

Ranking of Indian Universities in Social Sciences: A Scientometric Analysis

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Abstract

The present study aims to rank Indian universities in social sciences based on their research output during 2007-2016, citations, international collaboration and a few qualitative and quantitative indicator. Data is collected from the SCOPUS database and a new composite performance indicator, the p-index is used to measure research performance.

Keywords: Citations, India, Publications, Ranking, Social Sciences, Universities

1. Introduction

Universities and research institutions are generators of new knowledge contributing to economic and industrial growth of a nation. Scientific innovations and social research impacting society and nation at large are undertaken by universities and institutions. Ranking of universities by subject has added advantage over other rankings. University rankings use different parameters like student-faculty ratio, research output, number of foreign students and different bibliometric indicators like research articles, citations, h-index, international collaboration, etc. (Pagell, 2014).

The major international rankings are:

1. The World Universities Ranking 2018: Social Sciences by the Times Higher Education Group. It uses 13 performance indicators to judge world class universities into different areas-teaching, research, knowledge transfer and international outlook. (www.timeshighereducation.com/world-university-rankings/2018/subject-ranking/social-sciences/, 2018),
2. QS World University Rankings: It is ranking of universities by Quacquarelli Symonds. It uses six metrics to measure university performance. The six indicators used are: academic reputation, employer reputation, faculty/student ratio, citations per faculty, international faculty ratio, international student ratio (www.topuniversities.com/university-rankings/world-university-rankings/2018, 2018),
3. Centre for World University Rankings: The CWUR rankings 2017 ranks the world's major universities in subject categories. The ranking is based on number of research articles in leading journals. (www.cwur.org/methodology/subject-rankings.php, 2018), and
4. Shanghai Academic Ranking of World Universities 2017: Subject ranking of universities is done using different indicators- research productivity, research quality, extent of international collaboration. (www.shanghairanking.com/shanghairanking-subject-rankings/index.html, 2018).

There is no formal system of ranking universities/institutions in India. Ranking is done by major news channels and news weeklies. Indian universities are also evaluated by National Accreditation Assessment Council (NAAC) and National Board of Accreditation (NBA).

Several studies have ranked Indian universities and institutions using various bibliometric indicators. Gupta (2010) ranked Indian universities using bibliometric indicators from the Scopus for the period 1999-2008. The study identified various factors affecting research in Indian universities. Prathap and Gupta (2011) ranked Indian medical colleges for their research performance during 1999-2008. Gupta, Kumber and Tiwari (2014) ranked Indian universities in social sciences during 2008-2012 using quantitative and qualitative indicators. The present study attempts to rank Indian universities in social sciences using some bibliometric indicators.

2. Objective of the Study

The main objective of the study is to analyse the research performance of Indian universities in social sciences and its four subfields based on quantitative and qualitative indicators.

3. Methodology

The study gathered 10-year publication data (2007-2016) of Indian universities in social sciences from 'Scopus'. 30 Indian universities with comparatively high publication output during the ten-year period were identified. The citations received by these university papers are considered for first three years (3- year citation window) from the date of their publication, which allows the average number of citations per paper (C/P) to be computed for each of these universities. H-index for these universities for the same period (2007-2016) was obtained from Scopus. The number of international collaborative papers

was identified and the share of papers with international collaboration was determined.

There are several ranking methods, e.g. Quantitative (publications output or citations or share of international collaborative papers) or Qualitative (average citations per paper C/P or Hirsch index) or combination of both quantitative and qualitative parameters (h-index and p-index). According to Prathap (2010), the p-index also known as 'Composite Performance Index' (CPI) combines both quantity and quality and can be used for ranking institutions. It is computed using $h_m = (C^2/P)^{(1/3)}$. The present study used the subject classification of Scopus for identifying papers in social sciences and its subfields: Social Science General, 'Economics, econometrics & finance', 'Business, Management & Accounting', 'Decision sciences' and 'Psychology'.

