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Brief History of Safety Science Journal

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Homepage: <https://www.journals.elsevier.com/safety-science>



Basic information of Safety Science

Title	SAFETY SCIENCE
ISSN	0925-7535
EISSN	1879-1042
JCR ABBREVIATION	SAFETY SCI
ISO ABBREVIATION	Saf. Sci.
CATEGORY	OPERATIONS RESEARCH & MANAGEMENT SCIENCE - SCIE ENGINEERING, INDUSTRIAL – SCIE
LANGUAGES:	Multi-Language
REGION	NETHERLANDS
1ST ELECTRONIC JCR YEAR 1997	
PUBLISHER	ELSEVIER
ADDRESS	RADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS
PUBLICATION FREQUENCY	10 issues/year



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Brief history of Safety Science Journal

1976-1990 Journal of Occupational Accidents



1991- Safety Science



Scope of JOA

- Since 1976 the Journal of Occupational Accidents (JOA) has served as an international medium for the publication of research in the science and technology of accidents at work. It gathers under one cover accounts of researches that previously had to find their way into journals of many disciplines and countries, much to the detriment of ease of retrieval.



Scope of the journal

Since 1976 the Journal of Occupational Accidents (JOCA) has served as an international medium for the publication of research in the science and technology of accidents at work. It gathers under one cover accounts of researches that previously had to find their way into journals of many disciplines and countries, much to the detriment of ease of retrieval.

JOCA scans the variegated panorama of occupational safety, as distinct from health, the dividing line being drawn generously. It concentrates on the why and how of the accident as an event and on the many opportunities at all stages for preventive or palliative action. It does this by relating its approach to specific hazards rather than industries, except when an industry such as mining or forestry presents special risks.

Like safety itself, JOCA is multidisciplinary. Its contributors are as likely to be industrial psychologists as chemical engineers, their method analytical, experimental or both. While JOCA is in the forefront of research, it welcomes the occasional state-of-the-art reviews as well as first-hand case histories of accidents and disasters of special significance and statistical surveys of accident experience throughout the world.

For information on submission of manuscripts see inside back cover.

[https://doi.org/10.1016/0376-6349\(86\)90024-6](https://doi.org/10.1016/0376-6349(86)90024-6)

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Herbert Sigmund Eisner (23 June 1921 – 28 June 2011) was a British-German scientist whose work led to high-expansion fire fighting foam. He was also a playwright.

Source: https://en.wikipedia.org/wiki/Herbert_Eisner

Source: [https://doi.org/10.1016/0376-6349\(76\)90001-8](https://doi.org/10.1016/0376-6349(76)90001-8)

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Volume 14, Issue 1

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Scope of the journal

SAFETY SCIENCE, like its predecessor, the *Journal of Occupational Accidents*, serves as an international medium for research in the science and technology of human safety. It extends from safety of people at work to other spheres, such as transport, leisure and home, as well as every other field of man's hazardous activities.

SAFETY SCIENCE is multidisciplinary. Its contributors and its audience range from psychologists to chemical engineers. The journal covers the physics and engineering of safety; its social, policy and organisational aspects; the management of risks; the effectiveness of control techniques for safety; standardization, legislation, inspection, insurance, costing aspects and the like.

SAFETY SCIENCE will enable academic researchers, engineers and decision makers in companies, government agencies and international bodies, to augment their information level on the latest trends in the field, from policymakers and management scientists to transport engineers.

The journal focusses primarily on original research papers across its whole scope, but also welcomes state-of-the-art review papers and first hand case histories on accidents and disasters of special significance. The emphasis is on safety risks, as distinct from health risks, but may include both.

Most papers will be original publications, but the editors will consider translation into English of important papers previously published elsewhere in another language. In exceptional cases the journal will publish a paper in French or German.

For information on submission of manuscripts see the inside back cover.

[https://doi.org/10.1016/0925-7535\(91\)90009-B](https://doi.org/10.1016/0925-7535(91)90009-B)



From *Journal of occupational accidents* to *Safety Science*

Editorial

Volume 14, Issue 2, August 1991, Page iii

Editing JOURNAL OF OCCUPATIONAL ACCIDENTS over the last 14 years has been an education in more than one sense. First, we found, perhaps not unexpectedly, that most of the science of prevention, causation, occurrence and analysis of accidents is much the same irrespective of whether they happen at work or leisure, in the home or on the roads, on the railways or at sea. Natural disasters apart, the prime cause is always man: risk maker or taker, designer or manufacturer, user or manager, builder or dweller, driver or passenger. Accordingly we see no reason and some advantages why we should not expand our remit to embrace the whole of human safety, not just that applying to work.

Again, judging by the number of submissions, there has, over the years, grown considerable interest in human, as distinct from natural, science aspects of safety. The psychology and organisation of safety is every bit as important as its physics or chemistry; the Journal can therefore consider itself fortunate in having secured the services of Dr. Andrew Hale, Professor of General Safety Science at the Delft University of Technology, The Netherlands, as joint editor. He needs no introduction to students of safety science throughout the world.

At the same time we would like to take the opportunity to widen the scope of the journal to include the rapidly growing field of research into organisational and policy aspects of safety. We would accordingly welcome research and review papers on safety management, information systems, costing, insurance, and policy issues such as standardisation, government inspection and legislation.

For these and other reasons we feel that the time has come to reflect these changes in our journal's name from the familiar JOURNAL OF OCCUPATIONAL ACCIDENTS to one which we hope will soon prove equally familiar: SAFETY SCIENCE.

Apart from the expansion in subject matter mentioned above we would like to see more papers giving structured case histories of actual accidents. Again, although most of our submissions will continue to present original pieces of research, there is always room for papers that review the state of the art in different areas of this research. We would welcome more of these.

We hope that SAFETY SCIENCE will prove equally acceptable to our readers as its predecessor.

Herbert Eisner

[https://doi.org/10.1016/0925-7535\(91\)90001-3](https://doi.org/10.1016/0925-7535(91)90001-3)

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doi:10.1016/0925-7535(92)90035-x

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Pages 1-110 (January 2010)

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1976-1993



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1991-2009



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2010-2012



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2013-2017



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2018-

Aims & Scope of Safety Science

- Safety Science serves as an international medium for research in **the science and technology of human and industrial safety**. It extends from safety of people at work to other spheres, such as transport, energy or infrastructures, as well as every other field of man's hazardous activities.
- Safety Science is multidisciplinary. Its contributors and its audience range from social scientists to engineers. The journal covers the physics and engineering of safety; its social, policy and organizational aspects; the assessment, management and communication of risks; the effectiveness of control and management techniques for safety; standardization, legislation, inspection, insurance, costing aspects, human behavior and safety and the like.
- Papers addressing the interfaces between technology, people and organizations are especially welcome.
- Safety Science will enable academic researchers, engineers and decision-makers in companies, government agencies and international bodies, to augment their information level on the latest trends in the field, from policy-makers and management scientists to engineers.
- The journal focuses primarily on original research papers across its whole scope, but also welcomes state-of-the-art review papers and first-hand case histories on accidents and disasters of special significance and discussion papers on hot topics.

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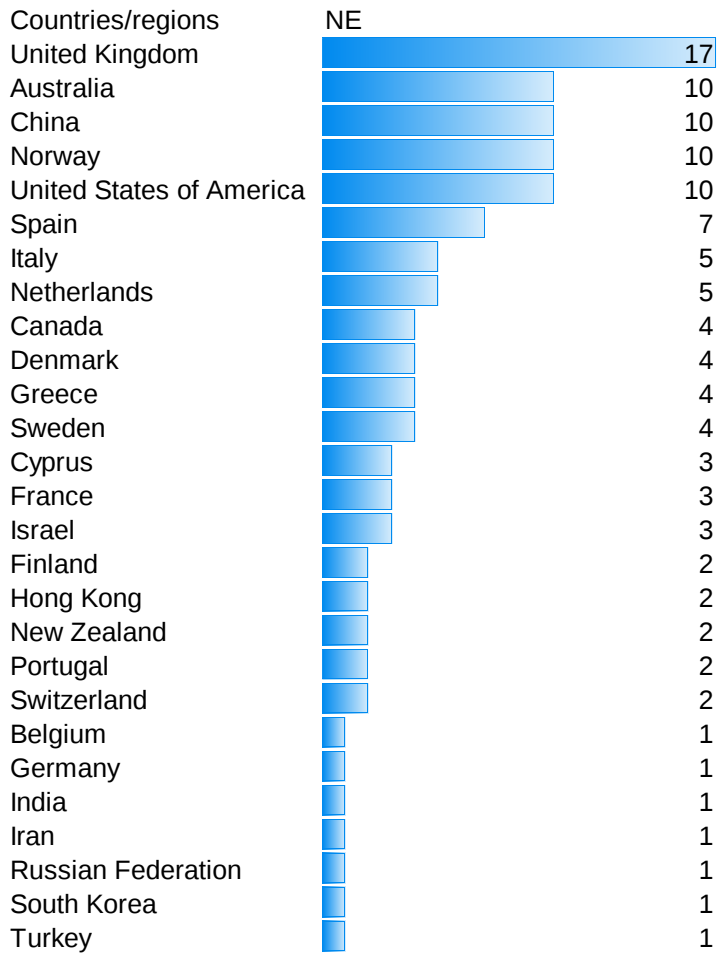
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Impact of Safety Science

Year	Total Citations	Journal impact factor	JIF without self cites	5 Year Impact Factor	Immediacy Index	Average JIF	Percentile
1997	85	0.167	0.092	n/a	0.059	20.593	
1998	112	0.277	0.192	n/a	0.055	51.856	
1999	138	0.217	0.198	n/a	0	35.661	
2000	162	0.307	0.182	n/a	0.194	46.015	
2001	245	0.609	0.333	n/a	0.195	83.318	
2002	179	0.403	0.364	n/a	0.089	44.763	
2003	275	0.43	0.395	n/a	0.13	38.437	
2004	387	0.593	0.473	n/a	0.189	64.894	
2005	343	0.606	0.444	n/a	0.061	54.992	
2006	541	0.725	0.569	n/a	0.158	60.781	
2007	629	0.427	0.299	0.908	0.037	20.947	
2008	921	0.836	0.721	1.204	0.149	45.75	
2009	1,274	1.22	0.905	1.426	0.275	62.255	
2010	1,788	1.637	1.105	1.724	0.166	77.132	
2011	1,786	1.402	1.034	1.578	0.327	72.289	
2012	2,393	1.359	1.027	1.785	0.276	63.974	
2013	3,181	1.672	1.257	2.02	0.398	74.286	
2014	3,959	1.831	1.439	2.21	0.491	76.916	
2015	4,669	2.157	1.627	2.284	0.475	82.026	
2016	5,969	2.246	1.813	2.668	0.563	69.435	
2017	7,746	2.835	2.341	3.12	1.126	78.54	
2018	9,895	3.619	2.958	3.923	0.788	80.448	
2019	12,630	4.105	3.304	4.358	1.027	79.725	
2020	17,184	4.877	4.209	5.252	1.889	73.597	

