

<p><b>3.4.9</b></p> <p><b>Q<sub>n</sub>M</b></p>	<p><b><i>Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-Index of the University</i></b></p> <p>Data to be provided for the last five years:</p> <ul style="list-style-type: none"> <li>• Title of the paper</li> <li>• Name of the author</li> <li>• Title of the journal</li> <li>• Year of publication</li> <li>• H index</li> </ul> <p>Formula:</p> $\frac{\text{h – Index of Scopus} + \text{h – index of Web of Science in last five years}}{2}$ <p><b>File Description (Upload)</b></p> <ul style="list-style-type: none"> <li>• Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution</li> <li>• Any additional information</li> </ul> <p>* The Data obtained from inflibnet will be used for the purpose of calculation of scores.</p>	<p><b>15</b></p>
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**DVV requirement**

**Documents Needed**

**Specific instruction to HEI**

**Avoid the following while uploading data**

The data for this metric will be fetched by INFLIBNET directly.

The HEI can seek clarification for the data given by INFLIBNET through the portal only.

Evidence of h-index Scopus [8743] in [Annexure 3.4.9.A](#)

Evidence of h-index Web of Science [9328] in [Annexure 3.4.9.B](#)

## 3.4.9.A.

Title of the paper	Name of Author	Title of the journal	Year of publication	Scopus h-Index [59]
Planetary boundaries: Guiding human development on a changing planet	Steffen W., Richardson K., Rockstrom J., Cornell S.E., Fetzer I., Bennett E.M., Biggs R., Carpenter S.R., De Vries W., De Wit C.A., Folke C., Gerten D., Heinke J., Mace G.M., Persson L.M., Ramanathan V., Reyers B., Sorlin S.	Science	2015	3144
Biological approaches for treatment of distillery wastewater: A review	Pant D., Adholeya A.	Bioresource Technology	2007	363
Wastewater treatment in molasses-based alcohol distilleries for COD and color removal: A review	Satyawali Y., Balakrishnan M.	Journal of Environmental Management	2008	338
Energy and material flows of megacities	Kennedy C.A., Stewart I., Facchini A., Cersosimo I., Mele R., Chen B., Uda M., Kansal A., Chiu A., Kim K.-G., Dubeux C., La Rovere E.L., Cunha B., Pincetl S., Keirstead J., Barles S., Pusaka S., Gunawan J., Adegbile M., Nazariha M., Hoque S., Marcotullio P.J., Otharan F.G., Genena T., Ibrahim N., Farooqui R., Cervantes G., Sahin A.D.	Proceedings of the National Academy of Sciences of the United States of America	2015	217
The FHA domain proteins DAWDLE in Arabidopsis and SNIP1 in humans act in small RNA biogenesis	Yu B., Bi L., Zheng B., Ji L., Chevalier D., Agarwal M., Ramachandran V., Li W., Lagrange T., Walker J.C., Chen X.	Proceedings of the National Academy of Sciences of the United States of America	2008	205
A framework for mapping tree species combining hyperspectral and LiDAR data: Role of selected classifiers and sensor across three spatial scales	Ghosh A., Fassnacht F.E., Joshi P.K., Kochb B.	International Journal of Applied Earth Observation and Geoinformation	2014	204
An international comparative analysis of sustainability transformation across seven universities	Ferrer-Balas D., Adachi J., Banas S., Davidson C.I., Hoshikoshi A., Mishra A., Motodoa Y., Onga M., Ostwald M.	International Journal of Sustainability in Higher Education	2008	191
Catalytic applications of red mud, an aluminium industry waste: A review	Sushil S., Batra V.S.	Applied Catalysis B: Environmental	2008	190