4. Analysis

4.1 Indian Universities in 'Social Sciences' General

India published 68446 publications in social sciences during 2007-16, which constitutes 6.88% of the total Indian publication output as retrieved from Scopus database. Many institutions including institutes of national importance, research institutes, universities and colleges, government departments, etc. are actively involved in social sciences research. The top 30 universities with high publication output from 2007-2016 that were identified have published 127 to 1713 publications during the period. The top 30 universities published 11719 publications accounting for 17.12% of the total publication output of India in social sciences. The scientometric profile of the 30 universities including papers published, citations obtained, the 'Average Citations Per Paper' (ACPP), the h-index, number of 'International Collaborative Papers' (ICP) and the 'Composite Performance Index' (p) are presented in Table 1.

Table 1. Ranking of Top 30 Indian Universities in Social Sciences during 2007-16

Sl. No.	University	Papers	Citations	ACPP	h-index	ICP	ICP Percentage	CPI (p)
1.	Jawaharlal Nehru University, New Delhi	1713	4913	2.87	28	210	12.26	24.15
2.	University of Delhi	1698	5930	3.49	28	265	15.61	27.46
3.	Anna University, Chennai	914	2932	3.21	23	59	6.46	21.11
4.	Jadavpur University	787	4922	6.25	33	124	15.76	31.34
5.	University of Calcutta	549	2571	4.68	25	69	12.57	22.92
6.	Panjab University, Chandigarh	469	1703	3.63	19	45	9.59	18.35
7.	Aligarh Muslim University	431	2436	5.65	23	79	18.33	23.97
8.	Jamia Millia Islamia University, New Delhi	427	2056	4.81	18	55	12.88	21.47
9.	Banaras Hindu University, Varanasi	423	2189	5.17	23	60	14.18	22.46
10.	University of Hyderabad	402	1514	3.77	15	63	15.67	17.87
11.	Pondicherry University	268	827	3.09	12	41	15.30	13.67
12.	Punjabi University, Patiala	251	1118	4.45	18	19	7.57	17.08
13.	Guru Nanak Dev University, Amritsar	238	865	3.63	15	8	3.36	14.65
14.	Manipal University, Karnataka	233	785	3.37	14	46	19.74	13.83
15.	University of Mumbai	228	551	2.42	10	34	14.91	11.00
16.	Cochin University of Science & Technology	228	1370	6.01	19	26	11.40	20.19
17.	Indira Gandhi National Open University (IGNOU), New Delhi	209	697	3.33	11	31	14.83	13.25
18.	University of Allahabad	207	1280	6.18	17	43	20.77	19.93
19.	Visva-Bharati University	198	801	4.05	14	53	26.77	14.80
20.	Andhra University	196	555	2.83	12	23	11.73	11.63
21.	Annamalai University	192	601	3.13	13	21	10.94	12.34
22.	Vidyasagar University, W.Bengal	187	1224	6.55	16	23	12.30	20.01
23.	University of Burdwan	186	443	2.38	11	19	10.22	10.18
24.	University of Mysore	179	456	2.55	10	24	13.41	10.51
25.	University of Pune	175	637	3.64	12	41	23.43	13.24
26.	Osmania University	158	310	1.96	8	27	17.09	8.47

27.	University of Kashmir	153	295	1.93	8	10	6.54	8.29
28.	University of Lucknow	151	492	3.26	11	14	9.27	11.70
29.	University of Jammu	142	414	2.92	10	24	16.90	10.65
30.	Kurukshetra University	127	442	3.48	10	14	11.02	11.54
		11719	45329	3.82	16.2	1362	11.62	16.60

ACPP – Average Citation Per Paper; ICP – International Collaborative Papers; CPI – Composite Performance Index

The average output of these 30 universities is 390 papers. Ten universities have published above the average output. Among these 10 universities, the largest number of papers (1713) is published by Jawaharlal Nehru University, New Delhi, followed by University of Delhi (1698 papers), Anna University (914 papers), Jadavpur University (787 papers), University of Calcutta (549 papers), etc.