Journal Impact Factor™ is calculated using the following metrics:

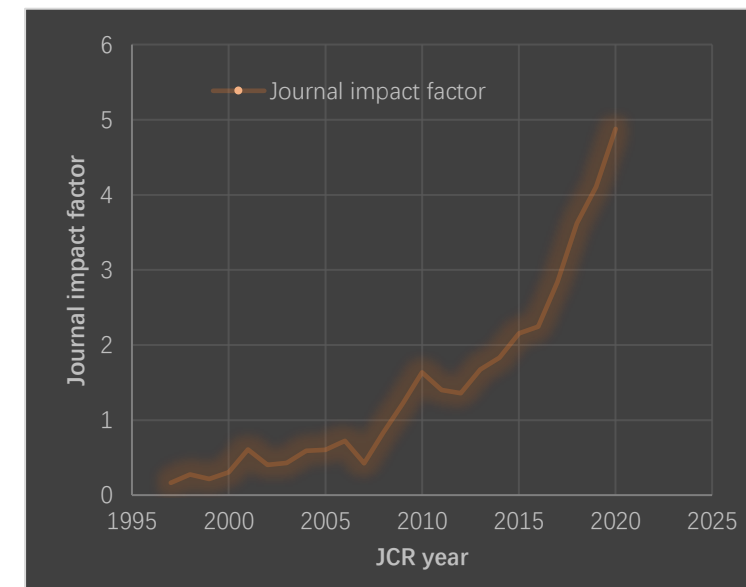
Citations in 2020 to items published
in 2018 (1,896) + 2019 (1,981)

3,877

= 4.877

Number of citable items in 2018
(339) + 2019 (456)

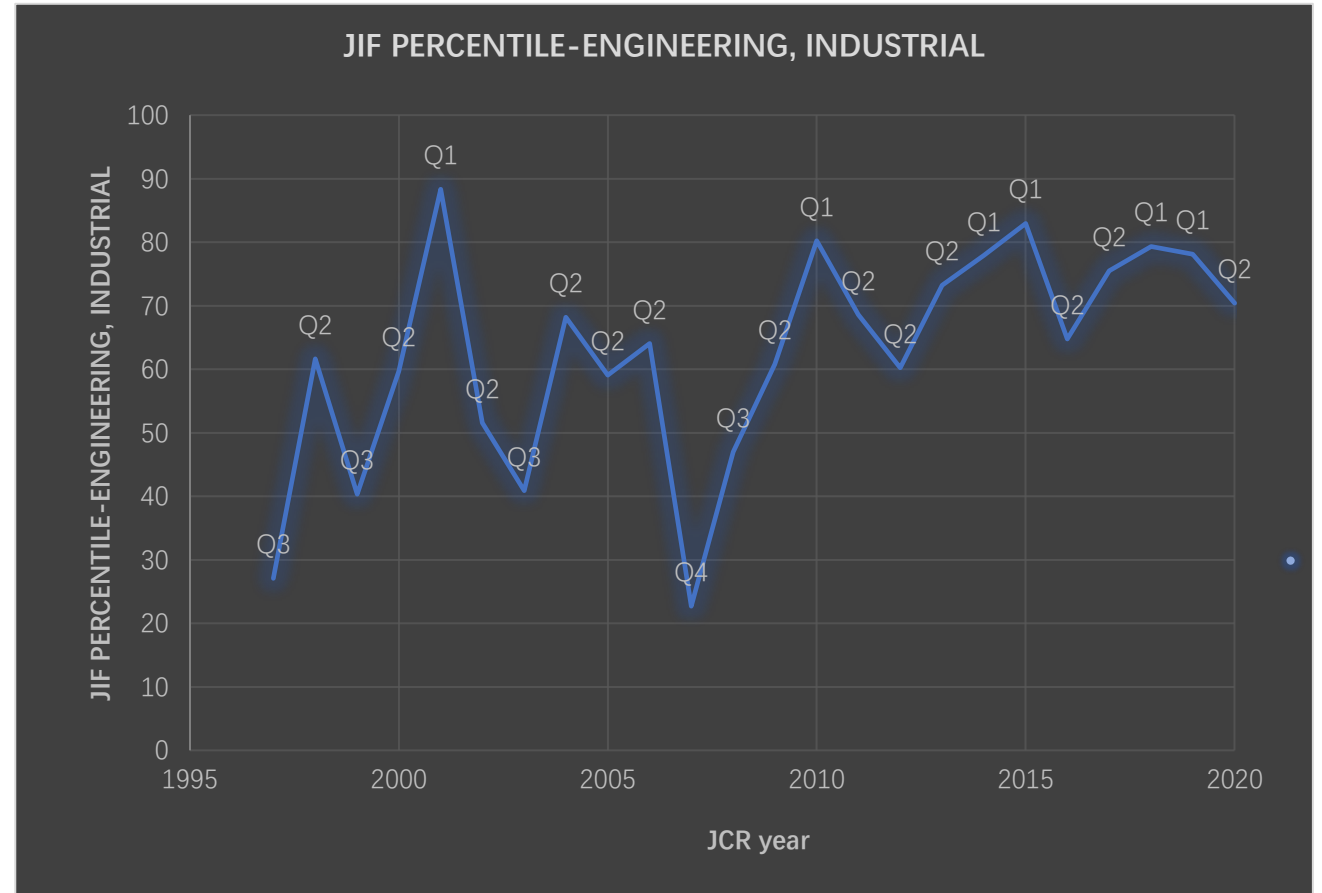
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Impact of Safety Science

CATEGORY: ENGINEERING, INDUSTRIAL **15/49**

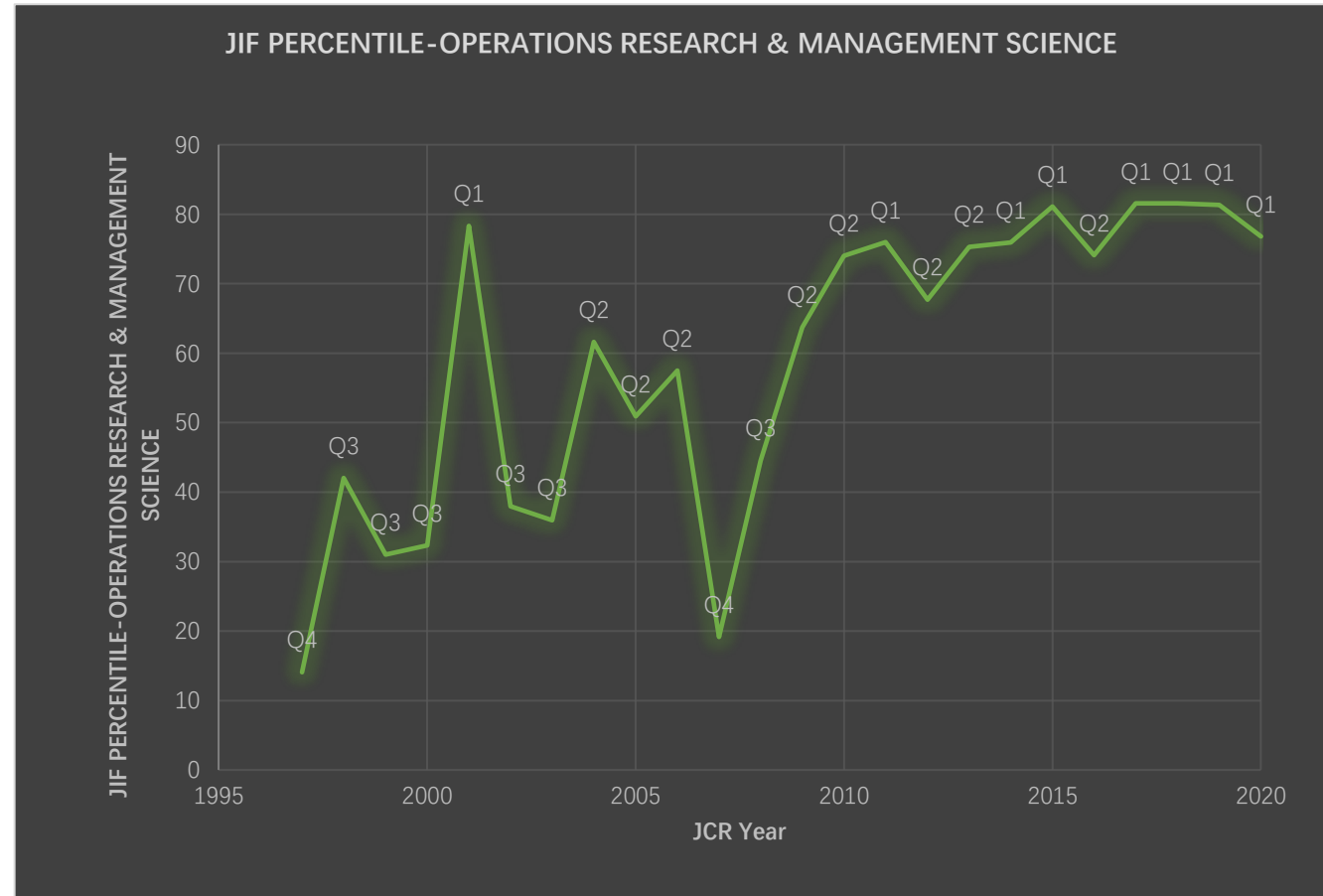
JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
1997	18/24	Q3	27.08
1998	12/30	Q2	61.67
1999	19/31	Q3	40.32
2000	13/31	Q2	59.68
2001	4/30	Q1	88.33
2002	16/32	Q2	51.56
2003	20/33	Q3	40.91
2004	11/33	Q2	68.18
2005	14/33	Q2	59.09
2006	12/32	Q2	64.06
2007	26/33	Q4	22.73
2008	18/33	Q3	46.97
2009	15/37	Q2	60.81
2010	8/38	Q1	80.26
2011	14/43	Q2	68.6
2012	18/44	Q2	60.23
2013	12/43	Q2	73.26
2014	10/43	Q1	77.91
2015	8/44	Q1	82.95
2016	16/44	Q2	64.77
2017	12/47	Q2	75.53
2018	10/46	Q1	79.35
2019	11/48	Q1	78.13
2020	15/49	Q2	70.41