Evaluation of vertical accuracy of open source Digital Elevation Model (DEM)	Mukherjee S., Joshi P.K., Mukherjee S., Ghosh A., Garg R.D., Mukhopadhyay A.	International Journal of Applied Earth Observation and Geoinformation	2012	187
Assessment of genetic fidelity of micropropagated Swertia chirayita plantlets by ISSR marker assay	Joshi P., Dhawan V.	Biologia Plantarum	2007	179
A review of technology diffusion models with special reference to renewable energy technologies	Rao K.U., Kishore V.V.N.	Renewable and Sustainable Energy Reviews	2010	146
Monitoring urbanization dynamics in india using DMSP/OLS night time lights and SPOT-VGT data	Pandey B., Joshi P.K., Seto K.C.	International Journal of Applied Earth Observation and Geoinformation	2013	138
Analysis of fly ash heavy metal content and disposal in three thermal power plants in India	Sushil S., Batra V.S.	Fuel	2006	135
Asparagus racemosus-Ethnopharmacological evaluation and conservation needs	Bopana N., Saxena S.	Journal of Ethnopharmacology	2007	125
A comparison of selected classification algorithms for mapping bamboo patches in lower Gangetic plains using very high resolution WorldView 2 imagery	Ghosh A., Joshi P.K.	International Journal of Applied Earth Observation and Geoinformation	2014	121
Solar energy programs for rural electrification: Experiences and lessons from South Asia	Palit D.	Energy for Sustainable Development	2013	121
EIA practice in India and its evaluation using SWOT analysis	Paliwal R.	Environmental Impact Assessment Review	2006	119
Between activism and science: Grassroots concepts for sustainability coined by environmental justice organizations	Martinez-Alier J., Anguelovski I., Bond P., Del Bene D., Demaria F., Gerber J.-F., Greyl L., Haas W., Healy H., Marin-Burgos V., Ojo G., Porto M., Rijnhout L., Rodriguez-Labajos B., Spangenberg J., Temper L., Warlenius R., Yanez I.	Journal of Political Ecology	2014	118
Effect of PAC addition on sludge properties in an MBR treating high strength wastewater	Satyawali Y., Balakrishnan M.	Water Research	2009	116
Isolation and purification of lignin and silica from the black liquor generated during the production of bioethanol from rice straw	Minu K., Jiby K.K., Kishore V.V.N.	Biomass and Bioenergy	2012	114
Waste materials – catalytic opportunities: An overview of the application of large scale waste materials as resources for catalytic applications	Balakrishnan M., Batra V.S., Hargreaves J.S.J., Pulford I.D.	Green Chemistry	2011	107
Swertia chirayita - An overview	Joshi P., Dhawan V.	Current Science	2005	106
Development of decadal (1985-1995-2005) land use and land cover database for India	Roy P.S., Roy A., Joshi P.K., Kale M.P., Srivastava V.K., Srivastava S.K., Dwevedi R.S., Joshi C., Behera M.D., Meiyappan P., Sharma Y., Jain A.K., Singh J.S., Palchowdhuri Y., Ramachandran R.M., Pinjarla B., Chakravarthi V., Babu N., Gowsalya M.S., Thiruvengadam P., Kotteeswaran M., Priya V., Yelishetty K.M.V.N., Maithani S., Talukdar G., Mondal I., Rajan K.S., Narendra P.S., Biswal S., Chakraborty A., Padalia H., Chavan M., Pardeshi S.N., Chaudhari S.A., Anand A., Vyas A., Reddy M.K., Ramalingam M., Manonmani R., Behera P., Das P., Tripathi P., Matin S., Khan M.L., Tripathi O.P., Deka J., Kumar P., Kushwaha D.	Remote Sensing	2015	102

