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Covid-19 and Nursing: A Scientometric Mapping of Global Literature during 2020-2021

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Covid-19 and Nursing: A Scientometric Mapping of Global Literature during 2020-2021

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Abstract

The main aim of this paper is to analyze the global Covid-19 and Nursing literature to discover underlying trends and developments at the global, national, institutional, and individual level using Scientometric indicators. The publications and citations data for the study were sourced from the Web of Science database published during 2020–2021. The most productive and leading countries are: USA with 621 (43.4%) share far by China with 136(9.5%), UK with 108 (7.5%) share and Australia with 101(7.1%) share and other countries are published less than 5% of publications. India possessed 14th rank with 15 (1.0%) publications share. International collaboration has been a major driver of growth in Covid-19 and Nursing research. The paper lists most productive organizations, authors, and journals. The paper examines 1432 publications on Covid-19 and Nursing during the years 2020–2021 as listed in the Web of Science database. The top Hot and highly-cited papers in this area are also analysed.

Keywords: Covid-19, Nursing, Scientometrics, Citations, Co-Authorship

INTRODUCTION

Key Challenges Faced by Nursing Professionals During COVID-19. Infection prevention and control in primary, community, and acute care settings present healthcare and nursing professionals with huge challenges. Important practice issues remain to be resolved (CDC, 2020; National Institute for Health and Care Excellence, 2017). The key challenges to nursing professionals during the COVID-19 pandemic are discussed hereinafter. To support nurses during this challenging period, we've developed a collection of free news and evidence-based resources relevant to the COVID-19 (coronavirus) pandemic. Nurses have critical roles and responsibilities during the COVID-19 pandemic. They will continue to be at the front line of patient care in hospitals and actively involved with evaluation and monitoring in the community. Scientometric studies are useful in understanding the growth of literature, identifying strengths and weaknesses of a country, organization and an individual in various domains of

scientific endeavors. These studies will help the policy makers and science administrators to have better insights in framing science policy and guiding the researchers.

OBJECTIVES

The main objective of this study is to analyze the research performance in the field of “Covid-19 and Nursing” as reflected in the publication and citation output during 2020-2021. In particular, the study focuses on the following aspects:

- To study the share of publications of highly productive countries;
- To study the Institution-wise distribution of publications and citations;
- To study the most preferred journals for publications and Citations;
- To study most prolific author in the field of Covid-19 and Nursing;
- To study the hot and highly cited publications;

MATERIALS AND METHODS

Data were collected from Web of Science for the period 2020-2021. All the bibliographic details of publications were downloaded using the search string “Covid-19” with topic field and “Nursing” with Web of Science Subject Categories. A total of 1432 publications and 3608 citations received to these publications were transferred to Histcite, VoSviewer, Biblioshiny application and analyzed the data as per objectives of the study. The bibliographic fields were analyzed by normal count procedure for Countries, Institutions, Authorships, Journals and Highly Cited papers.

DATA ANALYSIS AND INTERPRETATIONS

The present study has covered Antimicrobial Therapy literature which is indexed by Web of Science online database. A total of 3608 citations were collected from 1432 articles from 116 journals from 4726 Authors from 1791 Organization for the period of 2 years (2020-2021). The data were analysed and presented in the form of tables and Maps to facilitate the interpretation in the following sections.