The 11719 papers contributed by these 30 universities have received 45329 citations during 2007-16, with an ACPP of 3.82. Among the universities with a higher (than average) ACPP, and Vidyasagar University (6.55) stands first followed by Jadavpur University (6.25).

These 30 universities have together contributed 1362 ICP, accounting for 11.62 percent share of the total. The largest share of international collaborative publications is recorded by Visva-Bharti University (26.77 percent), followed by University of Pune (23.43 percent).

The average h-index recorded by these 30 universities is 16.2, with 12 universities having an above average in h-index. Jadavpur University is at the top with an h-index of 33, followed by Jawaharlal Nehru University and University of Delhi (28). Table 2 presents ranking of Indian universities in social sciences by different indices.

Table 2. Ranking of top 30 Indian Universities in Social Sciences using different parameters, 2007-16

Ranking of Indian Universities using Various Indices				
Sl. No.	Composite Performance Index (p)	Average Citation Index (C/P)	h-index	International Collaborative Papers (% age ICP)
1.	Jadavpur University (31.34)	Vidyasagar University (6.55)	Jadavpur University (33)	Visva-Bharti University (26.77)
2.	University of Delhi (27.46)	Jadavpur University (6.25)	Jawahar Lal Nehru University (28)	University of Pune (23.43)
3.	Jawaharlal Nehru University (24.15)	University of Allahabad (6.18)	University of Delhi (28)	University of Allahabad (20.77)
4.	Aligarh Muslim University (23.97)	Cochin University of Science & Technology (6.01)	University of Calcutta (25)	Manipal University (19.74)
5.	University of Calcutta (22.92)	Aligarh Muslim University (5.65)	Anna University (23)	Aligarh Muslim University (18.33)
6.	Banaras Hindu University (22.46)	Banaras Hindu University (5.17)	Aligarh Muslim University (23)	Osmania University (17.09)
7.	Jamia Millia Islamia University (21.47)	Jamia Millia Islamia University (4.81)	Banaras Hindu University (23)	University of Jammu (16.90)
8.	Anna University (21.11)	University of Calcutta (4.68)	Panjab University (19)	Jadavpur University (15.76)
9.	Cochin University of Science & Technology (20.19)	Punjabi University Patiala (4.45)	Cochin University of Science & Technology (29)	University of Hyderabad (15.67)
10.	Vidyasagar University (20.01)	Visva-Bharti University (4.05)	Jamia Millia Islamia University (18)	University of Delhi (15.61)