## 3.4.9.2

### 3.4.9.A.

Title of the paper	Name of Author	Title of the journal	Year of publication	Scopus h-Index [59]
Comparison of feature reduction algorithms for classifying tree species with hyperspectral data on three central european test sites	Fassnacht F.E., Neumann C., Forster M., Buddenbaum H., Ghosh A., Clasen A., Joshi P.K., Koch B.	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	2014	100
A critical revisit of the key parameters used to describe microbial electrochemical systems	Sharma M., Bajracharya S., Gildemyn S., Patil S.A., Alvarez-Gallego Y., Pant D., Rabaey K., Dominguez-Benetton X.	Electrochimica Acta	2014	99
Microbial diversity: Application of microorganisms for the biodegradation of xenobiotics	Jain R.K., Kapur M., Labana S., Lal B., Sarma P.M., Bhattacharya D., Thakur I.S.	Current Science	2005	99
Evaluation of genetic diversity among <i>Pseudomonas citronellolis</i> strains isolated from oily sludge-contaminated sites	Bhattacharya D., Sarma P.M., Krishnan S., Mishra S., Lal B.	Applied and Environmental Microbiology	2003	95
Delineation of Groundwater Potential Zones in Arid Region of India-A Remote Sensing and GIS Approach	Mukherjee P., Singh C.K., Mukherjee S.	Water Resources Management	2012	90
Detoxification and accumulation of chromium from tannery effluent and spent chrome effluent by <i>Paecilomyces lilacinus</i> fungi	Sharma S., Adholeya A.	International Biodeterioration and Biodegradation	2011	90
Measuring environmental efficiency of industry: A case study of thermal power generation in India	Murty M.N., Kumar S., Dhavala K.K.	Environmental and Resource Economics	2007	89
Climate's dark forcings	Andreae M.O., Ramanathan V.	Science	2013	88
Improving industrial water use: Case study for an Indian distillery	Saha N.K., Balakrishnan M., Batra V.S.	Resources, Conservation and Recycling	2005	88
Via surface functionalization by photograft copolymerization to low-fouling polyethersulfone-based ultrafiltration membranes	Susanto H., Balakrishnan M., Ulbricht M.	Journal of Membrane Science	2007	85
Aging and the human gut microbiota - from correlation to causality	Saraswati S., Sitaraman R.	Frontiers in Microbiology	2014	83
Perfluoroalkyl substances (PFAS) in river and ground/drinking water of the Ganges River basin: Emissions and implications for human exposure	Sharma B.M., Bharat G.K., Tayal S., Larssen T., Becanova J., Karaskova P., Whitehead P.G., Futter M.N., Butterfield D., Nizzetto L.	Environmental Pollution	2016	82
Environment and human exposure to persistent organic pollutants (POPs) in India: A systematic review of recent and historical data	Sharma B.M., Bharat G.K., Tayal S., Nizzetto L., Cupr P., Larssen T.	Environment International	2014	82
New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities	Roy P.S., Behera M.D., Murthy M.S.R., Roy A., Singh S., Kushwaha S.P.S., Jha C.S., Sudhakar S., Joshi P.K., Reddy C.S., Gupta S., Pujar G., Dutt C.B.S., Srivastava V.K., Porwal M.C., Tripathi P., Singh J.S., Chitale V., Skidmore A.K., Rajshankar G., Kushwaha D., Karnatak H., Saran S., Giriraj A., Padalia H., Kale M., Nandy S., Jeganathan C., Singh C.P., Biradar C.M., Pattanaik C., Singh D.K., Devagiri G.M., Talukdar G., Panigrahy R.K., Singh H., Sharma J.R., Haridasan K., Trivedi S., Singh K.P., Kannan L., Daniel M., Misra M.K., Niphadkar M., Nagabhatla N., Prasad N., Tripathi O.P., Rama Chandra Prasad P., Dash P., Qureshi Q., Tripathi S.K., Ramesh B.R., Gowda B., Tomar S., Romshoo S., Giriraj S., Ravan S.A., Behera S.K., Paul S., Das A.K., Ranganath B.K., Singh T.P., Sahu T.R., Shankar U., Menon A.R.R., Srivastava G., Neeti, Sharma S., Mohapatra U.B., Peddi A., Rashid H., Salroo I., Hari Krishna P., Hajra P.K., Vergheese A.O., Matin S., Chaudhary S.A., Ghosh S., Lakshmi U., Rawat D., Ambastha K., Malik A.H., Devi B.S.S., Sharma K.C., Mukharjee P., Sharma A., Davidar P., Raju R.R.V., Katewa S.S., Kant S., Raju V.S., Uniyal B.P., Dabnath B., Pant D.K., Thapa P., Joseph S., Chhetri D.	International Journal of Applied Earth Observation and Geoinformation	2015	80
Bioelectrocatalyzed reduction of acetic and butyric acids via direct electron transfer using a mixed culture of sulfate-reducers drives electrosynthesis of alcohols and acetone	Sharma M., Aryal N., Sarma P.M., Vanbroekhoven K., Lal B., Benetton X.D., Pant D.	Chemical Communications	2013	80
Removal of color from biometanated distillery spentwash by treatment with activated carbons	Satyawali Y., Balakrishnan M.	Bioresource Technology	2007	80
Assessing the potential of hyperspectral imagery to map bark beetle-induced tree mortality	Fassnacht F.E., Latifi H., Ghosh A., Joshi P.K., Koch B.	Remote Sensing of Environment	2014	79
Thermodynamics and the destruction of resources	Bakshi B.R., Gutowski T.G., Sekulic D.P.	Thermodynamics and the Destruction of Resources	2011	79
Performance analysis of 100 kWp grid connected Si-poly photovoltaic system using PVsyst simulation tool	Kumar N.M., Kumar M.R., Rejoice P.R., Mathew M.	Energy Procedia	2017	77
New Directions: Can a "blue sky" return to Indian megacities?	Kumar P., Jain S., Gurjar B.R., Sharma P., Khare M., Morawska L., Britter R.	Atmospheric Environment	2013	77
QTL mapping in new <i>Arabidopsis thaliana</i> advanced intercross-recombinant inbred lines	Balasubramanian S., Schwartz C., Singh A., Warthmann N., Kim M.C., Maloof J.N., Loudet O., Trainer G.T., Dabi T., Borevitz J.O., Chory J., Weigel D.	PLoS ONE	2009	74
Modeling urban heat islands in heterogeneous land surface and its correlation with impervious surface area by using night-time ASTER satellite data in highly urbanizing city, Delhi-India	Mallick J., Rahman A., Singh C.K.	Advances in Space Research	2013	73
Endophytic Fungi Isolated from Oil-Seed Crop <i>Jatropha curcas</i> Produces Oil and Exhibit Antifungal Activity	Kumar S., Kaushik N.	PLoS ONE	2013	73
Multivariate statistical analysis and geochemical modeling for geochemical assessment of groundwater of Delhi, India	Singh C.K., Kumar A., Shashtri S., Kumar A., Kumar P., Mallick J.	Journal of Geochemical Exploration	2017	71