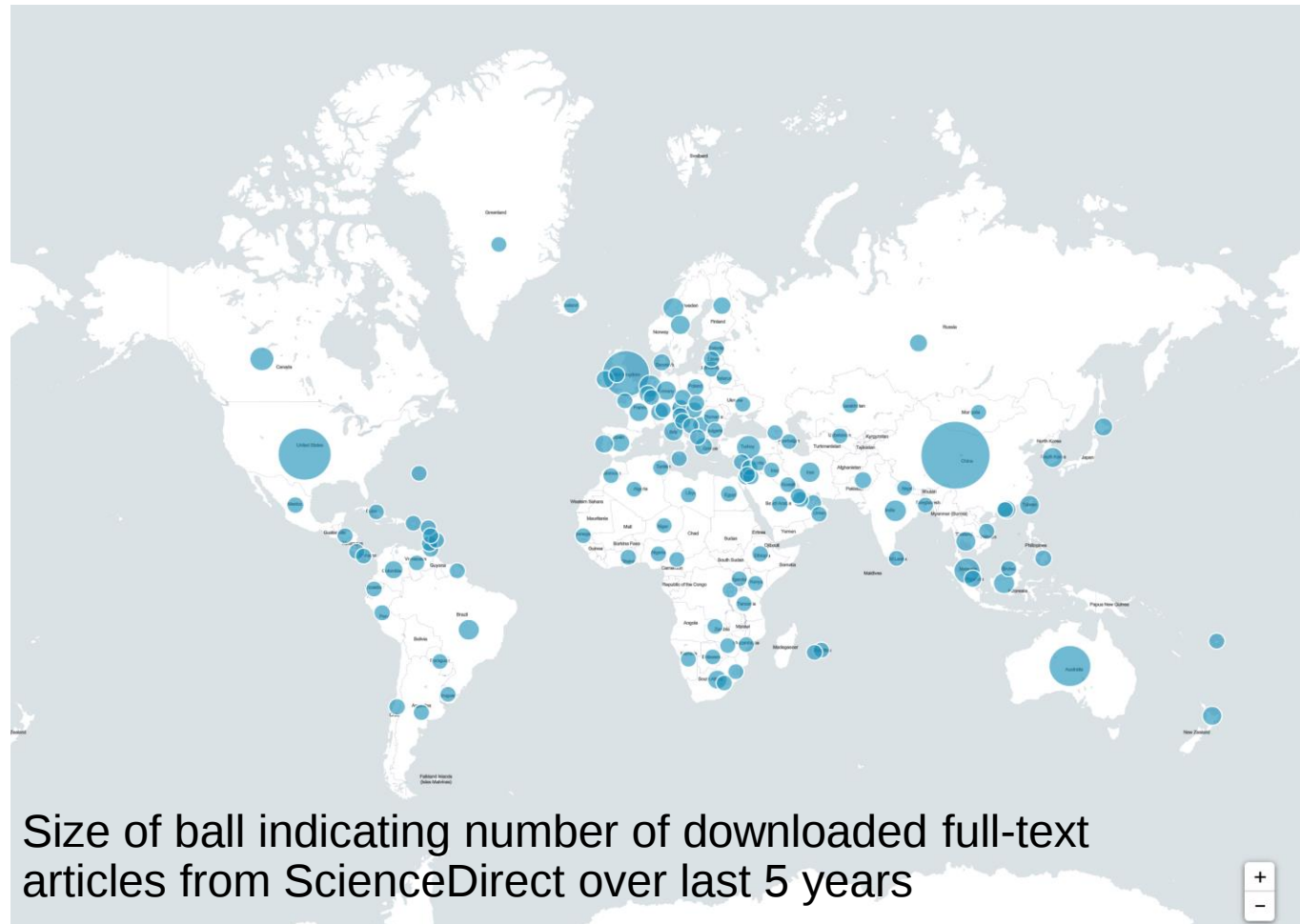
Impact of Safety Science

OPERATIONS RESEARCH & MANAGEMENT SCIENCE **20/84**

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
1997	34/39	Q4	14.1
1998	26/44	Q3	42.05
1999	35/50	Q3	31
2000	35/51	Q3	32.35
2001	12/53	Q1	78.3
2002	34/54	Q3	37.96
2003	37/57	Q3	35.96
2004	22/56	Q2	61.61
2005	28/56	Q2	50.89
2006	26/60	Q2	57.5
2007	49/60	Q4	19.17
2008	36/64	Q3	44.53
2009	27/73	Q2	63.7
2010	20/75	Q2	74
2011	19/77	Q1	75.97
2012	26/79	Q2	67.72
2013	20/79	Q2	75.32
2014	20/81	Q1	75.93
2015	16/82	Q1	81.1
2016	22/83	Q2	74.1
2017	16/84	Q1	81.55
2018	16/84	Q1	81.55
2019	16/83	Q1	81.33
2020	20/84	Q1	76.79

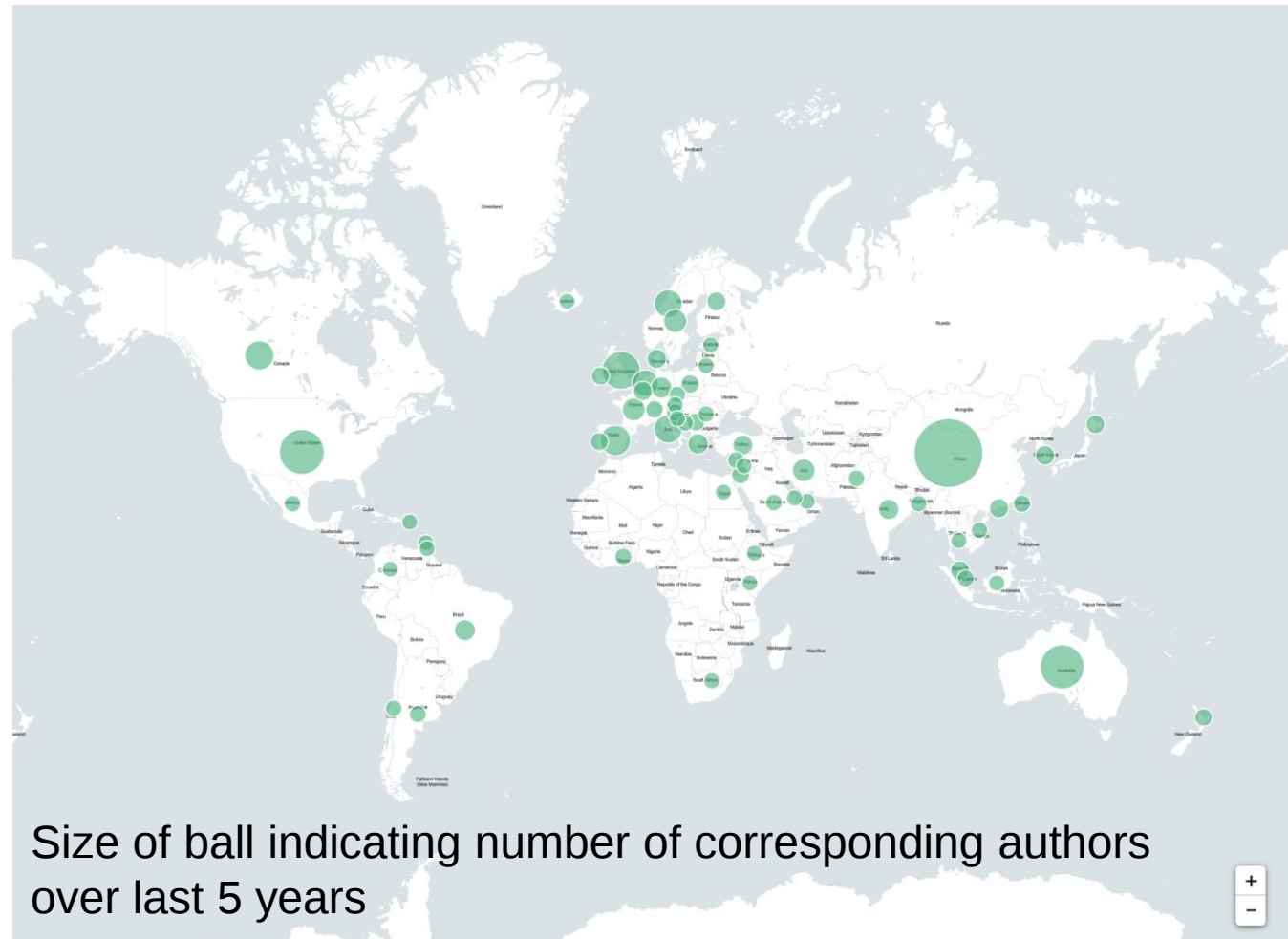


Indication of worldwide usage for this journal at the country/region level over the last five years (as available)



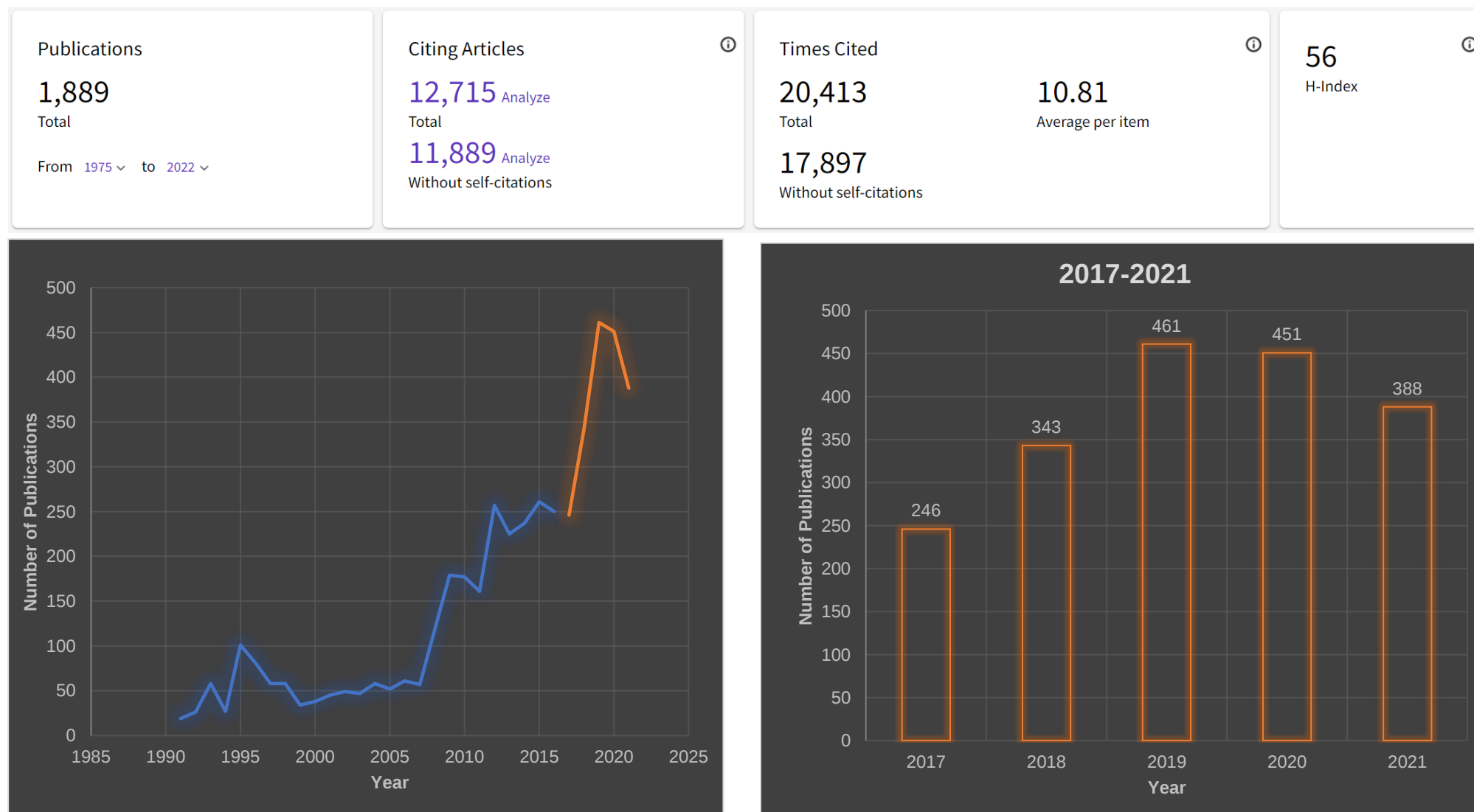
No.	TOP COUNTRIES/ REGIONS	DOWNLOADS
1	China	936874
2	United States	653770
3	United Kingdom	544180
4	Australia	455677
5	Malaysia	178727
6	Canada	141379
7	Turkey	140733
8	Netherlands	114671
9	India	106876
10	Brazil	90005
11	Indonesia	89869
12	Norway	86138
13	Iran	83627
14	South Korea	76659
15	Thailand	72096
16	Germany	67190
17	Sweden	65316
18	Taiwan	64913
19	New Zealand	57859
20	Italy	57328

