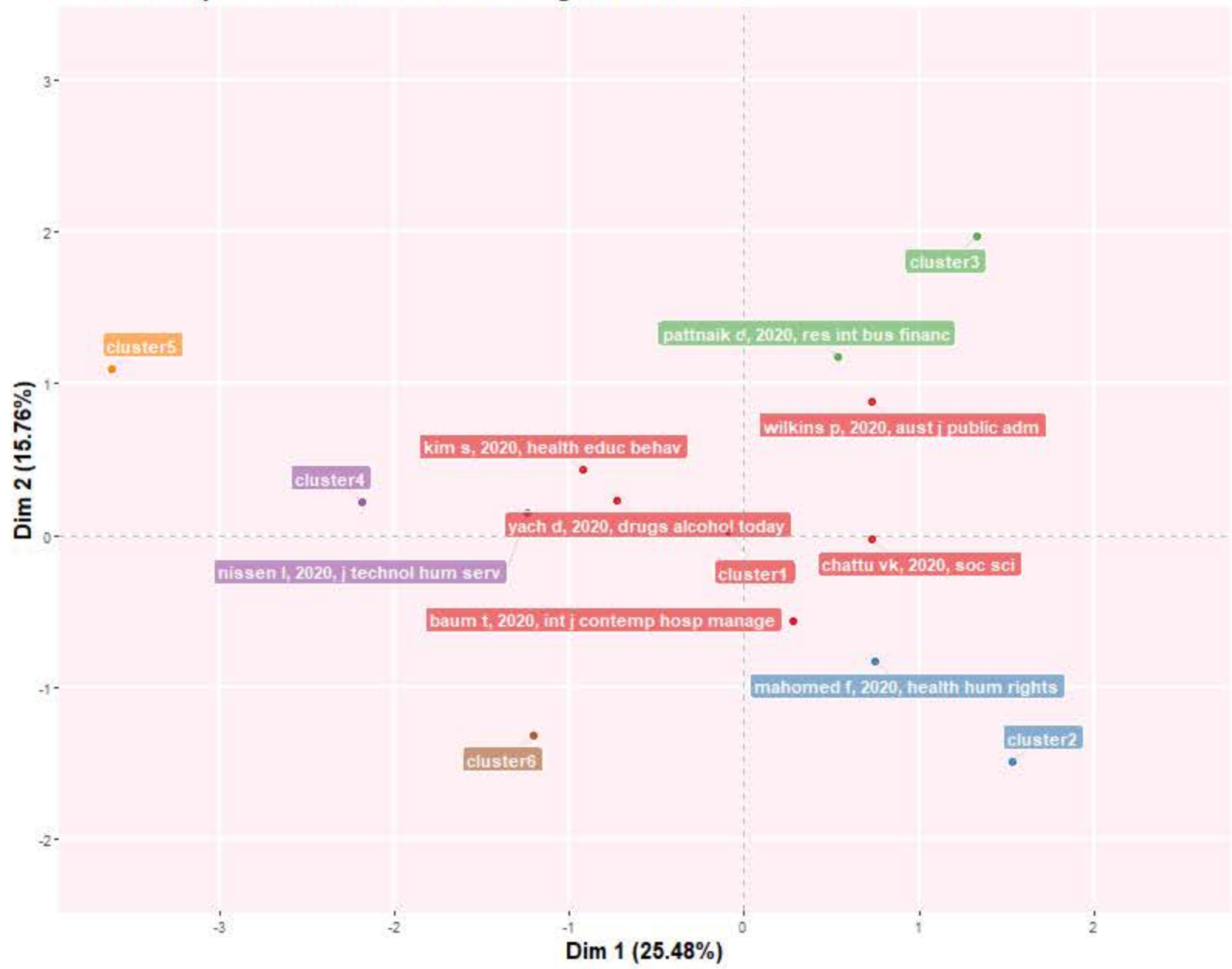


Num. of documents

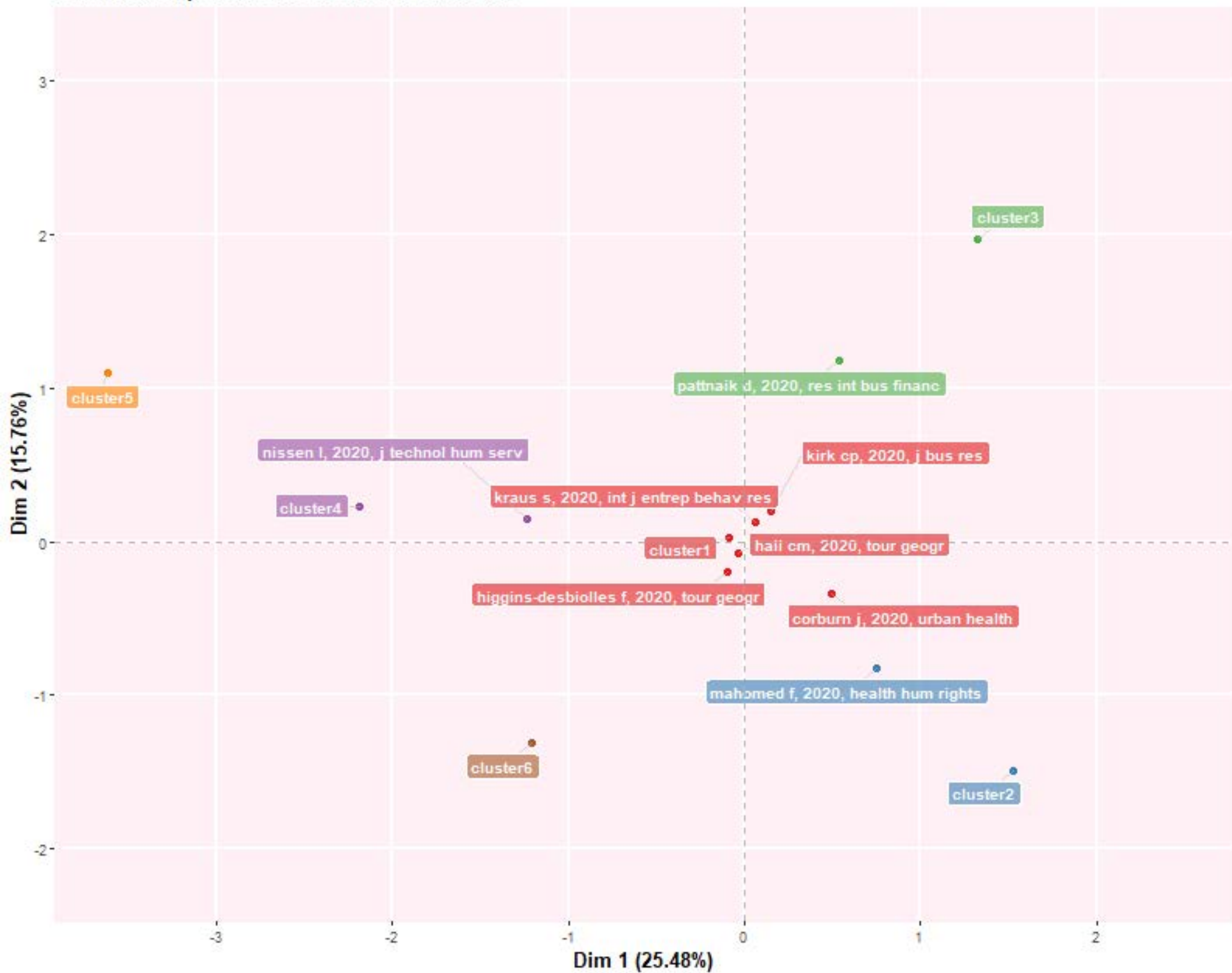
5

Word Map Topic Dendrogram Most Contributing Papers Most Cited Papers Words by Cluster Articles by Cluster