11.	University of Allahabad (19.93)	University of Hyderabad (3.77)	Punjabi University Patiala (18)	Pondicherry University (15.30)
12.	Panjab University (18.35)	University of Pune (3.64)	University of Allahabad (17)	University of Mumbai (14.91)
13.	University of Hyderabad (17.87)	Panjab University (3.63)	Vidyasagar University (16)	Indira Gandhi National Open University (IGNOU), New Delhi (14.83)
14.	Punjabi University Patiala (17.08)	Guru Nanak Dev University, Amritsar (3.63)	University of Hyderabad (15)	Banaras Hindu University (14.18)
15.	Visva-Bharti University (14.80)	University of Delhi (3.49)	Guru Nanak Dev University, Amritsar (15)	University of Mysore(13.41)
16.	Guru Nanak Dev University, Amritsar (14.65)	Kurukshetra University (3.48)	Manipal University (14)	Jamia Millia Islamia University (12.88)
17.	Manipal University (13.83)	Manipal University (3.37)	Visva-Bharti University (14)	University of Calcutta (12.57)
18.	Pondicherry University (13.67)	Indira Gandhi National Open University (IGNOU), New Delhi (3.33)	Annamalai University (13)	Vidyasagar University (12.30)
19.	Indira Gandhi National Open University (IGNOU), New Delhi (13.25)	University of Lucknow (3.26)	Pondicherry University (12)	Jawahar Lal Nehru University (12.26)
20.	University of Pune (13.24)	Anna University (3.21)	Andhra University (12)	Andhra University (11.73)
21.	Annamalai University (12.34)	Annamalai University (3.13)	University of Pune (12)	Cochin University of Science & Technology (11.40)
22.	University of Lucknow (11.70)	Pondicherry University (3.09)	Indira Gandhi National Open University (IGNOU), New Delhi (11)	Kurukshetra University (11.02)
23.	Andhra University (11.63)	University of Jammu (2.92)	University of Burdwan (11)	Annamalai University (10.94)
24.	Kurukshetra University (11.54)	JawaharLal Nehru University (2.87)	University of Lucknow (11)	University of Burdwan (10.22)
25.	University of Mumbai (11.00)	Andhra University (2.83)	University of Mumbai (10)	Panjab University (9.59)
26.	University of Jammu (10.65)	University of Mysore (2.55)	University of Mysore (10)	University of Lucknow (9.27)
27.	University of Mysore (10.51)	University of Mumbai (2.42)	University of Jammu (10)	Punjabi University Patiala (7.57)
28.	University of Burdwan (10.18)	University of Burdwan (2.38)	Kurukshetra University (10)	University of Kashmir (6.54)
29.	Osmania University (8.47)	Osmania University (1.96)	Osmania University (8)	Anna University (6.46)
30.	University of Kashmir (8.29)	University of Kashmir (1.93)	University of Kashmir (8)	Guru Nanak Dev University, Amritsar (3.36)

In terms of CPI (p), Jadavpur University tops the list with composite index value of 31.34, followed by University of Delhi (27.46), Jawahar Lal Nehru University (24.15), Aligarh Muslim University (23.97), etc.

Ranking of Indian universities in terms of CPI as compared to research output has shown significant results. Jadavpur University, Aligarh Muslim University, University of Allahabad has improved their ranking. Universities like Jawaharlal Nehru University, Anna University and Panjab University are left behind in ranking. There is not much change in the rankings of University of Delhi, University of Calcutta, Jamia Millia Islamia University.

4.2 Business, Management and Accounting

India contributed 20153 papers in business, management and accounting during 2007-16. The top 28 Indian universities in business, management and accounting

have contributed 2600 papers, accounting for 12.9 percent of total Indian output in this field. The scientometric profile of the top 28 universities in business, management and accounting is presented in Table 3.

On ranking Indian universities by publication output, Anna university tops with 407 papers, followed by University of Delhi (341 papers). Jamia Millia Islamia University tops among Indian universities with ACPP of 14.38, followed by Punjabi University Patiala (9.99). In terms of h-index, Jadavpur University tops the list with a h-index of 17, followed by Aligarh Muslim University and Jamia Millia Islamia (h-index of 16). In terms of share of ICP (ICP), University of Pune tops the list with international collaborative share of 24.24 percent, followed by University of Hyderabad (22.50 percent). Jamia Millia Islamia University tops the list in CPI ranking with 26.00, followed by Jadavpur University (20.11).

Table 3. Performance of top 28 Indian universities in Business, Management and Accounting during 2007-17

Sl. No.	University	Papers	Citations	ACPP	h-index	ICP	ICP%	CPI (p)
1.	Anna University, Chennai	407	1123	2.76	14	15	3.69	14.58
2.	University of Delhi	341	1134	3.33	15	63	18.48	15.57
3.	Jadavpur University	218	1332	6.11	17	20	9.17	20.11
4.	Jawaharlal Nehru University	173	418	2.42	10	38	21.96	10.03
5.	Aligarh Muslim University	103	839	8.15	16	13	12.62	18.98
6.	University of Calcutta	99	586	5.92	11	13	13.13	15.14
7.	Pondicherry University	88	162	1.84	7	10	11.36	6.68
8.	Jamia Millia Islamia University	85	1222	14.38	16	6	7.06	26.00
9.	G.N.D.U. Amritsar	79	281	3.56	9	3	3.80	10.00
10.	University of Jammu	75	247	3.29	9	13	17.33	9.33
11.	G.G.S. Indraprastha University	74	348	4.70	12	10	13.51	11.78
12.	Panjab University	74	251	3.39	10	9	12.16	9.48
13.	Punjabi University Patiala	72	719	9.99	14	2	2.78	19.29
14.	Annamalai University	72	230	3.19	9	6	8.33	9.02
15.	University of Mumbai	69	216	3.13	7	7	10.14	8.78
16.	University of Burdwan	61	174	2.85	5	8	13.11	7.92
17.	Andhra University	59	125	2.12	5	7	11.86	6.42