### 3.4.9.A.

Title of the paper	Name of Author	Title of the journal	Year of publication	Scopus h-Index [59]
E-service quality model for Indian government portals: Citizens' perspective	Bhattacharya D., Gulla U., Gupta M.P.	Journal of Enterprise Information Management	2012	71
Mobilizing information and communications technologies for effective disaster warning: Lessons from the 2004 tsunami	Samarajiva R.	New Media and Society	2005	70
Degradation of polycyclic aromatic hydrocarbons by a newly discovered enteric bacterium, <i>Leclercia adecarboxylata</i>	Sarma P.M., Bhattacharya D., Krishnan S., Lal B.	Applied and Environmental Microbiology	2004	70
Evaluating the potential of concentrating solar power generation in Northwestern India	Purohit I., Purohit P., Shekhar S.	Energy Policy	2013	69
Analyzing deforestation rates, spatial forest cover changes and identifying critical areas of forest cover changes in North-East India during 1972-1999	Lele N., Joshi P.K.	Environmental Monitoring and Assessment	2009	69
Treatment of distillery effluent in a membrane bioreactor (MBR) equipped with mesh filter	Satyawali Y., Balakrishnan M.	Separation and Purification Technology	2008	69
An urban systems framework to assess the trans-boundary food-energy-water nexus: Implementation in Delhi, India	Ramaswami A., Boyer D., Nagpure A.S., Fang A., Bogra S., Bakshi B., Cohen E., Rao-Ghorpade A.	Environmental Research Letters	2017	68
Advanced simulation of biomass gasification in a fluidized bed reactor using ASPEN PLUS	Kaushal P., Tyagi R.	Renewable Energy	2017	68
Identifying public preferences using multi-criteria decision making for assessing the shift of urban commuters from private to public transport: A case study of Delhi	Jain S., Aggarwal P., Kumar P., Singhal S., Sharma P.	Transportation Research Part F: Traffic Psychology and Behaviour	2014	68
What role for short-lived climate pollutants in mitigation policy?	Shoemaker J.K., Schrag D.P., Molina M.J., Ramanathan V.	Science	2013	66
Enhanced production of ligninolytic enzymes and decolorization of molasses distillery wastewater by fungi under solid state fermentation	Pant D., Adholeya A.	Biodegradation	2007	66
GIS based analysis for assessing the accessibility at hierarchy	Gupta K., Roy A., Luthra K., Maithani S., Mahavir	Urban Forestry and Urban Greening	2016	62