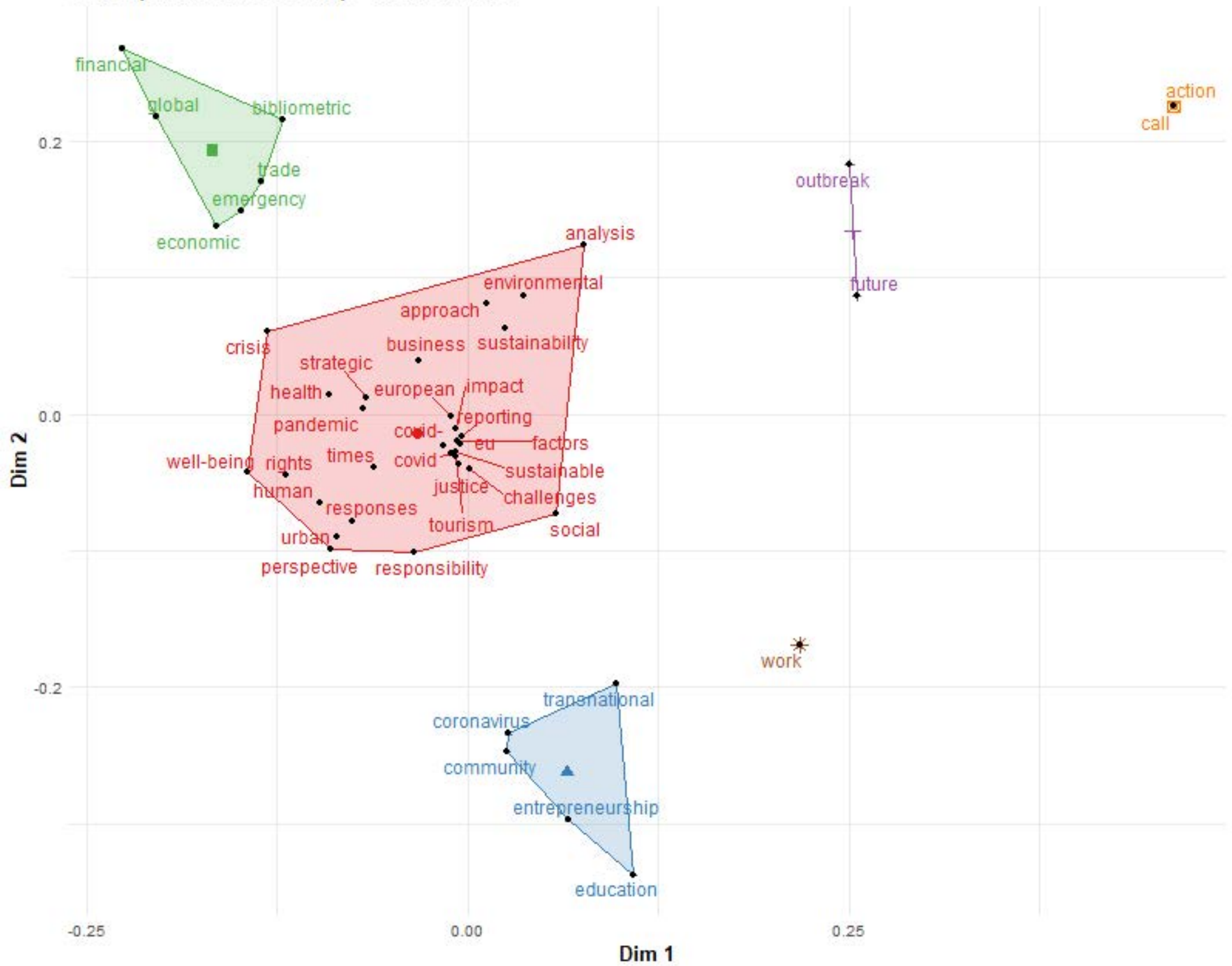
Factorial map of the documents with the highest contributes