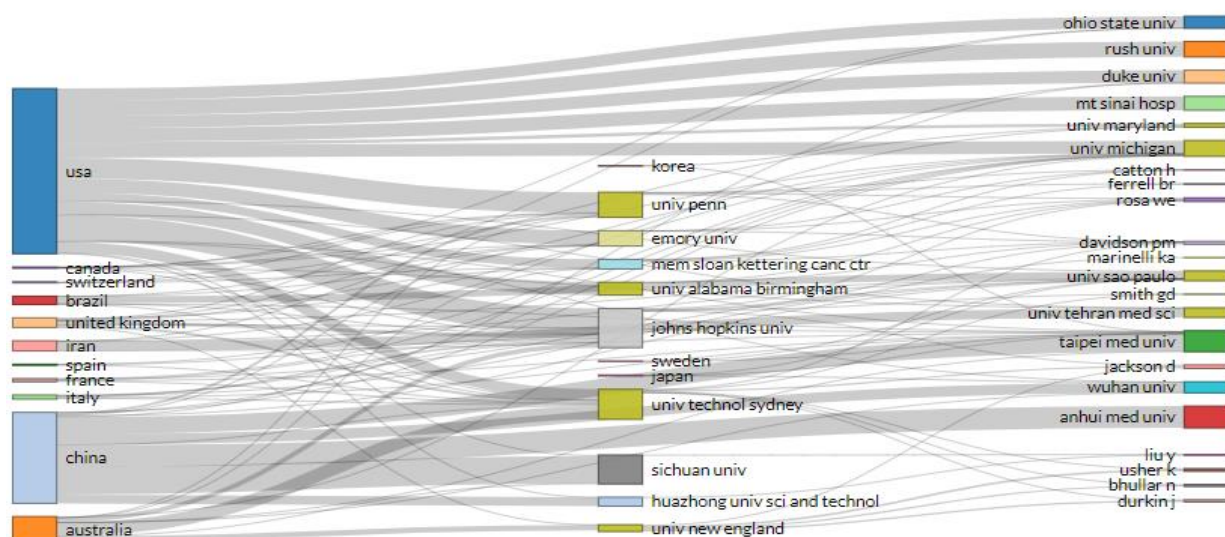
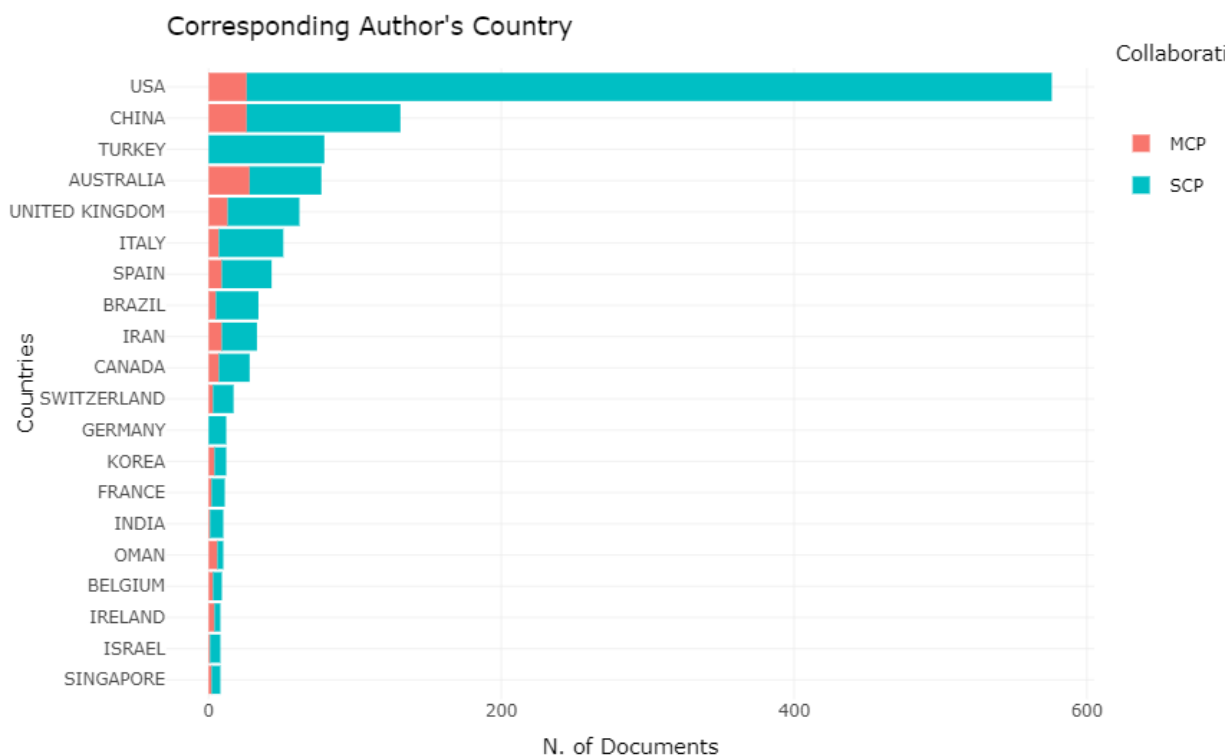
Geographical wise distribution of Publications

The data in the table 1 reveal that geographical wise distribution of publications and Citations. Of these, 5 Countries 101-621 publications each, 20 Countries 10-81 publications each, 52 Countries 1-9 publications each, 10 Countries 100-1043 Citations each, 30 Countries 11-97 Citations each, 25 Countries 1-8 Citations each, 12 Countries there is no Citations. The most productive and leading countries are: USA with 621 (43.4%) share far by China with 136(9.5%), UK with 108 (7.5%) share and Australia with 101(7.1%) share and other countries are published less than 5% of publications. India possessed 14th rank with 15 (1.0%) publications share.

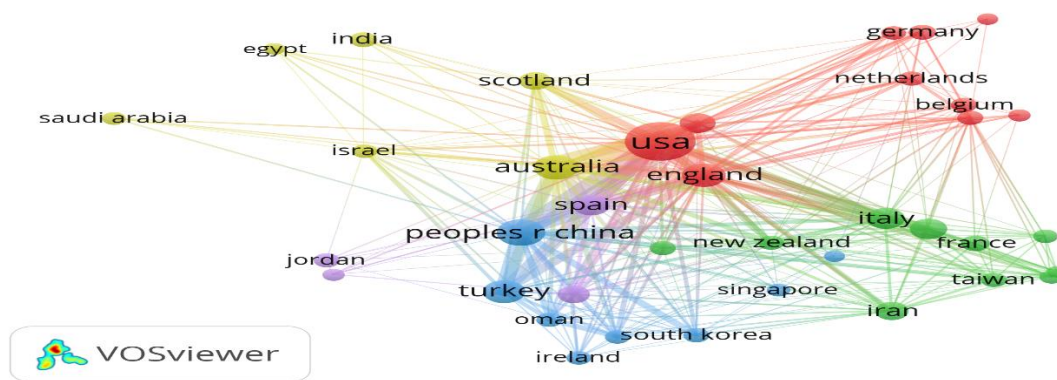
Table 1: Geographical wise distribution of Publications and Citations (76)

