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CITATION ANALYSIS OF GEOCHEMISTRY PUBLICATIONS

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ABSTRACT

This paper discusses about the Geochemistry publications and its citation obtainable in the Scimago Journal and Country Rank data base by the authors from top 15 countries (based on publications only). The relevant data are collected from Scimago Journal and Country Rank data base and it was analyzed. It shows among the Geochemistry publications totally 265353 articles were published which are indexed in Scimago database. Among the publications, maximum of 78831(29.71%) articles published by United States and followed by China with 30631(11.55%) publications during the study period.

Keywords: Geochemistry, Scimago Journal and Country Rank, Citations, Citable Documents, Self Citations, H- Index.

INTRODUCTION

The true barometer of assessing the quality and quantity of a journal is the Citation Index. While talking about citation, one needs to understand the citation. Simply, when another refers other works in his/her article, we call the article referred is cited. In other words the citation is called as the previous work which is referred in the present work. The quality of a given work can rightly be adjudged through the number of citations

that it gets. Therefore, a certain piece of article or research paper is carrying more number of citations get more impact than the work carrying less citation. Therefore, we always refer to some indexing and abstracting databases like Scopus, Web of Science, or even Google Scholars to know the impact of a journal, a particular article or a particular author. Scimago Journal and Country Rank database developed by Scimago Lab and powered by Scopus.

Nicholas and Ritchie (1978) [1] view that, "study of bibliometrics concept provides information, knowledge and how is communicated". Moreover, it bibliometric studies are normally employed to evaluate the academic research output, the quality of the journal, impact and influence of articles, authors, and assorted parameters. Though there has been substantial growth of literature on bibliometric studies during the last decade, the authors focus on some of the pertinent literature that relate to the present study. Potter (1981) [2] defines bibliometric analysis as "the calculation and study of the research publication patterns of all types of written communication and their authorship nature". In a most interesting study Mooghali ,et al.(2011) [3] analyzed records of three premiere indexes known as , "SSCI", "SCI", and "AHCI", and it

is projected in the field of "scientometrics" evolved between 1980 to 2009. The pattern of growth of literature in the field of Nanoscience during 1990 to 2009 was reported by Karpagam et al. (2011) [4] .In the similar vein, Abramo [5] exercised bibliometric (2011)techniques on some national level research Lapon-Kandeishein assessment. Prebor (2011) [6] bibliographical research on Hebrew printing also needs mention. In the similar light bibliometric studies by veterans like Krampen, Eye and Schui (2011) [7], Kumar Suchetan(2012) [8] and others also presented findings on different Dhanavandan directions. and Tamizhchelvan (2014) [9] studied citations and research productivity of south Tamil Nadu universities from 2009 to 2013 based on Indian Citation Index (ICI).

RESULTS AND DISCUSSIONS

This study aims to discuss about the Geochemistry publications and its citation available in the Scimago Journal and Country Rank data base [10] by the top 15 countries (based on publications). The relevant data are collected from Scimago Journal and Country Rank

database. Based on the available sources, the following discussions are made. The distributions of the Geochemistry publications by the top 15 countries that is available in Scimago Journal and Country Rank data base which were analyzed in the table 1.

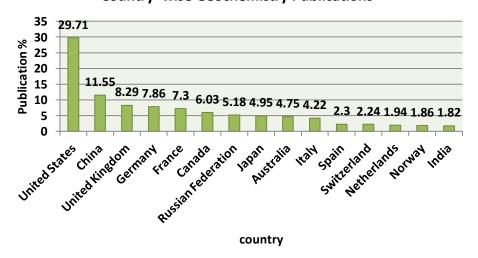
COUNTRY-WISE GEOCHEMISTRY PUBLICATIONS (TOP15 COUNTRIES):

Table 1: Country- wise Geochemistry Publications (Top15 Countries)

S.NO	Country	Geochemistry Publication	%
1	United States	78831	29.71
2	China	30631	11.55
3	United Kingdom	22002	8.29
4	Germany	20862	7.86
5	France	19375	7.30
6	Canada	16014	6.03
7	Russian Federation	13744	5.18
8	Japan	13142	4.95
9	Australia	12612	4.75
10	Italy	11183	4.22
11	Spain	6088	2.30
12	Switzerland	5956	2.24
13	Netherlands	5152	1.94
14	Norway	4931	1.86
15	India	4830	1.82
	Total	265353	100

The above Table shows that the country-wise distribution of Geochemistry publications from top 15 countries. From 1996 to 2015, totally 265353 articles were published which are indexed in Scimago database. Among the publications, maximum of 78831(29.71%) articles published by United States and followed by China with 30631(11.55%) publications.