Indication of the location of corresponding authors.



No.	TOP COUNTRIES/ REGIONS	AUTHORS
1	China	307
2	United States	169
3	Australia	164
4	United Kingdom	128
5	Spain	85
6	Canada	78
7	Italy	72
8	Norway	70
9	Netherlands	60
10	Sweden	42
11	France	41
12	Iran	40
13	Germany	31
14	Brazil	30
15	Greece	27
16	India	26
17	Turkey	24
18	Denmark	20
19	South Korea	20
20	Belgium	19

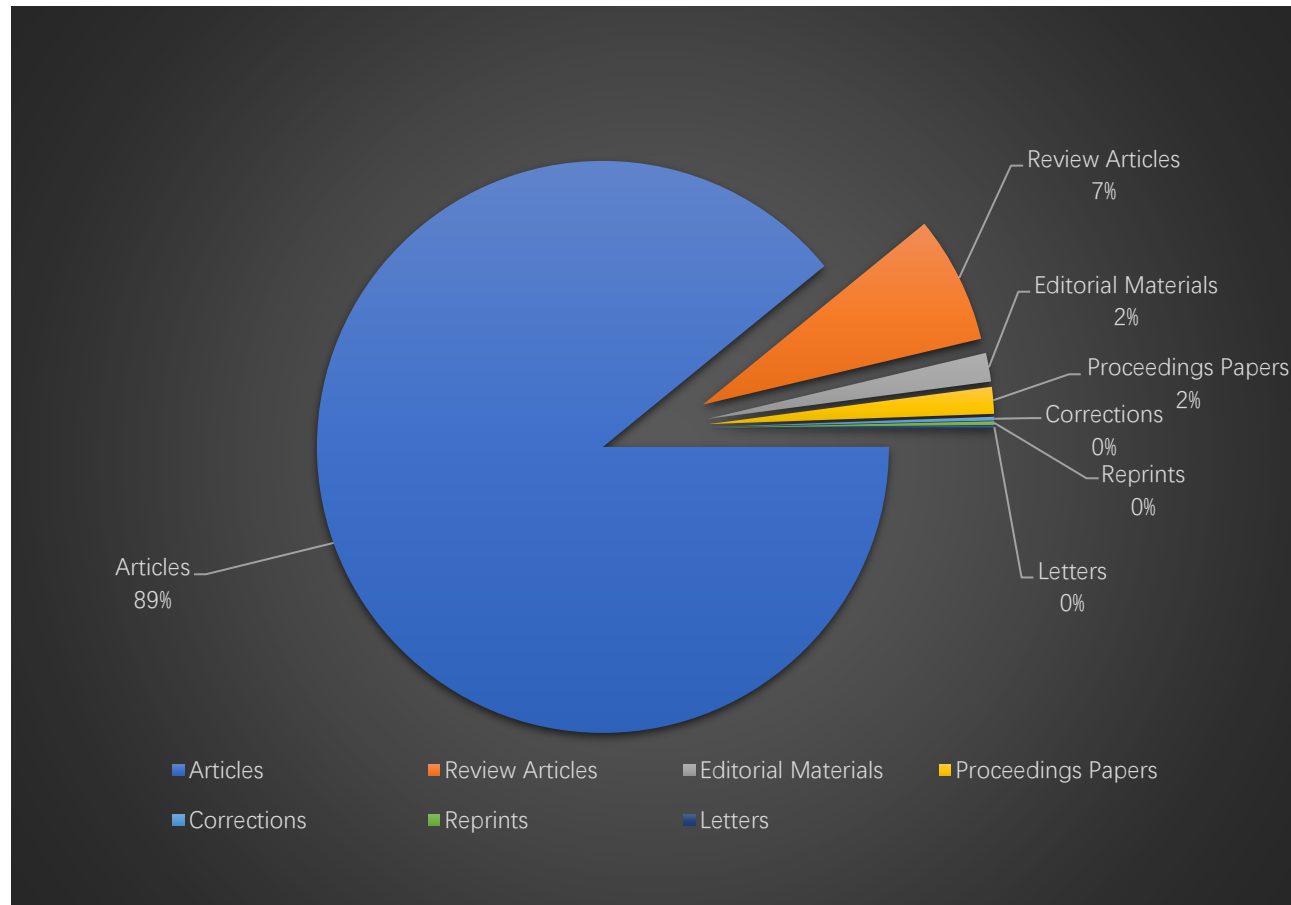
Bibliometric mapping of Safety Science in recent 5 years



Data Source: Clarivate Analytics

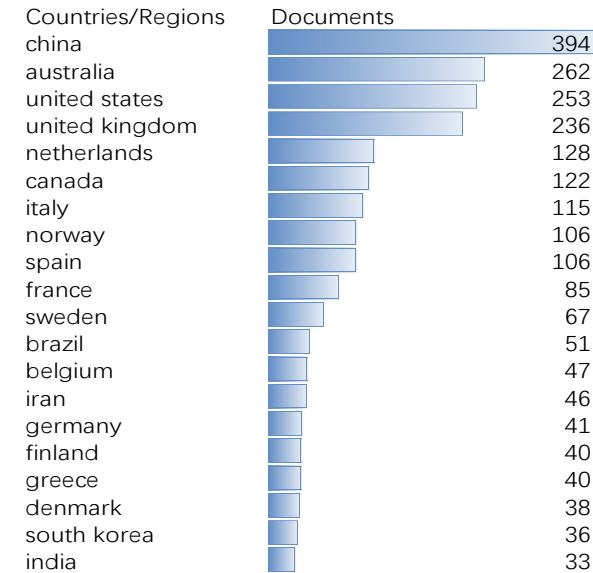
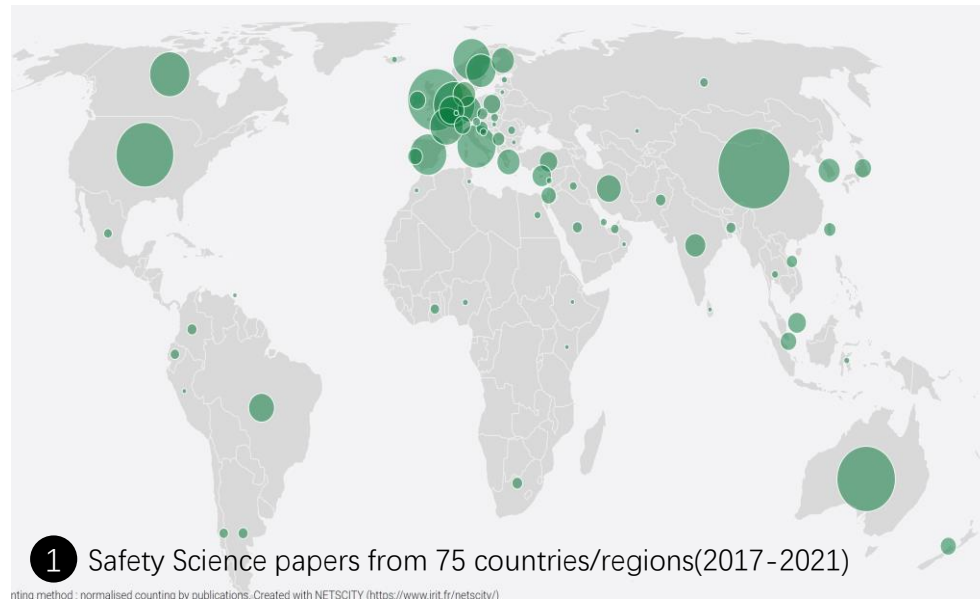
1889 publications from 2017 to 2021

Document Types (2017-2021)