18.	Cochin University of Science & Technology	58	383	6.60	13	8	13.79	13.62
19.	Kurukshetra University	54	232	4.30	7	6	11.11	9.99
20.	Banaras Hindu University	50	202	4.04	6	5	10.00	9.34
21.	University of Mysore	46	62	1.35	6	6	13.04	4.37
22.	University of Hyderabad	40	224	5.60	8	9	22.50	10.78
23.	Indira Gandhi National Open University (IGNOU), New Delhi	36	294	8.17	5	6	16.67	13.39
24.	Osmania University	35	96	2.74	5	7	20.00	6.41
25.	Visva-Bharati University	34	22	0.65	2	3	8.82	2.42
26.	Vidyasagar University	34	142	4.18	7	5	14.71	8.40
27.	University of Pune	33	125	3.79	7	8	24.24	7.79
28.	University of Lucknow	31	72	2.32	5	2	6.45	5.51
		2600	11261	4.33	9.18	270	10.38	11.11

ACPP – Average Citation Per Paper; ICP – International Collaborative Papers; CPI – Composite Performance Index

4.3 Economics, Econometrics and Finance

India contributed 13514 papers in economics, econometrics and finance during 2007-16. The top 26 Indian universities have contributed 2461 papers accounting for 18.21 % of total. The scientometric data of top 26 Indian universities in economics, econometrics and finance is presented in Table 4.

On ranking Indian universities by publication output, Jawaharlal Nehru University tops the list with 729 papers, followed by University of Delhi (466 papers). University

of Allahabad tops the list with ACPP of 17.57, followed by Vidyasagar University (9.96). In terms of h-index, Jawaharlal Nehru University tops the list with h-index value of 22, followed by University of Delhi (16).

In terms of share of ICP, Visva-Bharati University tops the list with international collaborative share of 29.27 percent, followed by Vidyasagar University (26.09 percent). University of Allahabad tops the list in CPI ranking with 19.22, followed by Jawaharlal Nehru University (17.90).

Table 4. Performance of top 26 Indian Universities in Economics, Econometrics and Finance during 2007-16

Sl. No.	University	Papers	Citations	ACPP	h-index	ICP	ICP%	CPI (p)
1.	Jawaharlal Nehru University	729	2045	2.81	22	92	12.62	17.90
2.	University of Delhi	466	1601	3.44	16	96	20.60	17.65
3.	Jadavpur University	152	655	4.31	13	28	18.42	14.13
4.	University of Calcutta	136	701	5.15	15	22	16.18	15.34
5.	University of Hyderabad	95	245	2.58	9	12	12.63	8.58
6.	Anna University	81	74	0.91	5	5	6.17	4.07
7.	Panjab University	69	115	1.67	5	5	7.25	5.77
8.	Jamia Millia Islamia	69	149	2.16	5	2	2.90	6.85
9.	Pondicherry University	67	191	2.85	7	4	5.97	8.17
10.	University of Mumbai	64	67	1.05	5	8	12.50	4.12

