



Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

Department of Physics and Electronics

Teacher Achievements- 2020-21

Sr. No.	Name of the Teacher	Achievement
1	Dr Abhijit Audumbar Yadav	Listed among 2% Scientists by Stanford University, USA
2	Dr Abhijit Audumbar Yadav	Received Appreciation from ATAL Academy, AICTE, New Delhi for Successfully conducting FDP on Photonics
3	Dr Dayanand Vishwanath Raje	Received Bharat Ratna Dr APJ Abdul Kalam International Honour Award-2020


HoD
HEAD

Department of Physics & Electronics
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)




Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
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Updated science-wide author databases of standardized citation indicators

John P. A. Ioannidis, Kevin W. Boyack, Jeroen Baas

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Competing interests: I have read the journal's policy and the authors of this manuscript have the following competing interests. JPAI is a member of the editorial board of *PLOS Biology*. JB is an Elsevier employee. Elsevier runs Scopus and ICSR Lab, which is the source of this data, and also runs Mendeley Data, where the database is now stored.

There was great interest in the databases of standardized citation metrics across all scientists and scientific disciplines [1], and many scientists urged us to provide updates of the databases. Accordingly, we have provided updated analyses that use citations from Scopus with data freeze as of May 6, 2020, assessing scientists for career-long citation impact up until the end of 2019 (Table-S6-career-2019) and for citation impact during the single calendar year 2019 (Table-S7-singleyr-2019). Updated databases and code are freely available in Mendeley (<https://dx.doi.org/10.17632/btchxktzyw>). The original database (version 1) can also be found in <https://data.mendeley.com/datasets/btchxktzyw/1>, the updated (version 2) can also be found in <https://data.mendeley.com/datasets/btchxktzyw/2>, and any subsequent updates that might appear in the future will be generally accessible in <https://dx.doi.org/10.17632/btchxktzyw>.

S6 and S7 tabulated data include all scientists who are among the top 100,000 across all fields according to the composite citation index [2] when self-citations are included and/or when self-citations are not included. Furthermore, in the current update, Tables S6 and S7 include also scientists who are not in the top 100,000 according to the composite index but are nevertheless within the top 2% of scientists of their main subfield discipline, across those that have published at least five papers. Another new feature in this update is that Tables S6 and S7 include new columns showing for each scientist the rank of their composite citation index within their subfield discipline (with and without self-citations) and the total number of authors within the subfield discipline. For example, for Kevin W. Boyack, rank is 50 and 52 for the composite citation index with and without self-citations, respectively, among the total of 10,391 scientists whose main subfield discipline is "Information and Library Sciences." This extension allows the inclusion of more comprehensive samples of top-cited scientists for fields that have low citation densities and therefore would be less likely to be found in the top 100,000 when all scientific fields are examined together. Comparisons of citation metrics are more meaningful when done within the same subdiscipline. Of course, even within the same subdiscipline, different areas may still possess different citation densities, and assessing citation indicators always require caution.

Field and subfield discipline categories use the Science-Metrix classification as in our previous work [1], but multidisciplinary journals that were previously not assigned to a Science-Metrix field or subfield [3] have now been assigned to a specific field and subfield using a character-based convolutional deep neural network. This machine learning approach was trained with a set consisting of over a million entries was found to be outperforming other approaches such as Wikipedia and Yahoo! Answers [4]. This allows a more accurate classification of scientists who publish many papers in multidisciplinary journals.

Tables S8 and S9 provide the 25th, 50th, 75th, 90th, 95th, and 99th percentile thresholds for each field and each subfield for career-long and single year 2019 impact based on citations and, separately, based on the composite indicator. The formula to calculate the composite indicator for career-long impact is derived by summing the ratio of log of 1 + the indicator value over the maximum of those indicator logs for 6 indicators (NC, H, Hm, NCS, NCSF, NCSFL) [3]:

$$c_i = \frac{\log(NC_i + 1)}{\max \log(NC + 1)} + \frac{\log(H_i + 1)}{\max \log(H + 1)} + \frac{\log(Hm_i + 1)}{\max \log(Hm + 1)} + \frac{\log(NCS_i + 1)}{\max \log(NCS + 1)} + \frac{\log(NCSF_i + 1)}{\max \log(NCSF + 1)} + \frac{\log(NCSFL_i + 1)}{\max \log(NCSFL + 1)}$$

The formula to calculate the composite indicator for single year 2019 impact follows the same principle and only uses citations from publications published in 2019. Maximum log values across the population are in separate tables for career (S10) and single year 2019 (S11).

Given the increasing attention given to the analysis of self-citations, we also include in Tables S8 and S9 data for each discipline and each subdiscipline of the 95th and 99th percentile threshold for the percentage of self-citations and for the ratio of citations over citing papers within the set of selected top-cited researchers. Very high proportion of self-citations and/or ratio of citations over

citing papers may or may not be justifiable and may require a closer look at the citation practices of these scientists. A percentage (4.9%) of the scientists who are in the top 2% of their subdiscipline for career-long impact when self-citations are included are no longer in the top 2% of their subdiscipline when self-citations are excluded, and 0.01% ($n = 15$) of these fall below the top 10%. Some scientists have extremely high ratios of citations over citing papers, far exceeding the 99th percentile threshold. Many papers by the same scientist may be fully legitimately often cited together in the same article. However, some authors have been found to manipulate peer-review to add multiple citations to their works [5,6].

Publications in author profiles currently have 98.1% average precision and 94.4% average recall [7]. Comments for correction of author profiles should be addressed to Scopus, preferably by use of the Scopus to ORCID feedback wizard (<https://orcid.scopusfeedback.com/>).

Acknowledgments

This work uses Scopus data provided by Elsevier through ICSR Lab.