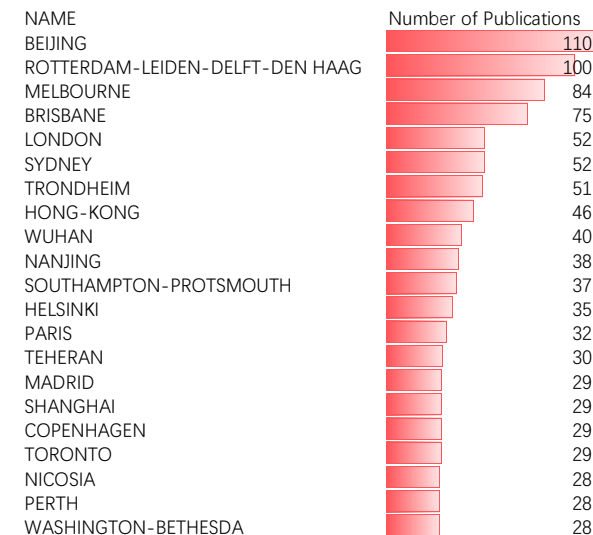
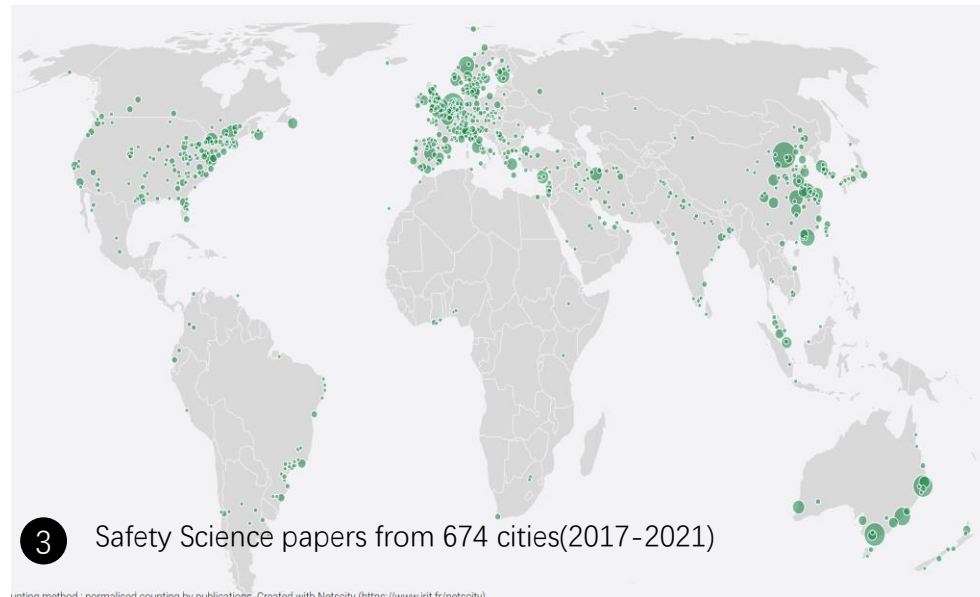


Document Types	Record Count	% of 1889
Articles	1709	90.471
Review Articles	138	7.305
Editorial Materials	31	1.641
Proceedings Papers	29	1.535
Corrections	4	0.212
Reprints	4	0.212
Letters	3	0.159

Outputs in different Countries/Regions(2017-2021)

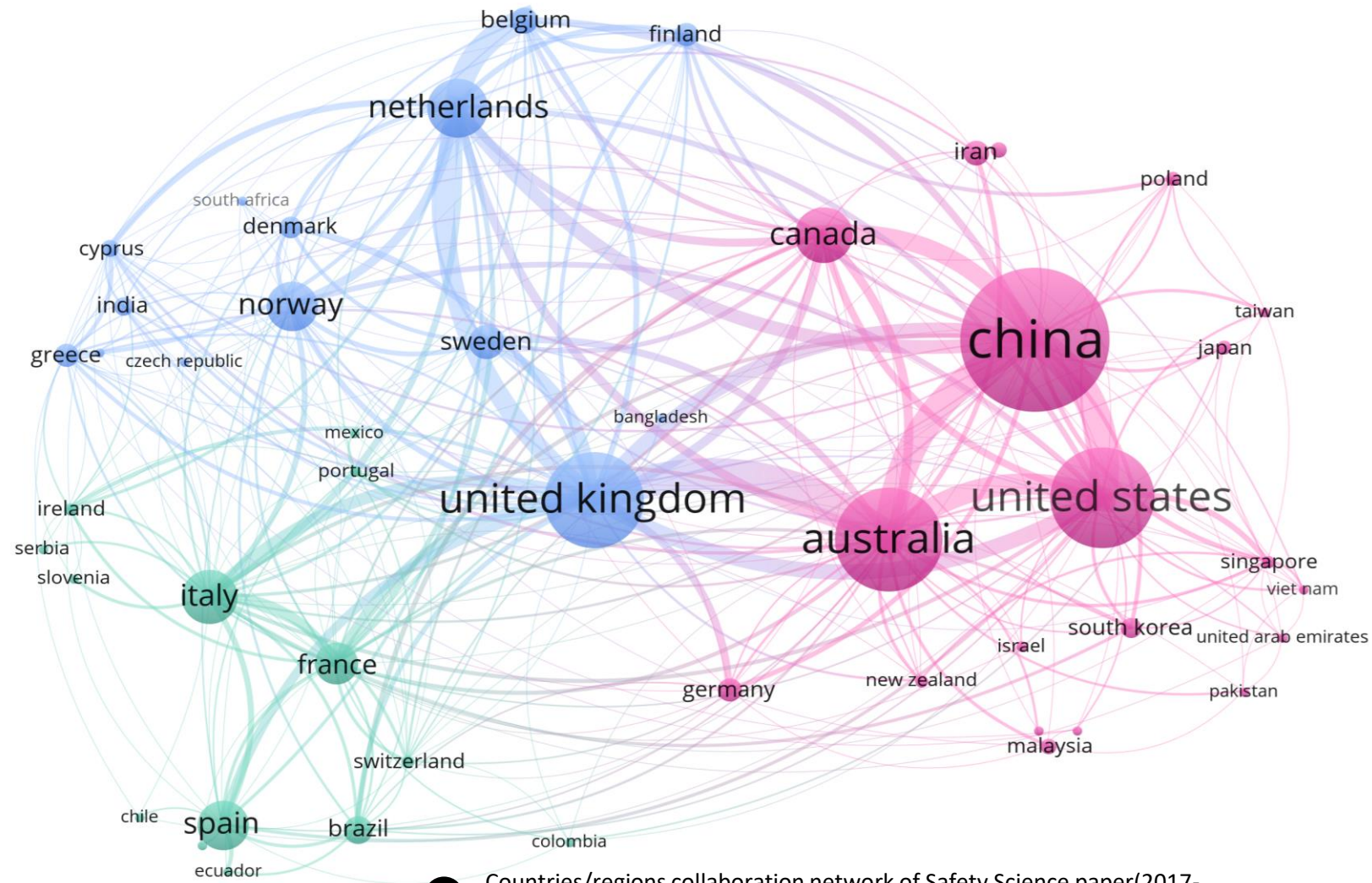


2 Top 20 high productive countries/regions in Safety Science



4 Top 20 high productive cities in Safety Science

Countries/regions collaboration network of Safety Science(2017-2021)

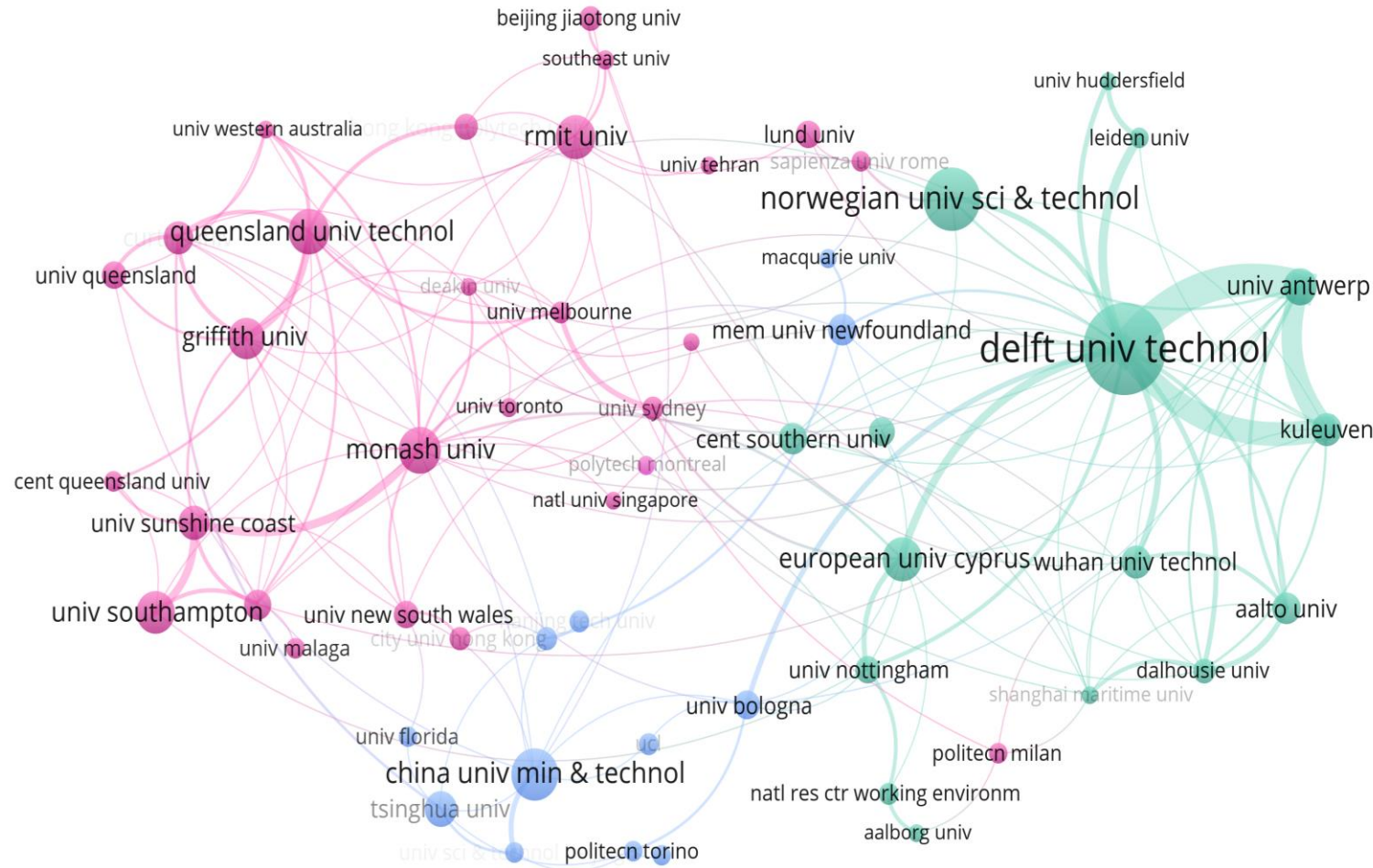


1

Countries/regions collaboration network of Safety Science paper(2017-2021), Countries/regions published at least 5 papers were included in the network. View online <https://tinyurl.com/y6xlpr7g>

Institution's collaboration network of Safety Science(2017-2021)