#	Country	Records	%	Citations	Country	Records	%	Citations
1	USA	621	43.4	1043	Malaysia	4	0.3	3
2	China	136	9.5	680	Mexico	4	0.3	30
3	UK	108	7.5	766	Norway	4	0.3	15
4	Australia	101	7.1	981	Austria	3	0.2	6
5	Turkey	81	5.7	100	Cyprus	3	0.2	0
6	Italy	58	4.1	155	Ecuador	3	0.2	0
7	Spain	48	3.4	113	Finland	3	0.2	1
8	Brazil	46	3.2	67	Qatar	3	0.2	2
9	Canada	43	3.0	121	Rwanda	3	0.2	22
10	Iran	33	2.3	71	UAE	3	0.2	2
11	Switzerland	28	2.0	102	Uganda	3	0.2	8
12	France	16	1.1	42	Albania	2	0.1	11
13	Germany	15	1.0	25	Bahrain	2	0.1	6
14	India	15	1.0	16	Botswana	2	0.1	13
15	Netherlands	13	0.9	65	Colombia	2	0.1	3
16	New Zealand	13	0.9	147	Ghana	2	0.1	3
17	South Korea	13	0.9	29	Indonesia	2	0.1	0
18	Taiwan	13	0.9	39	Kenya	2	0.1	6
19	Belgium	12	0.8	22	Lebanon	2	0.1	1
20	Jordan	11	0.8	19	Liberia	2	0.1	20
21	Sweden	11	0.8	43	Morocco	2	0.1	1
22	Thailand	11	0.8	37	Nigeria	2	0.1	4
23	Ireland	10	0.7	17	Peru	2	0.1	5
24	Japan	10	0.7	17	Algeria	1	0.1	0
25	Denmark	9	0.6	39	Argentina	1	0.1	0
26	Israel	9	0.6	62	Bahamas	1	0.1	1
27	Oman	9	0.6	97	Croatia	1	0.1	1
28	Pakistan	9	0.6	28	Cuba	1	0.1	5
29	Philippines	8	0.6	96	Ethiopia	1	0.1	0
30	Saudi Arabia	8	0.6	4	Fiji	1	0.1	0

31	Singapore	8	0.6	24	Iceland	1	0.1	11
32	Portugal	6	0.4	3	Jamaica	1	0.1	1
33	Egypt	5	0.3	5	Malta	1	0.1	0
34	Poland	5	0.3	1	Palestine	1	0.1	0
35	South Africa	5	0.3	1	Papua N Guinea	1	0.1	0
36	Bangladesh	4	0.3	11	Solomon Islands	1	0.1	0
37	Chile	4	0.3	5	Tanzania	1	0.1	6
38	Greece	4	0.3	12	Vanuatu	1	0.1	0



Three Fields plot: Countries, Organization and Authors



Citation Network of Countries

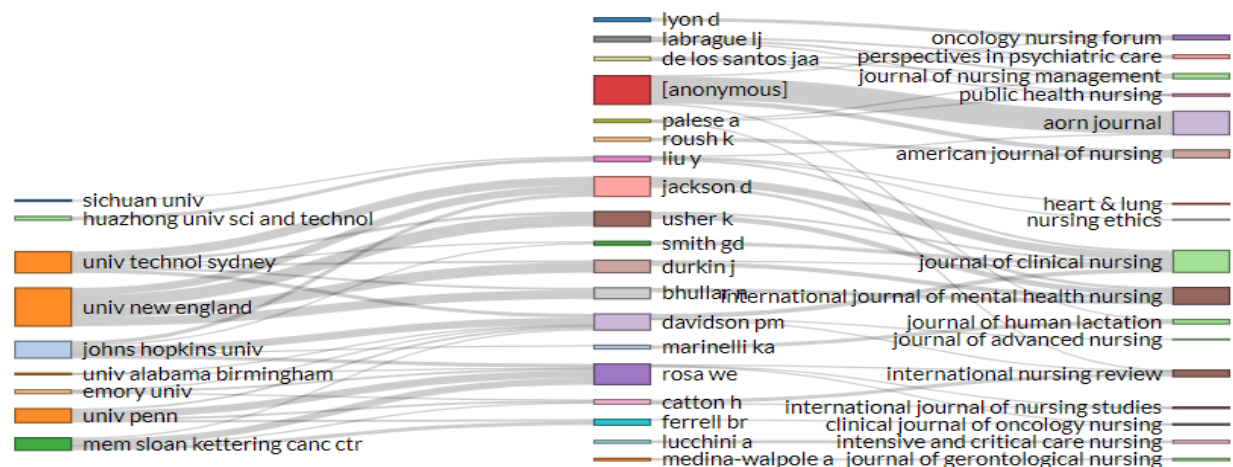
Most productive Organization

The list of most preferred Journals is shown in Table 2. Of these, 19 Organization 10-22 publications each, 19 Organization 10-22 publications each, 1771 Organization 1-9 publications each, 12 Organization 110-496 Citations each, 229 Organization 10-97 Citations each, 841 Organization there is no citations. The Most productive and leading organization are: Johns Hopkins University from USA and University Technology Sydney from Australia with 22 publications respectively followed by Emory University from USA with 19, University Penn from USA with 18 and Mem Sloan Kettering Cancer Centre from USA with 17 Publications. The most cited Organization are: University Technology Sydney with 496 Citations followed far by University New England with 264 Citations, University Birmingham with 258, Johns Hopkins University with 227 Citations.

