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Open Access Research Visibility in Indian Research Information System (IRINS): An Analysis of Faculty Profiles of Manonmaniam Sundaranar University - A Study

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Abstract

Research visibility provides wider range of impact to the authors and institutions. There are a number of research visibility tools like Google scholar, Research Gate, Academia, Vidwan, IRINS etc. In this paper, analysis based on faculty profiles of IRINS Instance of Manonmaniam Sundaranar University, Tiruneveli was done and found the results. The results shows that, Department of Environmental Science ranked number one in the citations of articles, more than 75% of the publications were published in journals, more than 83% of the papers were published in the closed access journals, Prof Annadurai G ranked number one in their citations and H-index in Crossref visibility, Prof Annadurai G ranked number one in their citations and H-index in Google scholar visibility, and Herbal biomedicines: a new opportunity for aquaculture industry paper is the number one in the Crossref and Scopus citations.

Keywords: Open Access, Research Visibility Tool, IRINS, and Manonmaniam Sundaranar University

Introduction:

In India and Global level there are a number of research visibility tools available for scattering the faculty member publications. Some of the research visibility tools are in open access and some of them are in premium based access. Indian Research Information System (IRINS) is an Indian Government project which is under the control of INFLIBNET. This research visibility tool is an open access one and serves the national level visibility of all the faculty publications. Out of 583 IRINS instances in India, Manonmaniam Sundaranar University Tirunelveli has also registered and provides all the faculty publications in this IRINS instance. This paper provides all the analysis of the faculty publications like department wise citations and H-index, faculty wise citations and H-Index and also provides ranking of the faculty and department.

About IRINS

IRINS is web-based Research Information Management (RIM) service developed by the Information and Library Network (INFLIBNET) Centre. The portal facilitates the academic, R&D organizations and faculty members, scientists to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network. The IRINS is available as free software-as-service to the academic and R&D organizations in India. The IRINS would support to integrate the existing research management system such as HR system, course management, grant management system, institutional repository, open and commercial citation databases, scholarly publishers, etc. It has integrated with academic identity such as ORCID ID, ScopusID, Research ID, Microsoft Academic ID, Google Scholar ID for ingesting the scholarly publication from various sources. Overall 583 instances registered in India, 89255 Faculty Profiles , 1530685 publications, 16165551 citations and 4706358 altmetric mentions were uploaded in this system.

About the University

The University was established by the Government of Tamil Nadu as a teaching-cum-affiliating University on 7th September, 1990 to cater to the long-felt needs of the people of the four southern most districts of Tamil Nadu viz., Tirunelveli, Tenkasi, Thoothukudi, and Kanyakumari.It is named after the renowned Tamil Poet scholar, Professor P. Sundaram Pillai (1855-1897), the author of the famous verse drama Manonmaniam. It is his poem that has become "Tamil Thaai Vazhthu" the official invocation song sung in all functions in Tamilnadu. The motto of the University is "Reaching the Unreached". Around 2400 students are studying in this institution directly. The University has under its jurisdiction 91 affiliated Colleges, 6 University Colleges and 3 Constituent Colleges, about 1,20,000 students in regular mode and 40,000 students in distance mode. These colleges, amongst which three are over 100 years old viz., St. John's College, M.D.T. Hindu College, and Sarah Tucker College the oldest women's college in the state, have contributed decisively to the cause of higher education of

this region. The main focus of the university is to produce individuals who have the expertise and intellectual curiosity to make a difference in their profession and the society and in conducting the research needed to meet the challenges facing the contemporary world. Majority of the students of this University belong to rural and economically weaker sections of the society. Hence, this University imparts education at nominal and affordable cost. The curricula of the courses offered by this University are periodically updated and the University has resourceful teachers to deliver the same.

Literature Review:

Jeyapragash B and et.al (2019) wrote the article that Indian Research Information Network System (IRINS) developed by the Central University of Punjab, Bathinda in collaboration with Information and Library Network Centre (INFLIBNET) which can be used for higher education institution and research institutions to showcase the research contribution to the scholarly community. The data were taken from Indian Research Information Network System (http://irins.org/irins/) of 15 instances for the Academic and Research Organizations. The objectives of the article are to analyze the faculty members, department and their scholarly publications with citations and its impact. It is found that KL University, Guntur has highest 836 (17.22%) faculty member. The Indian Institute of Technology, Madras has received 278374 (26.28%) highest citations from Scopus and 227686 (22.30%) citations from Cross Ref.

Jeyapragash B and Muthuraj A (2019) studied the article that the IRINS is available as free software-as-service to the Academic and Research & Development organizations in India. It has integrated with academic identity such as Scopus ID, Researcher ID, Google Scholar ID, Microsoft Academic ID and ORCID ID for ingesting the scholarly publication from various sources. Profile Management System is the important tool to showcase of individual and institutional research in to outside world. Central University of Tamil Nadu has implemented IRINS Profile Management System to show their research An Analysis of Scholars Profiles at Central University of Tamil Nadu With 195 activities. It is found that the Department of Chemistry and Physics has contributed more and Department of Microbiology, Library and Information Science, Media and Communication, and Computer Science have contributed less. Hence it is recommended that the less contributed departments to concentrate more to improve their research visibility

Objectives of the study

These are the major objectives of the study.