2 Top 20 high productive institutions in Safety Science(2017-2021)

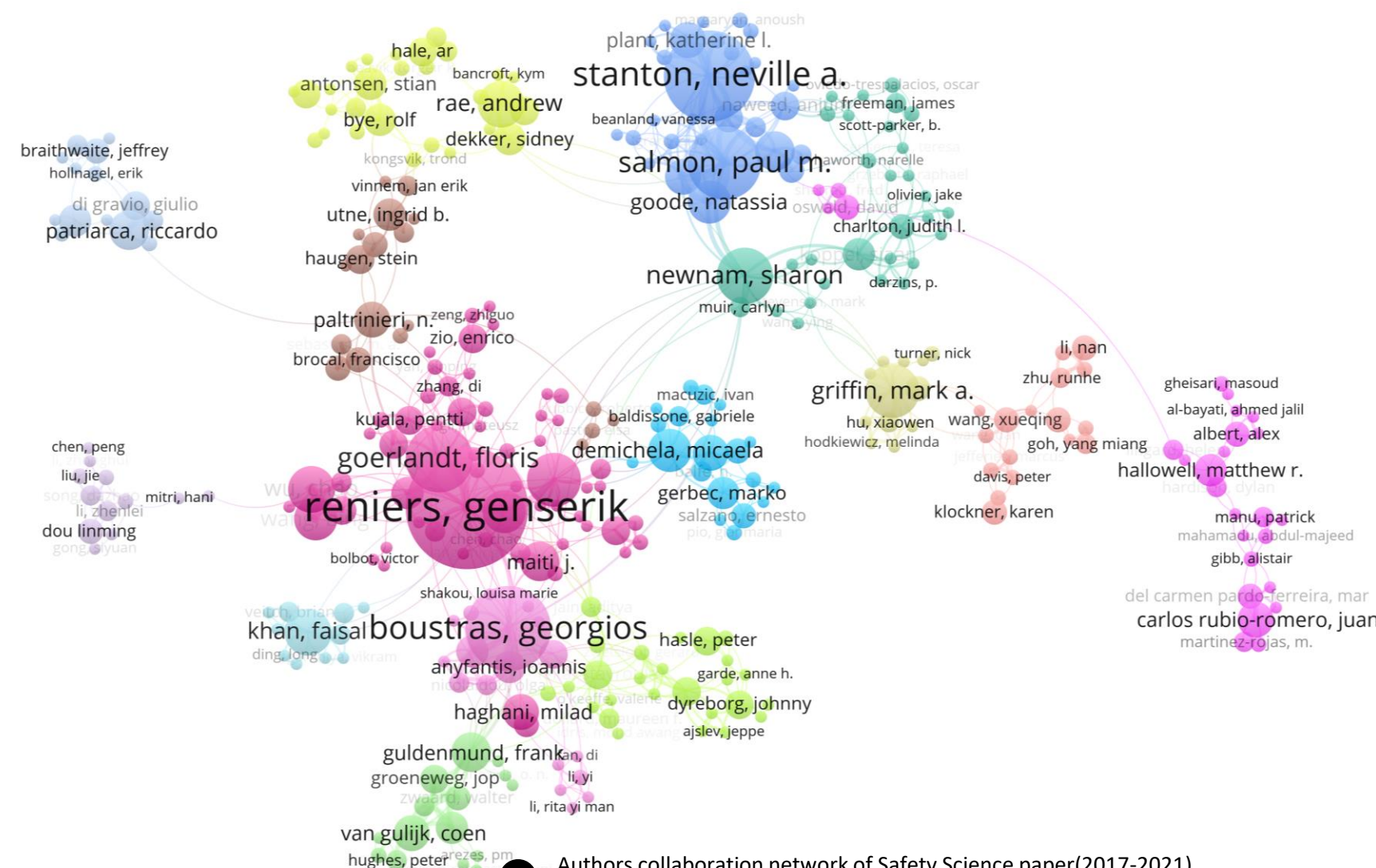


Institutions	Documents
delft univ technol	76
norwegian univ sci & technol	47
china univ min & technol	38
monash univ	33
queensland univ technol	31
european univ cyprus	30
rmit univ	30
univ southampton	29
griffith univ	28
univ antwerp	25
tsinghua univ	23
univ sunshine coast	22
curtin univ	21
kuleuven	21
wuhan univ technol	21
aalto univ	20
cent southern univ	20
mem univ newfoundland	20
loughborough univ	19
univ bologna	18
univ stavanger	18

1 Institution's collaboration network of Safety Science paper(2017-2021), Countries/regions published at least 10 papers were included in the network.

View online: <https://tinyurl.com/y5e955xw>

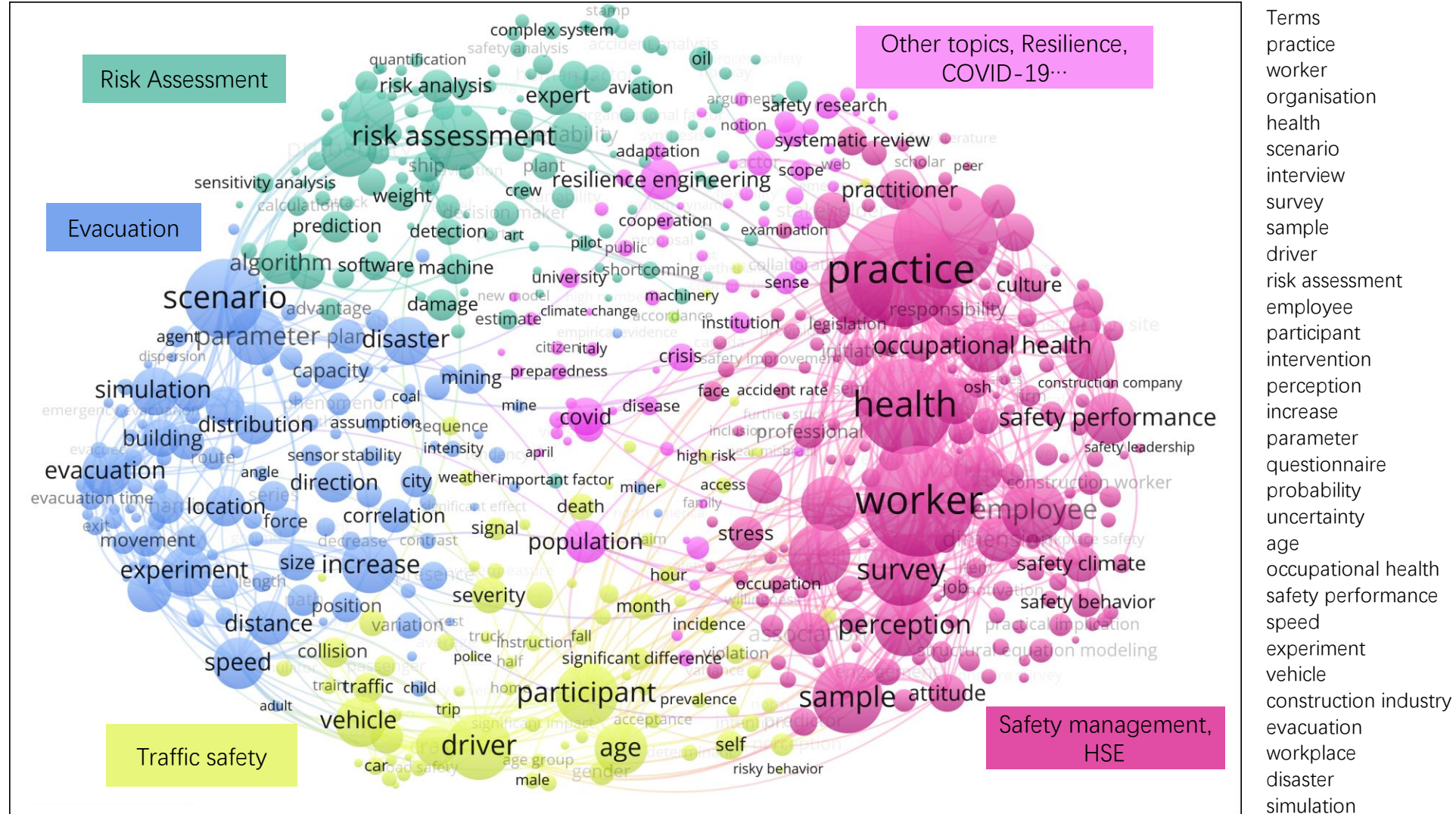
Authors' collaboration network of Safety Science(2017-2021)



Authors	Documents
reniers, genserik	36
stanton, neville a.	25
boustras, georgios	23
salmon, paul m.	19
goerlandt, floris	17
newnam, sharon	14
cozzani, valerio	13
griffin, mark a.	13
khan, faisal	11
rae, andrew	11
wu, chao	11
demichela, micaela	10
goode, natassia	10
khakzad, nima	10
wang, bing	10
guldenmund, frank	9
maiti, j.	9
patriarca, riccardo	9
watsonson, patrick	9
carlos rubio-romero, juan	8
haghani, milad	8
leva, maria chiara	8
paltrinieri, n.	8
plant, katherine l.	8
read, gemma j. m.	8
van gulijk, coen	8
antonson, stian	7
anyfantis, ioannis	7
bye, rolf	7
dekker, sidney	7
dimopoulos, christos	7
gerbec, marko	7
hallowell, matthew r.	7
koppel, sjaan	7
li, jie	7
saurin, tarcisio abreu	7
swuste, paul	7
utne, ingrid b.	7
albrechtsen, eirik	6
banda, osiris a. valdez	6
di gravio, giulio	6
dyreborg, johnny	6
groeneweg, jop	6
hale, ar	6
hasle, peter	6
haugen, stein	6
huang, lang	6
kines, pete	6
kujala, pentti	6
leka, stavroula	6
montewka, jakub	6
naweed, anjum	6
provan, david j.	6
van gelder, pieter h. a. j. m.	6
walker, guy h.	6
wybo, jean-luc	6
zio, enrico	6