3.4.9.B.

Title of the paper	Name of Author	Title of the journal	Year of publication	Web of Science h-Index [40]
Planetary boundaries: Guiding human development on a changing planet	Steffen, Will; Richardson, Katherine; Rockstrom, Johan; Cornell, Sarah E.; Fetzer, Ingo; Bennett, Elena M.; Biggs, Reinette; Carpenter, Stephen R.; de Vries, Wim; de Wit, Cynthia A.; Folke, Carl; Gerten, Dieter; Heinke, Jens; Mace, Georgina M.; Persson, Linn M.; Ramanathan, Veerabhadran; Reyers, Belinda; Sorlin, Sverker	SCIENCE	2015	3352
Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017	Roth, Gregory A.; Abate, Degu; Abate, Kalkidan Hassen; Abay, Solomon M.; Abbafati, Cristiana; Abbasi, Nooshin; Abbastabar, Hedayat; Abd-Allah, Load; Abdela, Jemal; Abdelalim, Ahmed; Abdollahpour, Ibrahim; Abdulkader, Rizwan Suliankatchi; Abebe, Haftom Temesgen; Abebe, Molla; Abebe, Zegeye; Abejie, Ayenew Negesse; Abera, Semaw F.; Abil, Olifan Zewdie; Abraha, Haftom Niguse; Abraham, Aklilu Roba; Abu-Raddad, Laith Jamal; Accrombessi, Manfred Mario Kokou; Acharya, Dilaram; Adamu, Abdu A.; Adebayo, Oladimeji; Adedoyin, Rufus Adesoji; Adekanmbi, Victor; Adookunboh, Olatunji; Adhena, Beyene Meressa; Adib, Mina G.; Admasie, Aniha; Afshin, Ashkan; Agarwal, Gina; Agesa, Karelia M.; Agrawal, Anurag; Agrawal, Sutapa; Ahmadi, Alireza; Ahmadi, Melidi; Ahmed, Muktar Beshir; Ahmed, Sayent; Aichour, Amani Nidhal; Aichour, Ibtihel; Aichour, Miloud Taki Fddine; Akbari, Mohammad Esmaeil; Akinyeniti, Rufus Olusola; Akseer, Nadia; Al-Aly, Ziyad; Al-Eyadhy, Ayman; Al-Raddadi, Rajaa M.; Alandab, Fares; Alam, Khurshid; Alam, Tahiya; Alebel, Animut; Alene, Kefyalew Addis; Alijanzadeh, Mehran; Alizadeh-Navaei, Reza; Aljunied, Syed Mohamed; Alkerwi, Ala'a; Alla, Francois; Allebeck, Peter; Alonso, Jordi; Davison, J.; Moora, M.; Oepik, M.; Adholeya, A.; Ainsaar, L.; Ba, A.; Burla, S.; Diedhiou, A. G.; Hiiesalu, I.; Jairus, T.; Johnson, N. C.; Kane, A.; Koorem, K.; Kochar, M.; Ndiaye, C.; Paertel, M.; Reier, Ue.; Saks, Ue.; Singh, R.; Vasar, M.; Zobel, M.	LANCET	2018	1459
Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism	Davison, J.; Moora, M.; Oepik, M.; Adholeya, A.; Ainsaar, L.; Ba, A.; Burla, S.; Diedhiou, A. G.; Hiiesalu, I.; Jairus, T.; Johnson, N. C.; Kane, A.; Koorem, K.; Kochar, M.; Ndiaye, C.; Paertel, M.; Reier, Ue.; Saks, Ue.; Singh, R.; Vasar, M.; Zobel, M.	SCIENCE	2015	372