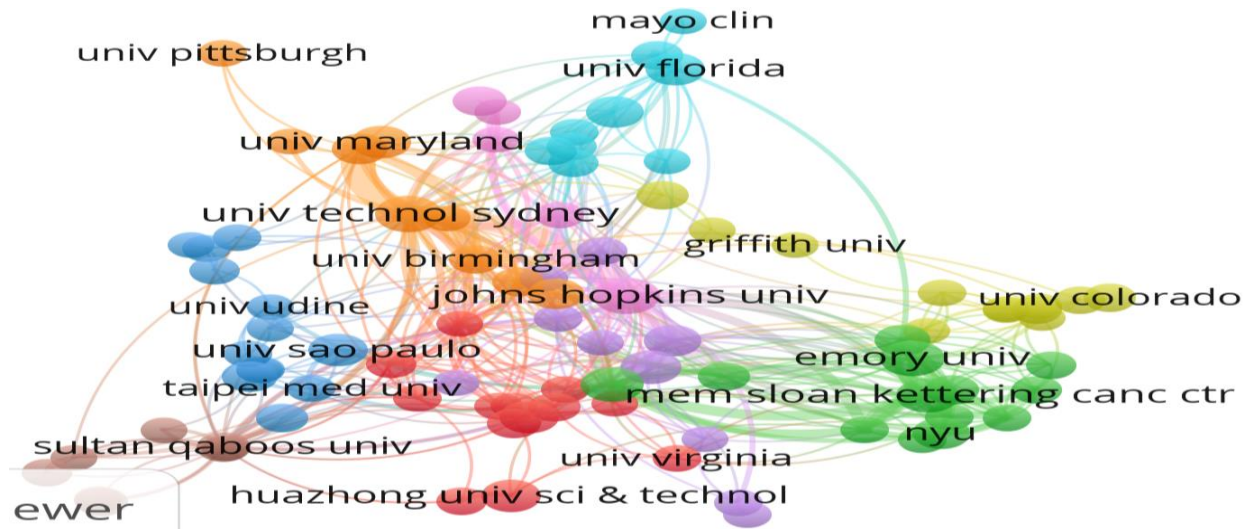
Table 2: Most productive Organization (1791)

#	Institution	Records	Citations	Institution	Records	Citations
1	Johns Hopkins Univ	22	227	Univ Technol Sydney	22	496
2	Univ Technol Sydney	22	496	Univ New England	9	264
3	Emory Univ	19	40	Univ Birmingham	7	258
4	Univ Penn	18	82	Johns Hopkins Univ	22	227
5	Mem Sloan Kettering Canc Ctr	17	16	Guangxi Med Univ	3	157
6	Sichuan Univ	14	18	Guilin Med Univ	2	147
7	Huazhong Univ Sci & Technol	13	50	Liuzhou Workers Hosp	2	147
8	Univ Florida	13	31	Caritas Inst Higher Educ	5	145
9	Univ Maryland	13	16	Birmingham City Univ	5	118
10	Univ Sao Paulo	13	17	Univ New South Wales	4	115
11	Wuhan Univ	13	22	Univ Wisconsin	8	115
12	Int Council Nurses	12	77	Auckland Univ Technol	3	110
13	NYU	11	5	Sultan Qaboos Univ	7	97

14	Ohio State Univ	11	40	Visayas State Univ	4	96
15	Kings Coll London	10	23	Univ Wollongong	8	95
16	Monash Univ	10	36	Bournemouth Univ	4	94
17	Univ Connecticut	10	59	Univ Technol	3	91
18	Univ Michigan	10	87	Univ Michigan	10	87
19	Univ Tennessee	10	11	Univ Penn	18	82
20	Duke Univ	9	19	St George Hosp	4	80
21	Harvard Med Sch	9	34	Univ Surrey	6	80
22	Univ New England	9	264	Murdoch Univ	2	78
23	Columbia Univ	8	7	Int Council Nurses	12	77
24	Univ Colorado	8	6	NIHR Appl Res Collaborat Wessex	1	77
25	Univ Iowa	8	8	Univ Southampton	1	77
26	Univ South Australia	8	14	Univ Hong Kong	7	70
27	Univ Sydney	8	30	Chinese Univ Hong Kong	6	66
28	Univ Tehran Med Sci	8	13	Univ Alabama Birmingham	7	65
29	Univ Wisconsin	8	115	Univ Connecticut	10	59
30	Univ Wollongong	8	95	Hong Kong Coll Hlth Serv Execut	1	55



Three Fields plot: Organization, Authors and Journals



Citation Network of Organizations

Most Preferred Journals

The list of most productive and influential authors is shown in Table 3. Of these, 46 Journals 10-73 publications each, 70 Journals 1-9 publications each, 6 Journals 143-796 Citations each, 55 Journals 10-99 Citations each, 42 Journals 1-9 Citations each, 19 Journals there is no Citation and top 10 Journals are core Journals in this field. Bradford Law is not applicable in this study. The most cited Journals are: JOURNAL OF CLINICAL NURSING with 796 Citations for 73 papers (Impact Factor: 1.97) followed far by JOURNAL OF NURSING MANAGEMENT (Impact Factor: 2.24) with 312 (Impact Factor: 2.24), (47 papers), INTERNATIONAL JOURNAL OF NURSING STUDIES (IF:3.78) with 273 Citations (20 papers), INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING (IF: 2.43) with 270 Citations (28 papers), HEART & LUNG (IF: 1.73) with 168 Citations (66 Papers) and NURSE EDUCATION IN PRACTICE (IF:1.61) with 143 Citations (16 papers).