11.	University of Burdwan	64	77	1.20	5	8	12.50	4.52
12.	Guru Nanak Dev University	55	173	3.15	7	3	5.45	8.16
13.	Banaras Hindu University	46	275	5.98	8	5	10.87	11.80
14.	Visva-Bharati University	41	148	3.61	7	12	29.27	8.11
15.	Punjabi University Patiala	36	71	1.97	5	4	11.11	5.19
16.	Indira Gandhi National Open University (IGNOU)	35	56	1.60	4	4	11.43	4.47
17.	Gauhati University, Guwahati	34	49	1.44	3	2	5.88	4.13
18.	University of Pune	32	134	4.19	5	7	21.88	8.25
19.	Aligarh Muslim University	29	29	1.00	3	5	17.24	3.07
20.	North eastern Hill University, Shillong	27	31	1.15	3	3	11.11	3.29
21.	Vidyasagar University	23	229	9.96	8	6	26.09	13.16
22.	University of Allahabad	23	404	17.57	8	4	17.39	19.22
23.	Manipal University, Karnataka	23	36	1.57	3	3	13.04	3.83
24.	Kurukshetra University	23	16	0.70	2	4	17.39	2.23
25.	University of Lucknow	21	99	4.71	4	1	4.76	7.76
26.	Goa University	21	27	1.29	3	0	0.00	3.26
		2461	7697	3.13	6.92	345	14.02	8.20

ACPP – Average Citation Per Paper; ICP – International Collaborative Papers; CPI – Composite Performance Index

4.4 Decision Sciences

India has contributed 9620 papers in decision sciences during 2007-16. The top 25 Indian Universities in decision sciences have contributed 1794 papers, which accounts for 18.65 percent share of all Indian papers in this area. The summary of the scientometric data about the top 25 Indian universities in decision science is presented in Table 5.

On ranking by publication output, University of Delhi tops the list with 239 papers, followed by Jadavpur

University (226 papers). Jamia Millia Islamia University tops the list in ACPP (ACPP) with 11.62, followed by Jadavpur University (11.46). In terms of h-index, Jadavpur University tops the list with h-index value of 28, followed by Anna University (17). Visva-Bharati University tops the list in the share of ICP with international collaborative share of 49.18 percent followed by Manipal University (36.84 percent). Jadavpur University tops the list in composite performance ranking (p) with 30.97 followed by Vidyasagar University (19.58).

Table 5. Performance of top 25 Indian universities in Decision Sciences during 2007-16

Sl. No.	University	Papers	Citations	ACPP	h-index	ICP	ICP %	Composite performance index (p)
1.	University of Delhi	239	1262	5.28	16	32	13.39	18.82
2.	Jadavpur University	226	2591	11.46	28	36	15.93	30.97
3.	Anna University	180	990	5.50	17	18	10.00	17.59
4.	University of Calcutta	150	991	6.61	15	18	12.00	18.71
5.	Cochin University of Science & Technology	109	561	5.15	14	11	10.09	14.24

6.	Aligarh Muslim University	101	739	7.32	16	37	36.63	17.55
7.	Vidyasagar University	80	775	9.69	14	7	8.75	19.58
8.	University of Hyderabad	73	594	8.14	11	21	28.77	16.91
9.	Visva-Bharati University	61	366	6.00	9	30	49.18	13.00
10.	Banaras Hindu University	60	284	4.73	8	13	21.67	11.04
11.	Andhra University	54	151	2.80	7	4	7.41	7.50
12.	Panjab University	49	173	3.53	6	4	8.16	8.48
13.	G.G.S. Indraprastha University	44	182	4.14	8	4	9.09	9.10
14.	Pondicherry University	40	256	6.40	7	8	20.00	11.79
15.	Annamalai University	39	146	3.74	7	3	7.69	8.18
16.	Gujarat University	35	290	8.29	8	5	14.29	13.39
17.	Jawaharlal Nehru University	35	99	2.83	6	4	11.43	6.54
18.	University of Pune	32	122	3.81	5	6	18.75	7.75
19.	GNDU, Amritsar	29	176	6.07	7	3	10.34	10.22
20.	University of Kashmir	29	45	1.55	3	3	10.34	4.12
21.	JamiaMilliaIslamia University	29	337	11.62	10	4	13.79	15.76
22.	University of Kerala	28	45	1.61	4	4	14.29	4.17
23.	University of Burdwan	27	83	3.07	5	8	29.63	6.34
24.	Punjabi University Patiala	26	91	3.50	4	0	0.00	6.83
25.	Manipal University Karnataka	19	26	1.37	3	7	36.84	3.29
		1794	11375	6.34	9.52	290	16.16	12.07