Country- wise Geochemistry Publications

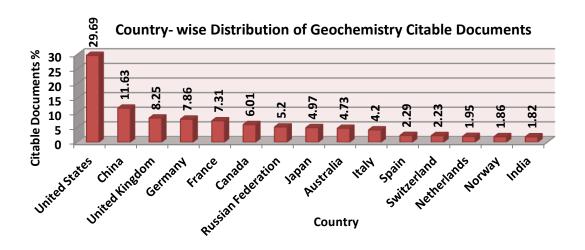


COUNTRY- WISE DISTRIBUTION OF GEOCHEMISTRY CITABLE DOCUMENTS:

Table 2: Country- wise Distribution of Geochemistry Citable Documents

S.NO	Country	Geochemistry	%
	•	Citable Documents	
1	United States	77554	29.69
2	China	30383	11.63
3	United Kingdom	21555	8.25
4	Germany	20528	7.86
5	France	19107	7.31
6	Canada	15709	6.01
7	Russian Federation	13578	5.20
8	Japan	12975	4.97
9	Australia	12353	4.73
10	Italy	10980	4.20
11	Spain	5976	2.29
12	Switzerland	5837	2.23
13	Netherlands	5082	1.95
14	Norway	4856	1.86
15	India	4743	1.82
	Total	261216	100

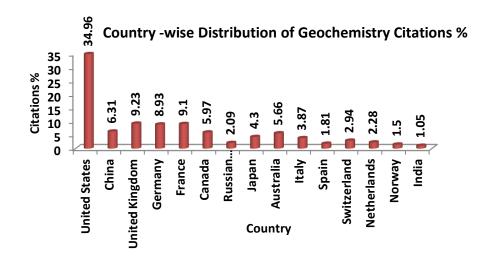
The above Table presents the country-wise distribution of Geochemistry citable documents (includes articles, reviews and conferences papers), from top 15 countries from 1996 to 2015, 261216 citable documents were available which are indexed in Scimago database. Among the citable documents maximum of 77554(29.69%) by United States followed by China with 30383(11.63%) and India contributed 4743(1.82%) citable documents.



COUNTRY- WISE DISTRIBUTION OF GEOCHEMISTRY CITATIONS: Table 3: Country -wise Distribution of Geochemistry Citations

S.NO	Country	Geochemistry	%
		Citations	
1	United States	1973170	34.96
2	China	356052	6.31
3	United Kingdom	520743	9.23
4	Germany	503761	8.93
5	France	513761	9.10
6	Canada	336731	5.97
7	Russian Federation	118048	2.09
8	Japan	242440	4.30
9	Australia	319542	5.66
10	Italy	218603	3.87
11	Spain	101951	1.81
12	Switzerland	166121	2.94
13	Netherlands	128690	2.28
14	Norway	84598	1.50
15	India	59530	1.05
	Total	5643741	100

The above Table presents the country-wise distribution of Geochemistry citations, from top 15 countries from 1996 to 2015. Among the 5643741 citations maximum of 1973170(34.96%) by United States followed by United Kingdom with 520743(9.23%) and France citation is 513761(9.10%).

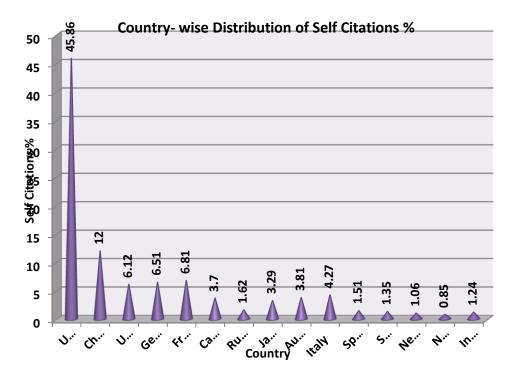


COUNTRY -WISE DISTRIBUTION OF SELF CITATIONS:

Table 4: Country- wise Distribution of Self Citations

S.NO	Country	Geochemistry Self Citations	%
1	United States	1015944	45.86
2	China	265907	12.00
3	United Kingdom	135428	6.12
4	Germany	144307	6.51
5	France	150928	6.81
6	Canada	81948	3.70
7	Russian Federation	35812	1.62
8	Japan	72973	3.29
9	Australia	84402	3.81
10	Italy	94538	4.27
11	Spain	33529	1.51
12	Switzerland	29909	1.35
13	Netherlands	23510	1.06
14	Norway	18754	0.85
15	India	27420	1.24
	Total	2215309	100

The above Table reveals that the country -wise distribution of Geochemistry self citations, from top 15 countries from 1996 to 2015. Among the 2215309 Geochemistry self citations maximum of 1015944(45.86%) by United States followed by China with 265907(12%) and France self citation is 150928(6.81%)

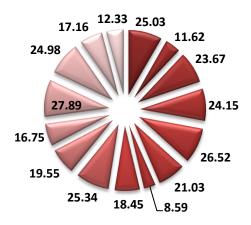


RANKING OF COUNTRY- WISE CITATIONS PER DOCUMENT Table 5: Ranking of Country -wise Citations per Document

S.NO	Country	Citations Per Document	Ranking
1	United States	25.03	IV
2	China	11.62	XIV
3	United Kingdom	23.67	VII
4	Germany	24.15	VI
5	France	26.52	II
6	Canada	21.03	VIII
7	Russian Federation	8.59	XV
8	Japan	18.45	X
9	Australia	25.34	III
10	Italy	19.55	IX
11	Spain	16.75	XII
12	Switzerland	27.89	I
13	Netherlands	24.98	V
14	Norway	17.16	XI
15	India	12.33	XIII

The above Table depicts that the ranking of country- wise distribution of citations per document (Average citations to documents published during 1996-2015), from top 15 countries. Among the citations per document study Switzerland is in first rank with 27.89, France 26.52 is in second rank and Australia is in third rank with 25.34 citations per document used.

Country - wise Citations per Document



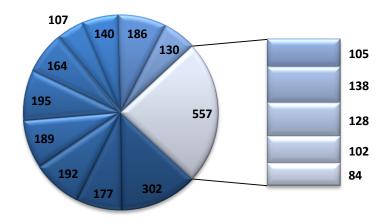
RANKING OF COUNTRY -WISE DISTRIBUTION OF H INDEX

Table 6: Ranking of Country- wise Distribution of H Index

S.NO	Country	H Index	Ranking
1	United States	302	I
2	China	177	VI
3	United Kingdom	192	Ш
4	Germany	189	IV
5	France	195	П
6	Canada	164	VII
7	Russian Federation	107	XII
8	Japan	140	VIII
9	Australia	186	V
10	Italy	130	X
11	Spain	105	XIII
12	Switzerland	138	IX
13	Netherlands	128	XI
14	Norway	102	XIV
15	India	84	XV

The data presented in the above table shows that the ranking of country-wise distribution of H Index (country's number of articles (h) that have received at least h citations) the United States is in the first rank with 302H indexes followed by France with 195H indexes and United Kingdom is in third rank with 192 H indexes.

Country- wise Distribution of H Index



CONCLUSION

quantity of The quality and research are made available through indexing journals with citations of various articles. There is lacking, for providing citations to other articles which authors cite. For reviewing the previous articles which are very much important for supporting your article value added point for publishing. It is a good practice to give self citation for their previous works and it follows up of the previous one and improved one. During the study period from 1996 to 2015, totally 265353 articles were published the maximum number of 78831(29.71%) articles published by United States and followed by China with 30631(11.55%) publications. The present study proves that, the maximum number of 77554(29.69%) citable documents United States followed by China with 30383(11.63%) and India contributed 4743(1.82%) citable documents. citations study depicts that maximum number of citations 1973170(34.96%)by United States followed by United Kingdom with 520743(9.23%) and France citation is 513761(9.10%) .The self citations study reveals that maximum of 1015944(45.86%) United States by followed by China with 265907(12%) and France self citation is 150928(6.81%) .The H Index study shows that the

United States is in the first rank with 302H indexes followed by France with 195H indexes and United Kingdom is in third rank with 192 H indexes.

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