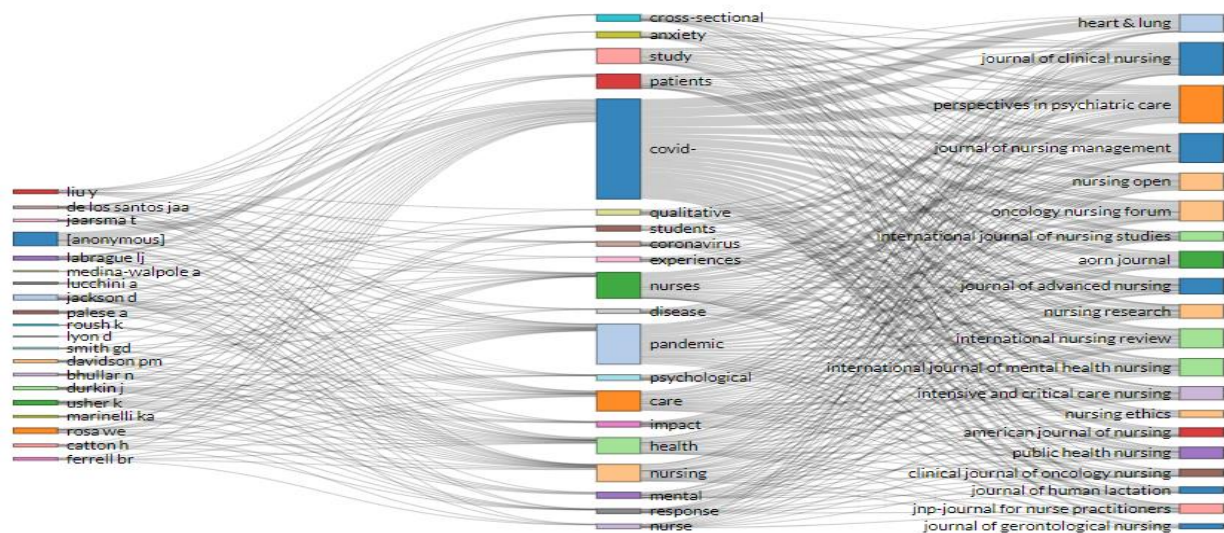
Table 3: Most Preferred Journals (116)

#	Journal	Records	Citations
1	JOURNAL OF CLINICAL NURSING	73	796
2	HEART & LUNG	66	168
3	PERSPECTIVES IN PSYCHIATRIC CARE	62	75
4	ONCOLOGY NURSING FORUM	58	3
5	JOURNAL OF NURSING MANAGEMENT	47	312
6	INTERNATIONAL NURSING REVIEW	43	93
7	AORN JOURNAL	38	0
8	JNP-JOURNAL FOR NURSE PRACTITIONERS	38	15
9	AMERICAN JOURNAL OF NURSING	37	13
10	JOURNAL OF ADVANCED NURSING	37	69
11	PUBLIC HEALTH NURSING	34	37
12	NURSING OPEN	31	32
13	INTENSIVE AND CRITICAL CARE NURSING	28	99
14	INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING	28	270
15	JOURNAL OF HUMAN LACTATION	25	77
16	NURSING RESEARCH	25	3
17	CLINICAL JOURNAL OF ONCOLOGY NURSING	20	16
18	INTERNATIONAL JOURNAL OF NURSING STUDIES	20	273
19	NURSING ETHICS	20	40
20	JOURNAL OF GERONTOLOGICAL NURSING	19	26
21	MIDWIFERY	19	39
22	NURSE EDUCATION TODAY	19	77
23	GERIATRIC NURSING	18	12
24	ISSUES IN MENTAL HEALTH NURSING	18	25
25	JOURNAL OF CONTINUING EDUCATION IN NURSING	18	11
26	JOURNAL OF NURSING ADMINISTRATION	17	4

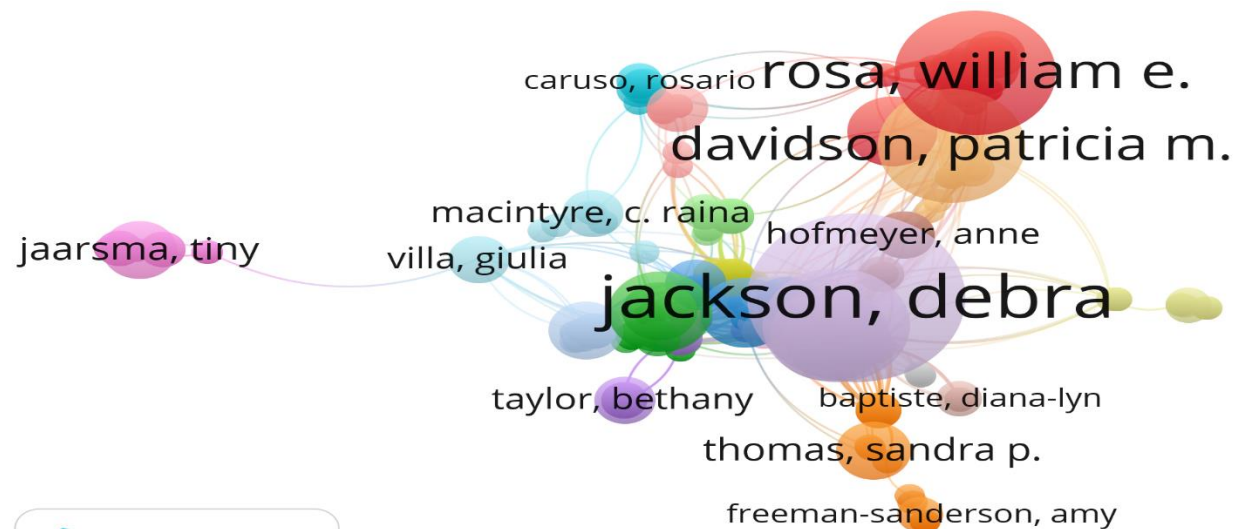
Collaborative index is 4.14. The most prolific and leading authors are: Jackson D with 14 (451 Citations and H-Index:8) followed by Rosa WE with 12 (43 Citations and H-Index:4) and Davidson PM with 10(98 Citations and H-Index: 5). The most cited authors are: Jackson D with 451 Citations followed far by Usher K with 264 (H-Index:4), Bradbury-Jones C with 243(H-Index:3), Durkin J with 227 Citations (H-Index:3) and Bhullar N with 224 Citations (H-Index: 3).