Factorial map of the most cited documents

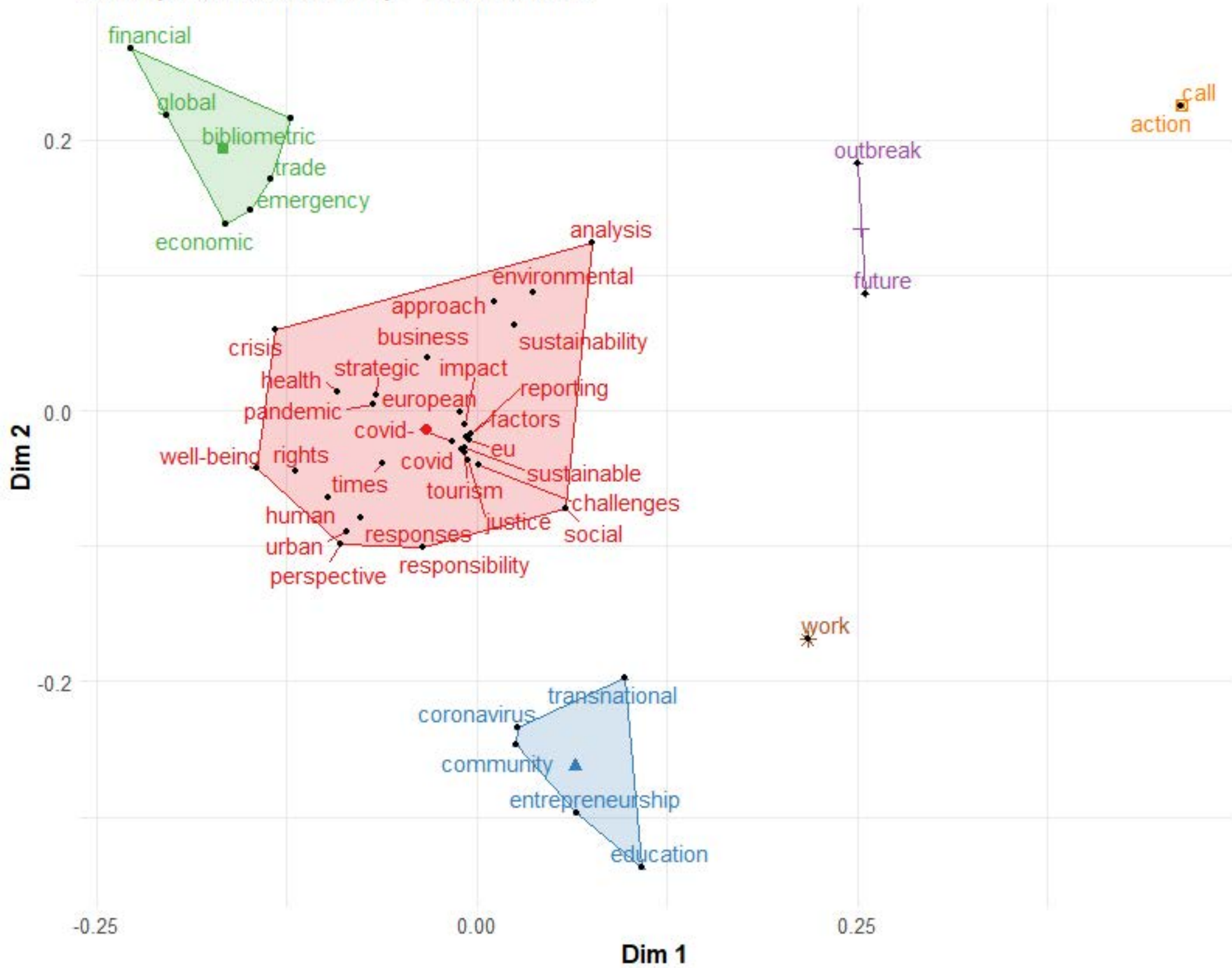


Conceptual Structure Map - method: MDS