1. To find out the types of publications.
2. To identify the categories of publications.
3. To identify the Top ten faculty members' publications ranking with Crossref Citations and H-Index.

4. To identify the Top five faculty members' publications ranking with Google Scholar citations, H- Index, and i10 Index.

5. To find out the top five articles with citations

Table 1 - Category of Faculty Members in the University

S. No	Category	No of Faculty Members
1	Dean	1
2	Professor	38
3	Associate Professor	14
4	Assistant Professor	60
5	Librarian	2
6	Assistant Librarian	1
7	Emeritius Scientist	1
8	Senior Professor	1
9	Assistant Professor Grade III	1
10	Assistant Professor Grade II	2
11	Assistant Professor Grade II	1
12	Assistant Professor Senior Scale	1
	Total	123

As per the above table 1, Manonmaniam Sundaranar University has 123 faculty members including 38 professors, 14 Associate Professors, 66 Assistant professors, one emeritus scientist, and three library professionals.

Table - 2 Types of Publications

S. No	Category	No of Publications	% of Publications
1	Journal Articles	2883	75
2	Conference Proceedings	631	17
3	Books Chapters	170	4
4	Other	159	4
	Total	3843	100

As per the above table 2, out of 3843 publications 2883 are journal articles (75%) 631 (17%), conference proceedings, 170 (4%) book chapters and 159 (4%) other publications respectively.

Table - 3 - Category of Publications

S. No	Type of Publications	No of Publications	% of Publications
1	Closed Access Papers	829	83
2	Gold Access Papers	98	10
3	Bronze Access Papers	38	4
4	Green Access Papers	33	3
	Total	**998**	**100**

As per the above table 3, out of 998 publications 829 (83%) are closed access papers, followed by 98 (10%) Gold Access Papers, 38 (4%) Bronze Access Papers, and 33 (3%) having Green Access papers respectively.

Table - 4 Department-wise Ranking of Publications, Citation and H-Index

S. No	Department	Publications	Citations	H-Index	Rank
1	Environmental Science	393	4664	43	1
2	Marine Sciences	247	3458	28	2
3	Chemistry	314	2959	32	3
4	Geotechnology	68	1857	8	4
5	Animal Sciences	112	1521	22	5
6	Physics	335	1389	20	6
7	Plant Science	59	1221	28	7
8	Computer Science	330	652	13	8
9	Mathematics	170	478	15	9
10	Information technology	225	422	13	10
11	Statistics	330	275	10	11
12	Biotechnology	99	236	9	12
13	Education	279	114	1	13
14	Pharmaceutical Chemistry	33	44	5	14
15	Sociology	22	5	1	15
16	Commerce	10	1	1	16
17	Economics	31	1	1	17
18	Library	391	1	3	18
19	Communication	1			19
20	Criminology	1			20

21	English	5			21
22	Management Studies	45			22
23	Physical Education	107			23
24	Social Exclusion	4			24
25	Tamil	3			25

As per the above table 4, department of Environment Science ranks number one in the university with 4664 citations, followed by Marine Sciences, Chemistry, Geotechnology, Animal Sciences, Physics, Plant Science, Computer Science, Mathematics, Information technology got the places 2nd to 10 based on the citations.
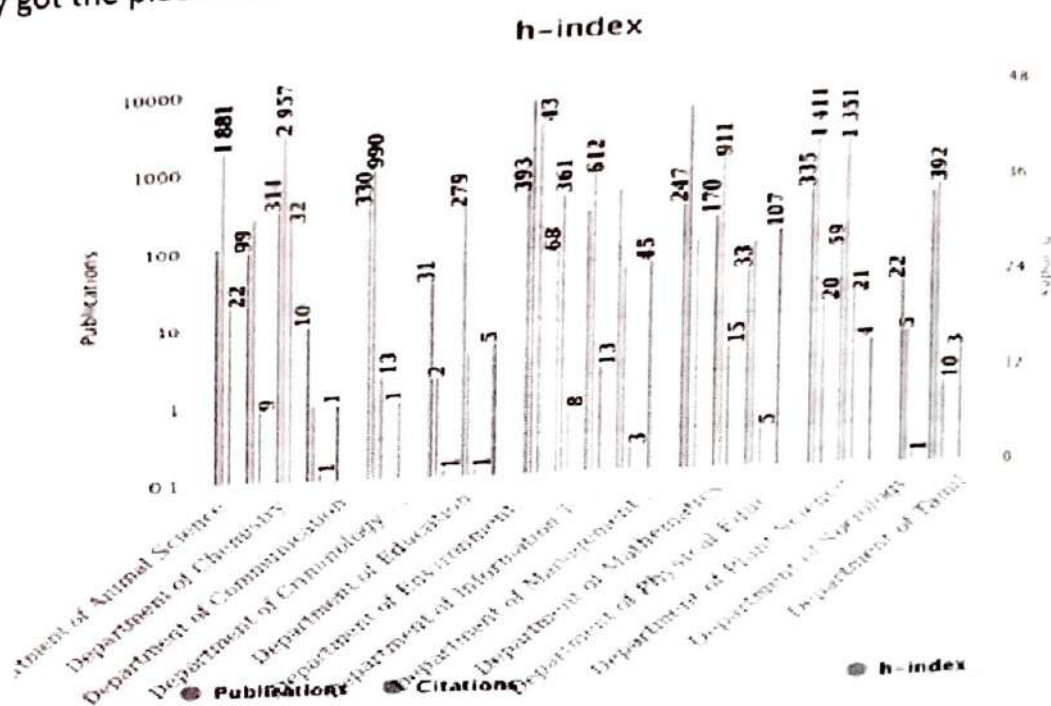