Table 4: Prolific Authors (4726)

#	Publication Impact			Citation Impact		
	Author	Records	Citations	Author	Records	Citations
1	Jackson D	14	451	Jackson D	14	451
2	Rosa WE	12	43	Usher K	9	264
3	Davidson PM	10	98	Bradbury-Jones C	4	243
4	Usher K	9	264	Durkin J	7	227
5	Liu Y	8	13	Bhullar N	5	224
6	Catton H	7	56	Isham L	1	156
7	Durkin J	7	227	Zhang LY	3	155
8	Palese A	6	8	Gyamfi N	3	154
9	Bhullar N	5	224	Deng L	2	147
10	Ferrell BR	5	11	Huang HQ	2	147
11	Jaarsma T	5	28	Lang QY	2	147
12	Labrague LJ	5	97	Liao CY	2	147
13	Lucchini A	5	48	Mo YY	2	147
14	Lyon D	5	3	Wang NN	2	147
15	Marinelli KA	5	44	Smith GD	5	145
16	Medina-Walpole A	5	1	Qin MQ	1	144
17	Roush K	5	2	Brooke J	3	118
18	Smith GD	5	145	Chughtai AA	4	112
19	Taylor R	5	15	MacIntyre CR	4	112
20	Thomas SL	5	0	Davidson PM	10	98
21	Thomas SP	5	1	Labrague LJ	5	97
22	Ulrich B	5	0	de los Santos JAA	4	96
23	Wang L	5	9	Baptiste D	3	95
24	Zhang J	5	29	Gelling L	2	87
25	Bradbury-Jones C	4	243	Neville S	2	87
26	Carr E	4	1	Morin K	1	84
27	Cestari VRF	4	10	Halcomb E	3	82
28	Chughtai AA	4	112	Fernandez R	3	79
29	Danielis M	4	5	Bridges J	1	77
30	de los Santos JAA	4	96	Maben J	1	77



Three Fields plot: Authors, Title and Journals

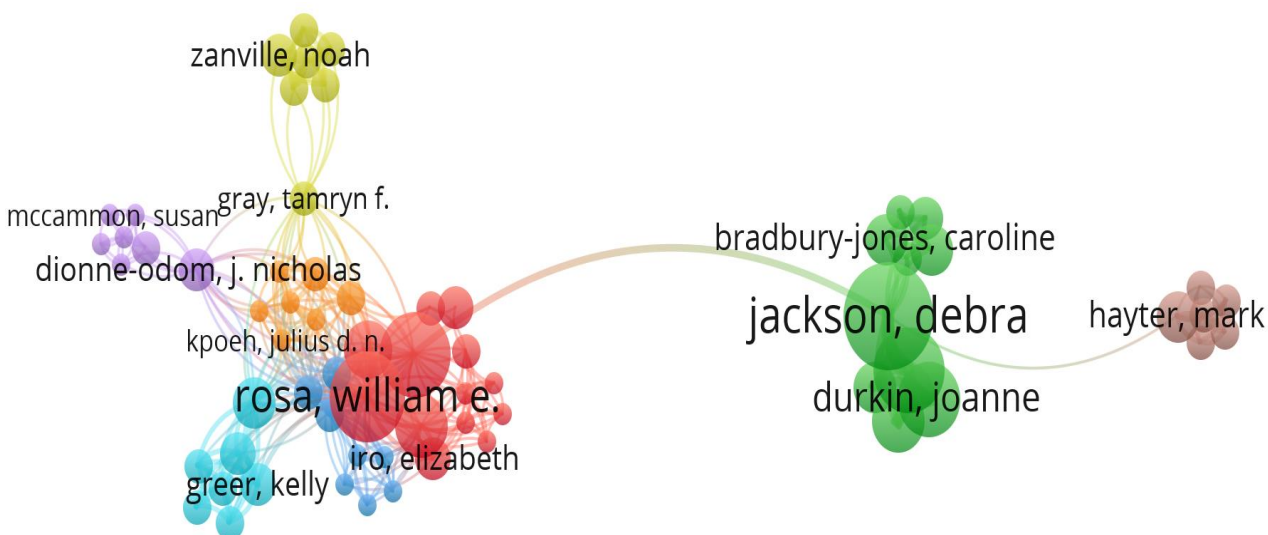


Citation Network of Authors

Co-Authorship Pattern

Co-authorship is one of the most tangible forms of research collaboration. A co-authorship network is a social network in which the authors through participation in one or more publication through an indirect path have linked to each other.