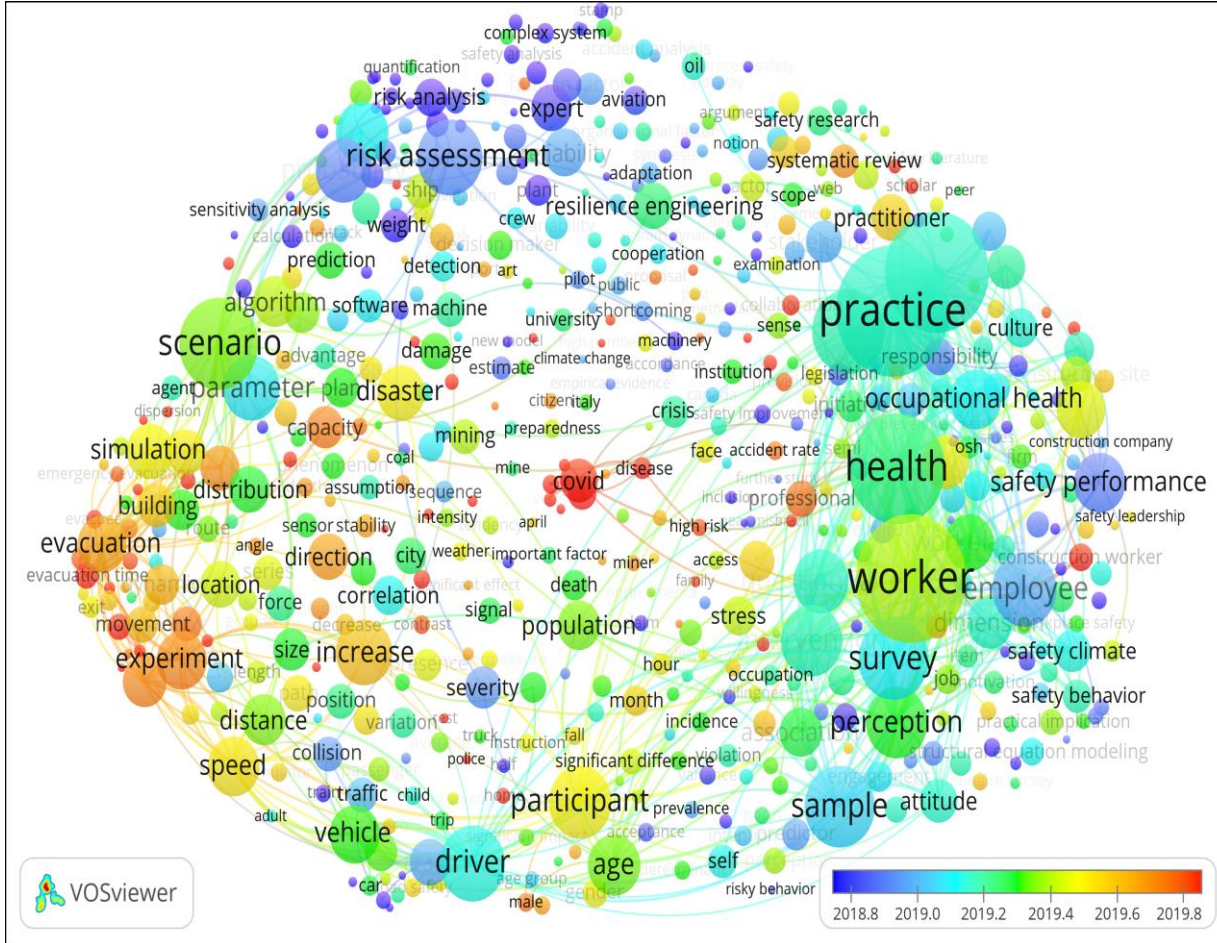
1 Authors collaboration network of Safety Science paper(2017-2021), Countries/regions published at least 2 papers were included in the network. View online: <https://tinyurl.com/y4zmeufv>

Research topics of Safety Science paper (2017-2021)

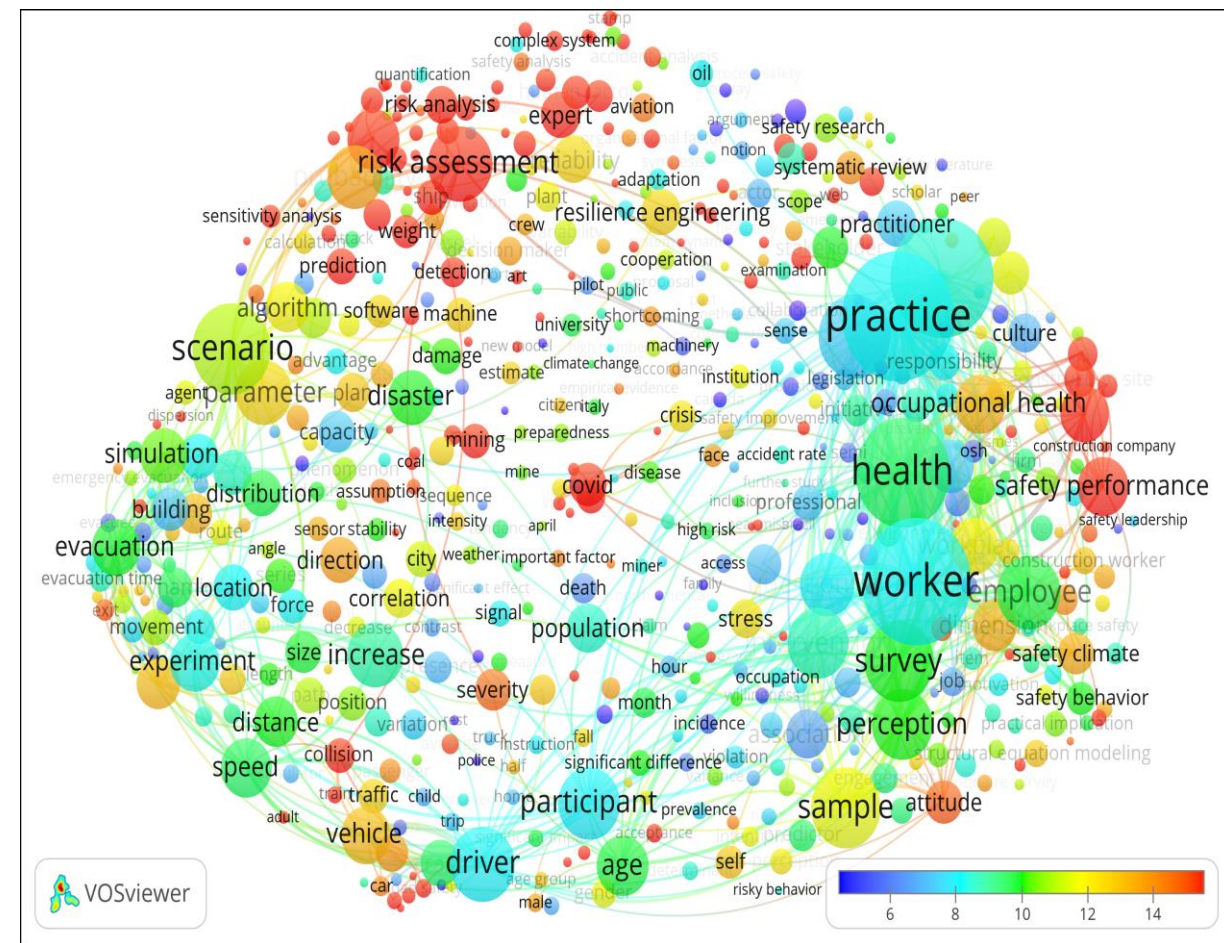


1 Terms clusters of Safety Science papers(2017-2021), these terms were extracted from the title and abstract of 1889 papers. View online: <https://tinyurl.com/y36tp8yu>

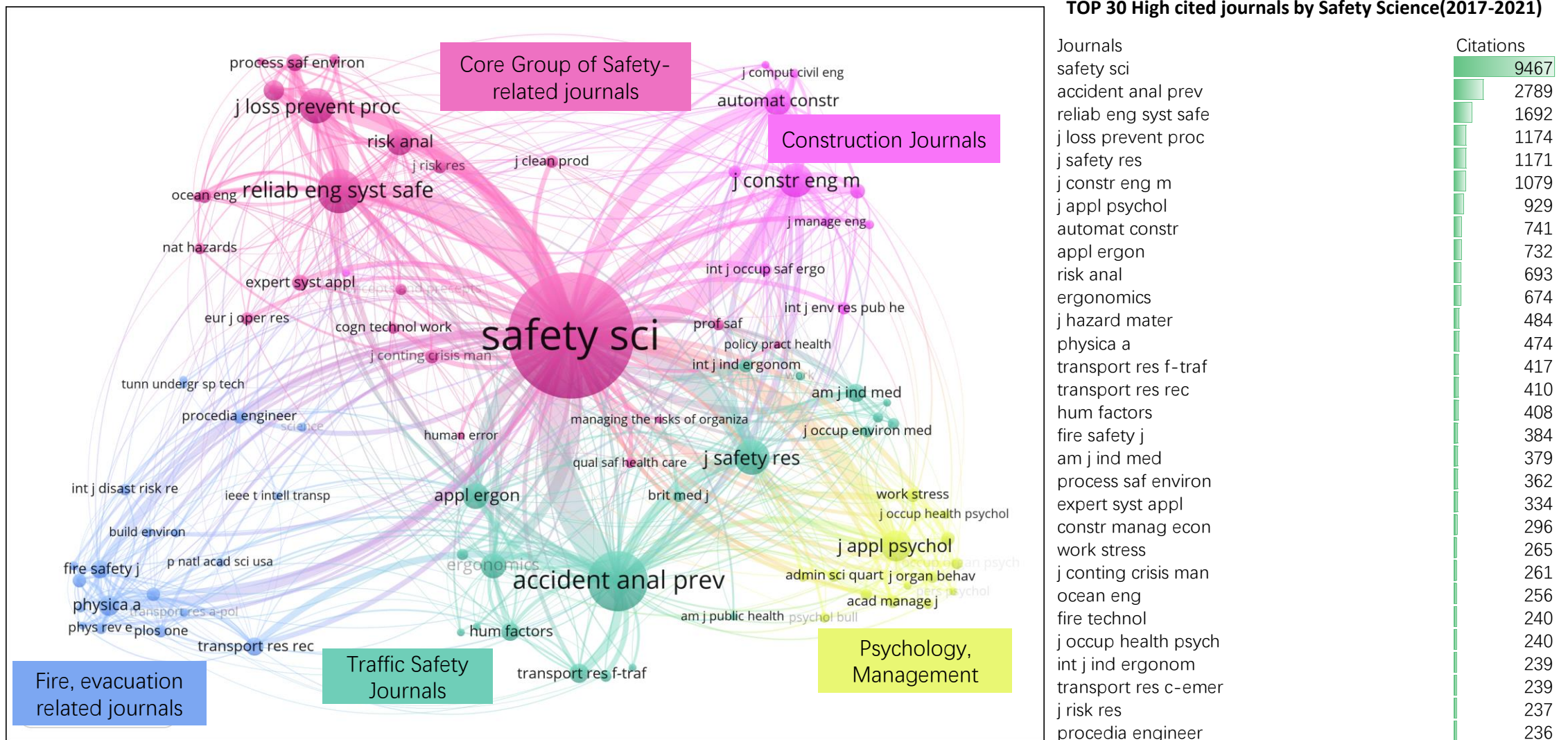
Research topics of Safety Science paper (2017-2021)



- 1 The warm node are recent topics in Safety Science(for example, COVID-19 and terms from evacuation domains)