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Table-S7-singleyr-2019 - Excel

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A80370Yadav, Abhijit A.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80358	Plaizier, J. C.	University of Manitoba	can	79	1993	2020	80357	573	13	4.590873	1	5	21	181	41
80359	Dávila, Jorge	Instituto Politécnico Nacional	mex	92	2005	2020	80358	323	8	4.933333	4	26	29	190	47
80360	Schmidt, Eric W.	The University of Utah	usa	104	1995	2020	80359	546	9	5.979249	8	13	22	89	82
80361	Wright, Geraldine A.	Newcastle University, United Kingdom	gbr	73	1999	2020	80360	641	13	5.907937	6	2	25	128	54
80362	Todd, Michael J.	Cornell University	usa	91	1974	2018	80361	478	10	5.7	44	26	53	54	85
80363	Moore, Peter F.	University of California, Davis	usa	225	1977	2020	80362	428	10	5.140632	4	29	20	89	76
80364	Flatters, Sarah J.L.	King's College London	gbr	28	2000	2019	80363	245	9	5.759524	5	26	14	148	23
80365	Côté, Adrien P.	Xerox Research Centre of Canada	can	26	2001	2010	80364	1904	10	3.253968	0	0	7	734	7
80366	Cao, Ruiguo	Hefei National Laboratory for Physical Sciences	chn	43	2009	2020	80365	1389	19	4.340747	0	0	9	309	10
80367	Németh, Károly	Massey University Manawatu	nzl	122	1997	2020	80366	396	8	5.90119	5	22	39	141	66
80368	Choudhary, Shobhna	Jai Narain Vyas University	ind	76	2008	2019	80367	229	8	6.166667	10	46	39	115	60
80369	Jänicke, Reiner U.	Heinrich-Heine-Universität Düsseldorf	deu	61	1985	2020	80368	594	7	3.928943	1	27	14	116	37
80370	Yadav, Abhijit A.	Rajarshi Shahu Mahavidyalaya, Latur	ind	49	2008	2019	80369	217	9	5.45	10	37	33	158	40
80371	Tao, Jun	South China Institute Of Environmental Sciences	chn	102	2009	2020	80370	1097	15	5.473576	0	0	21	334	28
80372	Harwood, Chris G.	Loughborough University	gbr	93	1996	2020	80371	438	11	6.416667	7	9	29	113	62
80373	McGuire, Shelley	Washington State University	usa	12	2013	2016	80372	211	4	4	12	211	12	211	12
80374	Ding, Guiguang	Tsinghua University	chn	148	2002	2020	80373	1312	17	7.960714	3	0	33	148	46
80375	Binderkrantz, Anne Skorkjær	Aarhus Universitet	dnk	27	2003	2020	80374	173	7	6	9	63	24	159	26
80376	Singh, Gurdip	Deen Dayal Upadhyay Gorakhpur University India	ind	207	1974	2019	80375	579	11	6.37619	9	1	126	311	157
80377	Dymecki, Susan M.	Harvard Medical School	usa	58	1990	2019	80376	530	12	6.991093	2	14	9	34	35
80378	Kwok, Timothy Chi yui	Chinese University of Hong Kong	hkg	281	1996	2020	80377	1292	15	7.314433	1	0	56	143	115
80379	Tenzer, Stefan	Klinikum der Johannes-Gutenberg-Universität	deu	127	2003	2020	80378	1100	15	4.753575	0	0	12	348	21

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NEWS

Dr Abhijit Yadav finds place among top world scientists

His recognition puts Shahu Mahavidyalaya on the global map of science

LOKMAT NEWS NETWORK
LATUR, NOV 14

Dr Abhijit Yadav, an assistant professor of Rajarshi Shahu Mahavidyalaya here, has been named among 1,494 Indian scientists who featured in the US-based Stanford University's list of top two percent scientists in the world.

Other prominent names on the list include Dr Raghunath Mashelkar (pioneer of Gandhian engineering), Dr Vidya Arankalle (former director grade scientist, National Institute of Virology), Dr Bhushan Patwardhan (UGC vice chairman), Dr T Padmanabhan (theoretical

physicist) and Dr Naresh Dadich (IUCAA).

Dr Yadav, who is a member of the American Nano-society, International Solar Energy Society and International Frequency Sensor Association (IFSA), teaches physics and photonics. He has completed two major projects, guided Ph D students and published 65 research articles in the areas of Material Science, Nanotechnology, Solar Energy and Supercapacitors.

"My inclusion in the coveted list will encourage other youngsters from Latur and Marathwada," the beaming Dr Yadav said.

Principal Dr Mahadev Gavhane has congratulated Dr Abhijit. He said, "It is a matter of great pride for the college that Dr Abhijit has been named among the top 2% of scien-

tists of the world in the field of Applied Physics



and Materials. The database of the independent study has been published in one of the highly rated journals — PLOS Biology."

The list has 1,59,693 persons with

nearly 1,500 scientists, doctors and engineers from India. The scientists have been classified into 22 fields and 176 sub-fields. President of Shiv Chhatrapati Shikshan Sanstha Dr Gopalrao Patil said, "Dr Yadav's recognition has placed Shahu Mahavidyalaya on the global map of science."

Dr P R Deshmukh, Anirudha Jadhav, Aiv Kishanrao Sonawane, Gopal Shinde, Dr AJ Raju, vice-principal Sadashiv Shinde and others have congratulated Dr Yadav on his achievement.

Lokmat Times 15-11-20

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*This is certified that **Dr. Abhijit Yadav**, Assistant Professor of **RAJARSHI SHAHU MAHAVIDYALAYA, LATUR, CHANDRANAGAR, MAHARASHTRA** has successfully coordinated ATAL Online Faculty Development Programme on "Photonics" from 03/11/2020 to 07/11/2020.*

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