d	Author	Documents	Citations	Total link strength
	rosa, william e.	11	41	51
	jackson, debra	15	451	35
	mazanec, polly	4	14	29
	davidson, patricia m.	10	98	27
	usher, kim	10	264	25
	durkin, joanne	8	227	24
	karanja, viola	2	20	24
	khanyola, judy	2	20	24
	moreland, patricia j.	2	20	24
	bachmann, martin	1	4	23
	bein, berthold	1	4	23
	boenisch, olaf	1	4	23
	bota, marc	1	4	23
	burdelski, christoph	1	4	23
	chapple, lee-anne s.	2	15	23
	de heer, geraldine	1	4	23
	de weerth, andreas	1	4	23
	detsch, oliver	1	4	23
	fetterplace, kate	2	15	23
	frings, daniel	1	4	23

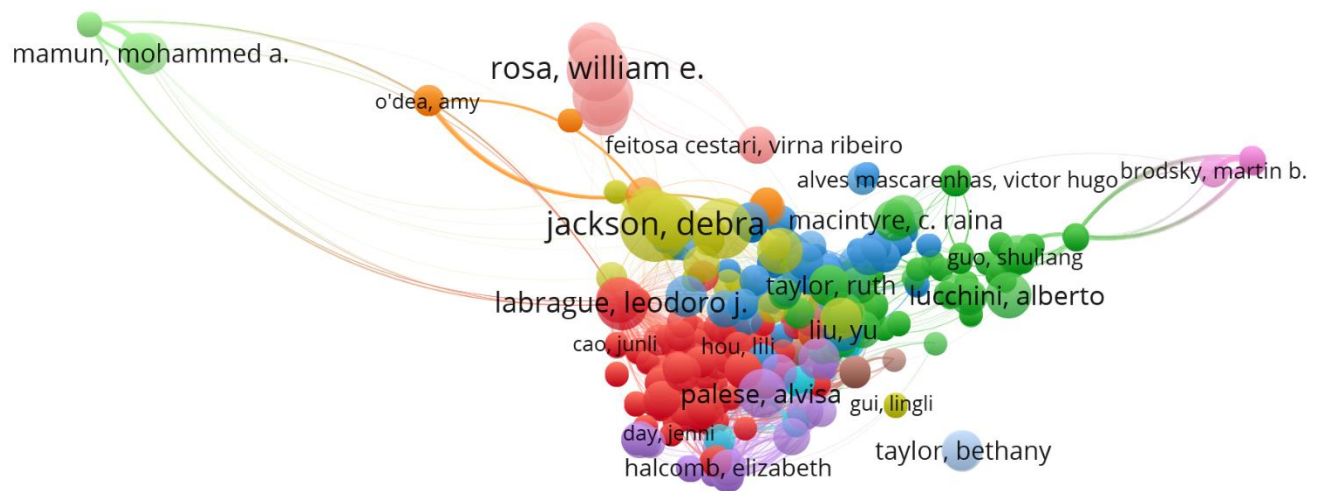


Co-Authorship Pattern

Bibliographic Coupling of Authors

Bibliographic coupling, like co-citation, is a similarity measure that uses citation analysis to establish a similarity relationship between documents. Bibliographic coupling occurs when two works reference a common third work in their bibliographies.

Author	Documents	Citations	Total link strength
labrague, leodoro j.	7	97	4182
usher, kim	10	264	3958
paterson, catherine	3	20	3891
de los santos, janet alexis a.	5	96	3686
liu, yu	4	11	3480
brodsky, martin b.	2	7	3415
vellone, ercole	3	4	3409
wang, lei	3	1	3381
alvaro, rosaria	2	4	3333
ambrosca, rossella	2	4	3333
arcadi, paola	2	4	3333
cicolini, giancarlo	2	4	3333
durante, angela	2	4	3333
pucciarelli, gianluca	2	4	3333
simeone, silvio	2	4	3333
simonetti, valentina	2	4	3333
jackson, debra	15	451	3314
palese, alvisa	6	8	3278
li, juan	2	15	3262
wang, xiao	2	15	3262