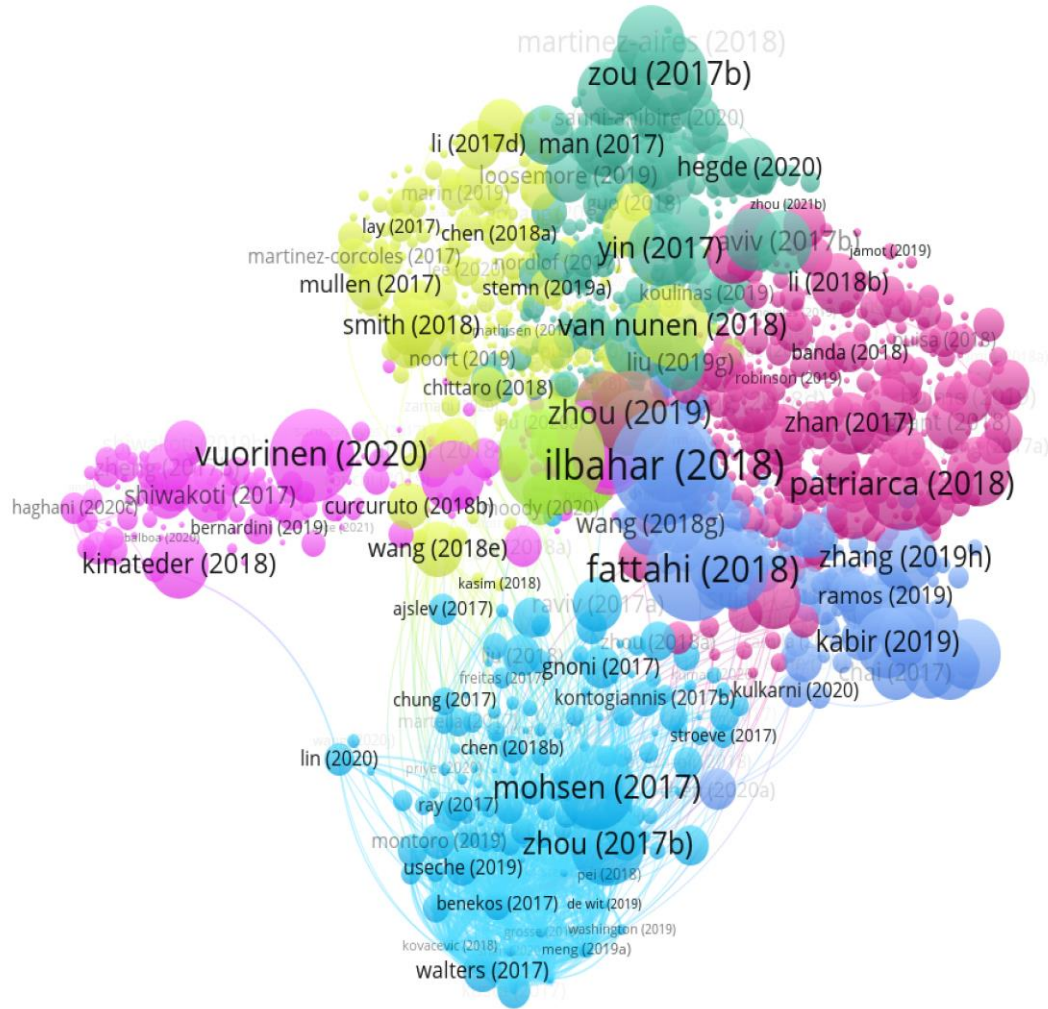


- 2 The warm terms have a higher impact than other terms(for example, COVID-19, construction safety and terms from risk assessment domains)



1 Journals co-citation network of Safety Science. The size of the node is proportional to the cited frequency.
View online, <https://tinyurl.com/yxnrf4cl>

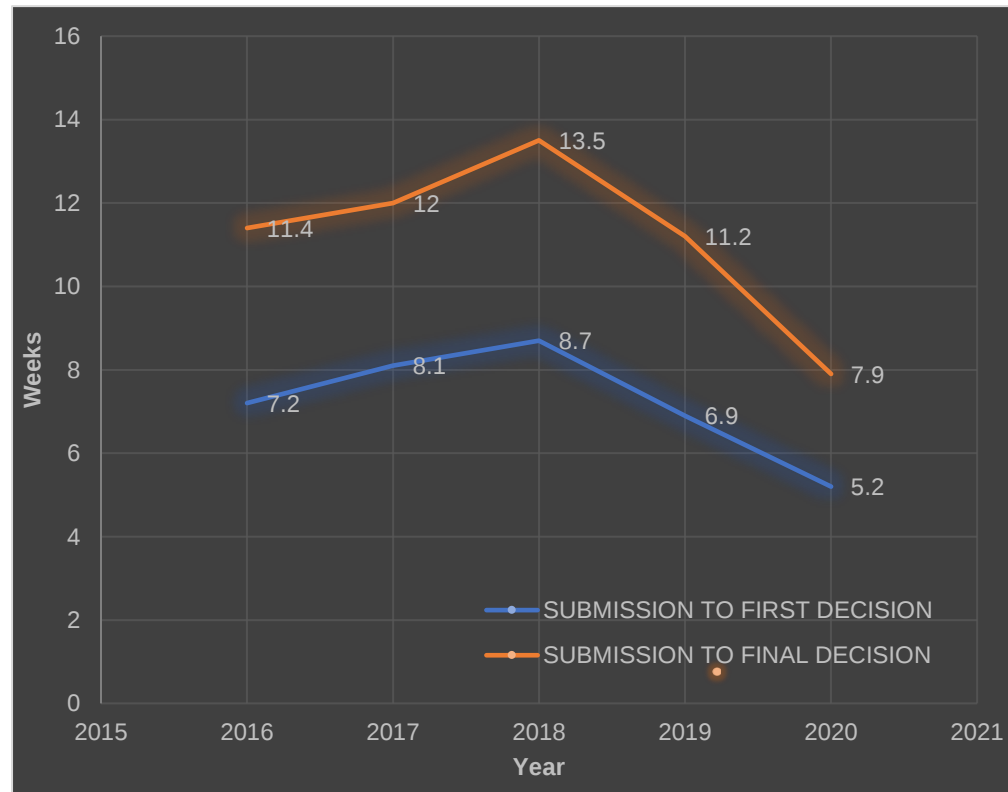
Top 10 High cited papers in Safety Science(2017-2021)



1 Bibliographic coupling cluster of 1889 papers

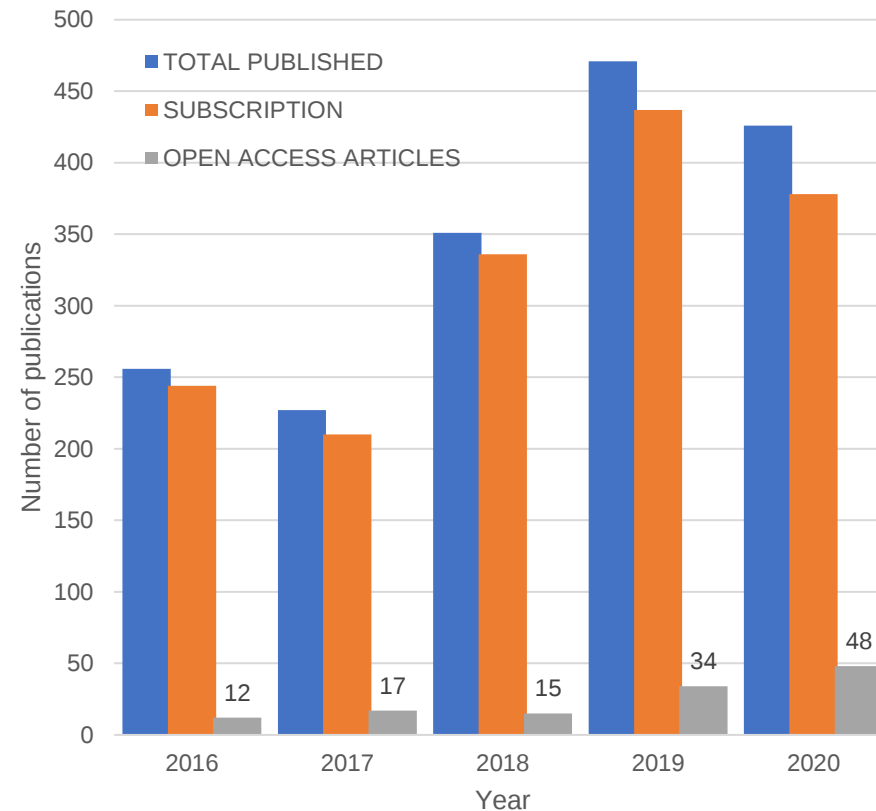
1,889 Publications		Citations						
		Sort by: Citations: highest first < 1 of 38 >					Average per year	Total
		< Back	2018	2019	2020	2021		
Total		1,145	3,154	6,118	9,048	652	2,916.14	20,413
1	A novel approach to risk assessment for occupational health and safety using Pythagorean fuzzy AHP & fuzzy inference system Ilbahar, E; Karasan, A; (-); Kahraman, C Mar 2018 SAFETY SCIENCE 103, pp.124-136	11	39	57	80	3	38	190
2	Perceptions of autonomous vehicles: Relationships with road users, risk, gender and age Hulse, LM; Xie, H and Galea, ER Feb 2018 SAFETY SCIENCE 102, pp.1-13	6	46	66	65	3	37.2	186
3	Risk evaluation using a novel hybrid method based on FMEA, extended MULTIMOORA, and AHP methods under fuzzy environment Fattahi, B and Khalilzadeh, M Feb 2018 SAFETY SCIENCE 102, pp.290-300	13	42	46	49	1	30.2	151
4	Modelling aerosol transport and virus exposure with numerical simulations in relation to SARS-CoV-2 transmission by inhalation indoors Vuorinen, V; Aarnio, M; (-); Osterberg, M Oct 2020 SAFETY SCIENCE 130	0	0	16	108	5	43	129
5	Resilience engineering: Current status of the research and future challenges Patriarca, R; Bergstrom, J; (-); Costantino, F Feb 2018 SAFETY SCIENCE 102, pp.79-100	18	23	34	45	3	24.6	123
6	An extended VIKOR method based on entropy measure for the failure modes risk assessment - A case study of the geothermal power plant (GPP) Mohsen, Q and Fereshteh, H Feb 2017 SAFETY SCIENCE 92, pp.160-172	16	25	27	39	0	18.17	109
7	A new approximation for risk assessment using the AHP and Fine Kinney methodologies Kokangul, A; Polat, U and Dagsuyu, C Jan 2017 SAFETY SCIENCE 91, pp.24-32	20	22	30	25	1	18.17	109
8	Slope stability prediction for circular mode failure using gradient boosting machine approach based on an updated database of case histories Zhou, J; Li, EM; (-); Mitri, HS Oct 2019 SAFETY SCIENCE 118, pp.505-518	0	7	44	57	0	27	108
9	A review of risk management through BIM and BIM-related technologies Zou, J; Kiviniemi, A and Jones, SW Aug 2017 SAFETY SCIENCE 97, pp.88-98	11	31	24	34	1	17.83	107
10	Bibliometric analysis of safety culture research van Nunen, K; Li, J; (-); Ponnnet, K Oct 2018 SAFETY SCIENCE 108, pp.248-258	5	22	40	35	2	20.8	104
11	D-DEMATEL: A new method to identify critical success factors in emergency management Zhou, XY; Shi, YQ; (-); Deng, Y Jan 2017 SAFETY SCIENCE 91, pp.93-104	25	15	20	23	1	17.33	104

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