Figure 1 - Crossref Citations with H-Index

Table - 5 Top 10 Faculty Members Ranked in Scopus, Crossref Citations with H-Index

S. No	Name of the Faculty	Scopus Citations	Crossref Citations	H-Index	Rank
1	Prof Annadurai G	5638	4060	34	1
2	Prof Sengottayan Senthil-Nathan	3936	3339	40	2
3	Dr Selvam A	3765	3436	33	3
4	Dr Immanuel G	2234	1812	22	4
5	Citarasu Thavasimuthu	1742	1454	19	5
6	Dr Palavesam Arunachalam	1717	1360	21	6
7	Dr Nagarajan Srinivasan	1436	1419	21	7

8	Prof Subramanian E	1184	949	22	8
9	Dr Murugesan AG	975	723	17	9
10	Dr Mohanraj K	815	711	15	10

As per the above table 5, Professor Annadurai secured the first place in the university with Crossref , Scopus citations and H-Index followed by Prof Sengottayan Senthil-Nathan, Dr Selvam A, Dr Immanuel G, Citarasu Thavasimuthu, Dr Palavesam Arunachalam, Dr Nagarajan Srinivasan, Prof Subramanian E, Dr Murugesan AG, Dr Mohanraj K whom ranked between 2nd to 10th places according to their Crossref citations and H-Index.

Table - 6 Top 5 Faculty Members Ranked in Google Scholar with H-Index and i10 Index

S. No	Name of the Faculty	Google Scholar Citations	H-Index	I10 - Index	Rank
1	Prof Annadurai G	10426	52	114	1
2	Dr Selvam A	5114	40	76	2
3	Dr Immanuel G	4344	31	81	3
4	Citarasu Thavasimuthu	3794	27	50	4
5	Dr Palavesam Arunachalam	3376	29	75	5

As per the above table 5, Professor Annadurai secured the first place in the university with Crossref , Scopus citations and H-Index followed by Dr Selvam A, Dr Immanuel G, Citarasu Thavasimuthu, Dr Palavesam Arunachalam, ranked between 2nd to 10th places according to their Google Scholar citations and H-Index.

Table - 7 Top 5 articles with Citations

S. No	Name of the Article	Author Name	Crossref Citations	Scopus Citations	Journal Name	Ranking
1	Herbal biomedicines: a new opportunity for aquaculture industry	Citarasu Thavasimuthu	359	407	Aquaculture International	1
2	Delineation of groundwater potential zones in Theni district, Tamil Nadu, using remote sensing, GIS and MIF techniques	N.S.Magesh, N.Chandrasekar, John Prince Soundranayagam	336	330	Geoscience Frontiers	2
3	Coleus aromaticus leaf extract mediated synthesis of silver nanoparticles and its bactericidal activity	Vanaja M.;Annadurai G.	203	249	Applied Nanoscience	3

4	Growth and immune response of juvenile greasy groupers (Epinephelus tauvina) fed with herbal antibacterial active principle supplemented diets against Vibrio harveyi infections	V Sivaram, M.Babu, G Immanuel, S Murugadass, Citarasu Thavasimuthu, M.P. Marian	159	202	Aquaculture	4
5	A best proximity point theorem for weakly contractive non-self-mappings	Sankar Raj V	125	190	Nonlinear Analysis: Theory, Methods & Applications	5

As per the above table 7, Herbal biomedicines is the predominant paper in the University got first rank based on citations and followed by Delineation of groundwater potential zones , Coleus aromaticus leaf extract mediated synthesis of silver nanoparticles , Growth and immune response of juvenile greasy groupers , A best proximity point theorem for weakly contractive non-self-mappings whom ranked between 2 to 5 based on citations.

Conclusion

Research visibility tools plays a predominant role in the field of publication and research across the country and provides ranking of institutions, department and the faculty ranking based on their citations, h-index and i10 index. This paper found out the level of citations, h-index among the faculty members' publications of Manonmaniam Sundaranar University. The IRINS instance gets its significance to rank every institution by NAAC, NBA and NIRF etc and also adds image to the higher education institution.

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