Bibliographic Coupling of Authors

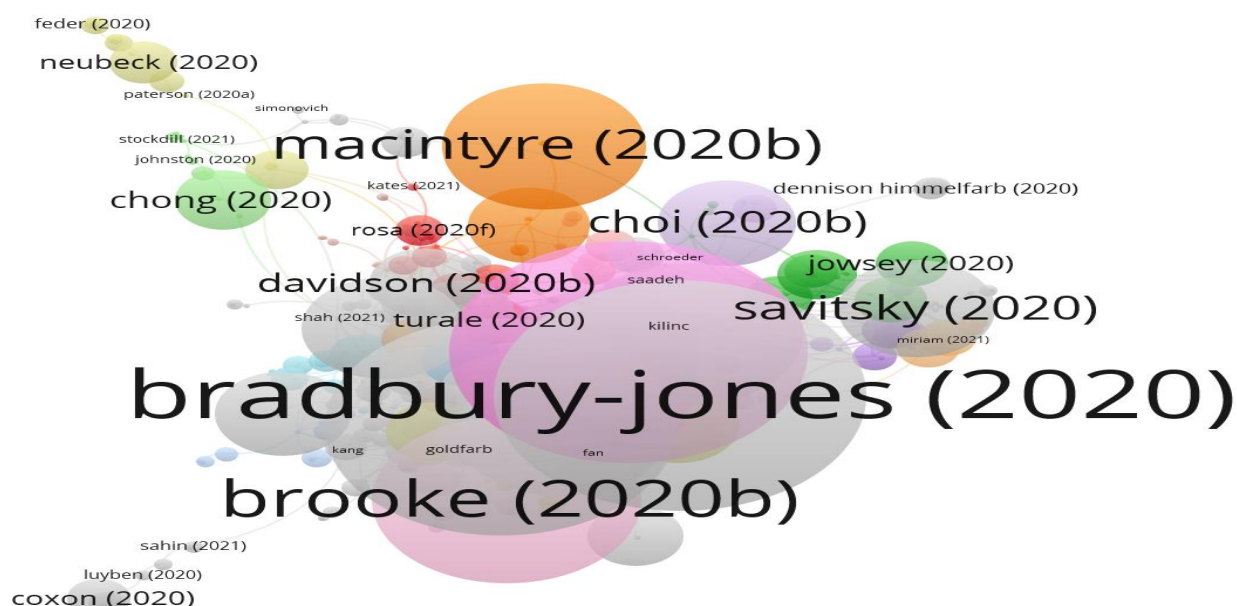
Highly Cited Papers

Table 5 ranks papers by the number of Citations. Of these, 359 papers are single author paper, 1073 papers with Multi authors, 75 papers with more than 10 authors, 4 papers 103-156 Citations each, 74 papers 10-84 Citations each, 501 papers 1-9 Citations each and 857 papers there is no Citations. The most one is “The pandemic paradox: The consequences of COVID-19 on domestic violence”, JOURNAL OF CLINICAL NURSING. 2020 JUL; 29 (13-14): 2047-2049 by Bradbury-Jones C, Isham L, with 156 Citations from England followed by Usher K, Bhullar N, Durkin J, Gyamfi N, Jackson D, Family violence and COVID-19: Increased vulnerability and reduced options for support, INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING. 2020 AUG; 29 (4): 549-552 with 148 Citations from Australia.

Table 5: Highly Cited papers

#	Date / Author / Journal	Countries	Citations
1	354 Bradbury-Jones C, Isham L, The pandemic paradox: The consequences of COVID-19 on domestic violence, JOURNAL OF CLINICAL NURSING. 2020 JUL; 29 (13-14): 2047-2049		156
2	418 Usher K, Bhullar N, Durkin J, Gyamfi N, Jackson D Family violence and COVID-19: Increased vulnerability and reduced options for support, INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING. 2020 AUG; 29 (4): 549-552		148
3	360 Mo YY, Deng L, Zhang LY, Lang QY, Liao CY, et al. Work stress among Chinese nurses to support Wuhan in fighting against COVID-19 epidemic, JOURNAL OF NURSING MANAGEMENT. 2020 JUL; 28 (5): 1002-1009		144

4	353 Brooke J, Jackson D, Older people and COVID-19: Isolation, risk and ageism, JOURNAL OF CLINICAL NURSING. 2020 JUL; 29 (13-14): 2044-2046		103
5	352 Jackson D, Bradbury-Jones C, Baptiste D, Gelling L, Morin K, et al., Life in the pandemic: Some reflections on nursing in the context of COVID-19, JOURNAL OF CLINICAL NURSING. 2020 JUL; 29 (13-14): 2041-2043		84
6	427 Maben J, Bridges J, Covid-19: Supporting nurses' psychological and mental health, JOURNAL OF CLINICAL NURSING. 2020 AUG; 29 (15-16): 2742-2750		77
7	420 MacIntyre CR, Chughtai AA, A rapid systematic review of the efficacy of face masks and respirators against coronaviruses and other respiratory transmissible viruses for the community, healthcare workers and sick patients INTERNATIONAL JOURNAL OF NURSING STUDIES. 2020 AUG; 108: Art. No. 103629		73
8	291 Usher K, Durkin J, Bhullar N, The COVID-19 pandemic and mental health impacts, INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING. 2020 JUN; 29 (3): 315-318		68
9	636 Labrague LJ, De los Santos JAA, COVID-19 anxiety among front-line nurses: Predictive role of organisational support, personal resilience and social support, JOURNAL OF NURSING MANAGEMENT. 2020 OCT; 28 (7): 1653-1661		67
10	714 Fernandez R, Lord H, Halcomb E, Moxham L, Middleton R, et al., Implications for COVID-19: A systematic review of nurses' experiences of working in acute care hospital settings during a respiratory pandemic, INTERNATIONAL JOURNAL OF NURSING STUDIES. 2020 NOV; 111: Art. No. 103637		58



Citation Network of Highly Cited Document

SUMMARY AND CONCLUSION

We conclude that Scientists, Doctors, researchers, Scholars had published 1432 papers in Covid-19 and Nursing research during 2020-2021 and registered an average citation per paper of 2.5 within couple of years. h-index as 24. India ranks 15th position among the 77 countries in Covid-19 and Nursing research. The rapid spread of COVID-19 poses a serious threat to human health and is impacting severely on public health, global communications, and economic systems worldwide. Nurses are key members of healthcare teams charged to control and prevent the spread of infectious diseases. Moreover, nurses work on the front line, providing direct care to individuals infected with COVID-19. Further effort is necessary to develop strategic recommendations and to integrate new knowledge into education. The immediate efforts to control and prevent COVID-19 and to care for those who are infected remain ongoing. Nurses are now actively involved in COVID-19 interventions, and they will remain key players in stopping the pandemic with adequate assistance. Thus, they must be provided with a healthy work environment to empower their efforts to control and manage the outbreak. Furthermore, nurses should be owed the right to reimbursement, psychological counseling, and therapeutic care if they are diagnosed with COVID-19 through contact at work.

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