ACPP – Average Citation Per Paper; ICP – International Collaborative Papers; CPI – Composite Performance Index

4.5 Psychology

India contributed 3820 papers in psychology during 2007-16. The top 23 Indian Universities in psychology have contributed 651 papers, which accounts for 17.04% of all Indian papers in this area. The scientometric data about the top 23 Indian universities in psychology is presented in Table 6.

On ranking by publication output, University of Delhi tops the list with 108 papers, followed by University of Allahabad (94 papers). Aligarh Muslim University tops

the list among Indian Universities with ACPP of 32.76, followed by Jamia Millia Islamia University (12.32). In terms of h-index, University of Allahabad tops the list with h-index value of 14, followed by University of Delhi (11). Gujarat University has a very high degree of international collaboration as every paper has a foreign collaborator, followed by Karnatak University (93.55 percent). Aligarh Muslim University tops the list in CPI ranking with CPI of 26.33, followed by University of Allahabad (15.97).

Table 6. Performance of top 23 Indian universities in Psychology during 2007-16

Sl. No.	University	No. of Papers	No. of Citations	ACPP	h-index	ICP	ICP %	CPI (p)
1.	University of Delhi	108	466	4.31	11	26	24.07	12.62
2.	University of Allahabad	94	619	6.59	14	26	27.66	15.97
3.	Banaras Hindu University	63	441	7.00	10	11	17.46	14.56
4.	University of Calcutta	38	134	3.53	4	5	13.16	7.79

5.	University of Hyderabad	36	92	2.56	5	13	36.11	6.17
6.	Karnatak University, Dharwad	31	198	6.39	7	29	93.55	10.81
7.	University of Mysore	28	111	3.96	6	8	28.57	7.61
8.	Jawaharlal Nehru University	26	49	1.88	4	5	19.23	4.52
9.	Pondicherry University	25	32	1.28	3	13	52.00	3.45
10.	Manipal University, Karnataka	25	78	3.12	5	2	8.00	6.24
11.	Maharishi Dayanand University, Rohtak	22	46	2.09	4	0	0.00	4.58
12.	Jamia Millia Islamia	19	234	12.32	3	2	10.53	14.23
13.	Aligarh Muslim University	17	557	32.76	6	6	35.29	26.33
14.	University of Lucknow	15	81	5.40	7	1	6.67	7.59
15.	Himachal Pradesh University	15	24	1.60	3	2	13.33	3.37
16.	Punjabi University Patiala	13	67	5.15	4	2	15.38	7.02
17.	G.G.S. Indraprastha University	12	57	4.75	5	0	0.00	6.47
18.	Panjab University	12	11	0.92	2	3	25.00	2.16
19.	University of Mumbai	12	116	9.67	5	7	58.33	10.39
20.	Gujarat University	11	71	6.45	6	11	100.00	7.71
21.	Jadavpur University	10	65	6.50	3	3	30.00	7.50
22.	University of Kerala	10	65	6.50	3	1	10.00	7.50
23.	Osmania University	9	44	4.89	4	4	44.44	5.99
		651	3658	5.62	5.39	180	27.65	8.72

ACPP – Average Citation Per Paper; ICP – International Collaborative Papers; CPI – Composite Performance Index

5. Conclusions and Suggestions

The above study has used a new composite performance indicator, the p-index for ranking the research performance of Indian Universities in the social sciences. It is clear that the rankings do change based on the parameter used. However, the study has been able to identify some top universities and this should help funding agencies in identifying areas and institutions for support.

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