Conceptual Structure Map - method: MDS



# Topic Dendrogram

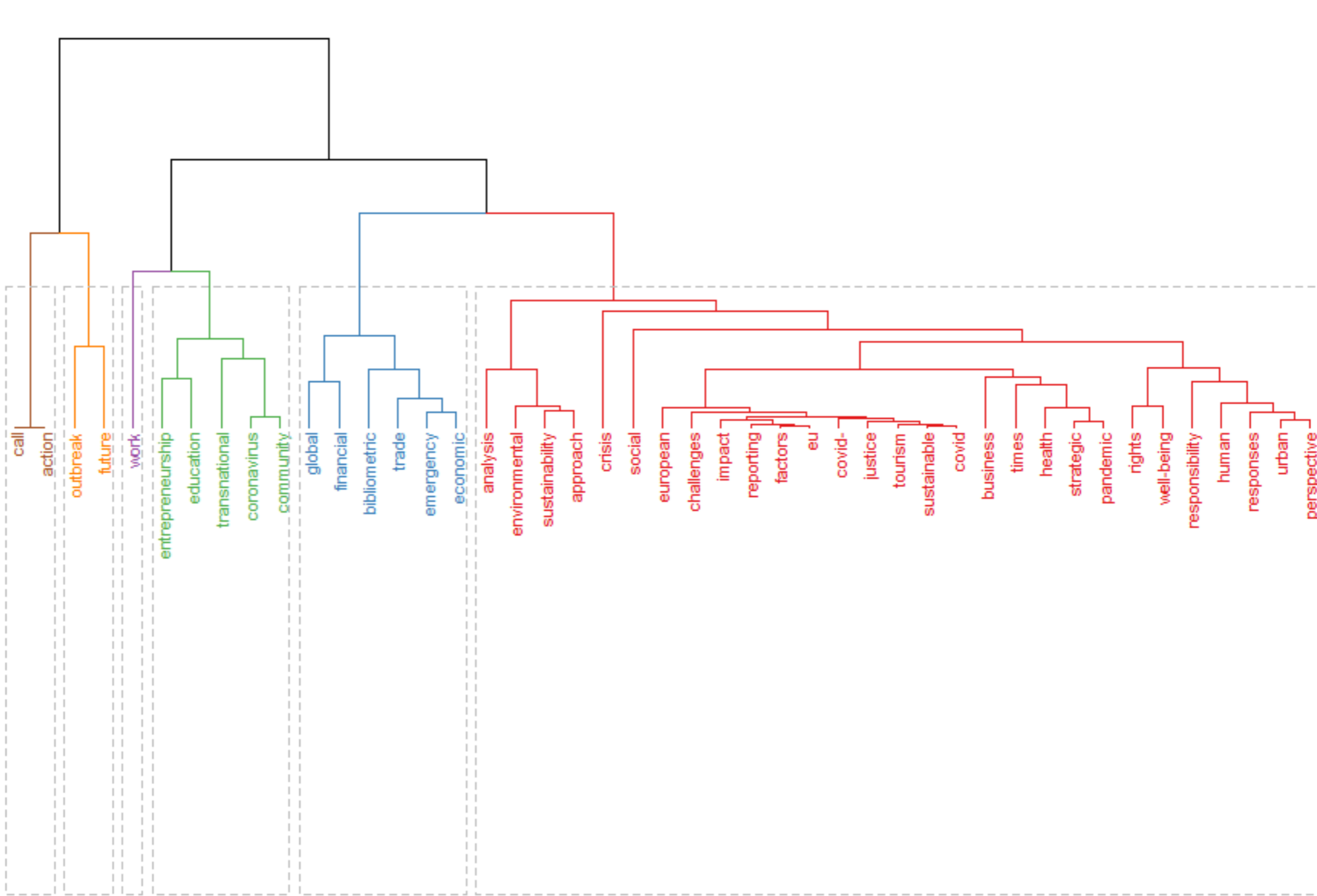
0.50

0.25

0.00

-0.25

-0.50



# Country Collaboration Map