Energy and material flows of megacities	Kennedy, Christopher A.; Stewart, Iain; Facchini, Angelo; Cersosimo, Igor; Mele, Renata; Chen, Bin; Uda, Mariko; Kansal, Arun; Chiu, Anthony; Kim, Kwi-gon; Dubeux, Carolina; La Rovere, Emilio Lebre; Cunha, Bruno; Pincetl, Stephanie; Keirstead, James; Barles, Sabine; Pusaka, Semerdanta; Gunawan, Juniati; Adegbile, Michael; Nazariha, Mehrdad; Hoque, Shamsul; Marcotullio, Peter J.; Gonzalez Otharan, Florencia; Genena, Tarek; Ibrahim, Nadine; Farooqui, Rizwan; Cervantes, Gemma; Sahin, Ahmet Duran	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2015	192
A Review on the Assessment of Stress Conditions for Simultaneous Production of Microalgal Lipids and Carotenoids	Minhas, Amritpreet K.; Hodgson, Peter; Barrow, Colin J.; Adholeya, Alok	FRONTIERS IN MICROBIOLOGY	2016	180
Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017	Lozano, Rafael; Fullman, Nancy; Abate, Degu; Abay, Solomon M.; Abbafati, Cristiana; Abbasi, Nooshin; Abbastabar, Hedayat; Abd-Allah, Foad; Abdela, Jemal; Abdelalim, Ahmed; Abdel-Rahman, Omar; Abdi, Alireza; Abdollahpour, Ibrahim; Abdulkader, Rizwan Suliankatchi; Abebe, Nebiyu Dereje; Abebe, Zegeye; Abejie, Ayenew Negesse; Abera, Semaw P.; Abil, Olifan Zewdie; Aboyans, Victor; Abraha, Haftom Niguse; Abraham, Aklilu Rota; Abu-Raddad, Laith Jamal; Abu-Rmeileh, Niveen Me; Abyu, Gebre Y.; Accrombessi, Manfred Mario Kokou; Acharya, Dilaram; Acharya, Pawan; Adamu, Abdu A.; Adebayo, Oladimeji M.; Adedeji, Isaac Akinkumui; Adedoyin, Rufus Adesoji; Adekanmbi, Victor; Adetokunboh, Olatunji; Adhena, Beyene Meressa; Adhikari, Tara Rattan; Adib, Mine G.; Adou, Arsene Kouablan; Adsuar, Jose C.; Afarideh, Mohsen; Afshari, Mandi; Afshin, Ashkan; Agarwal, Gina; Aghayan, Sargis Aghasi; Agius, Dominic; Agrawal, Anurag; Agrawal, Sutapa; Ahmadi, Alireza; Ahmadi, Melidi; Ahmadi, Melidi; Ahmadi, Muktar Beshir; Ahmed, Sayem; Akalu, Temesgen Yihunie; Akanda, Ali S.; Akbari, Mohammad Esmaeil; Akibu, Mohammed; Akinyemi, Rufus Olusola; Akinyemiju, Tomi; Akseer, Nadia; Alandab, Fares; Al-Aly, Ziyad; Alam	LANCET	2018	151

### 3.4.9.B.

Title of the paper	Name of Author	Title of the journal	Year of publication	Web of Science h-Index [40]
An overview of the first decade of Polly(NET): an emerging network of automated Raman-polarization lidars for continuous aerosol profiling	Baars, Holger; Kanitz, Thomas; Engelmann, Ronny; Althausen, Dietrich; Heese, Birgit; Komppula, Mika; Preissler, Jana; Tesche, Matthias; Ansmann, Albert; Wandinger, Ulla; Lim, Jae-Hyun; Ahn, Joon Young; Stachlewska, Iwona S.; Amiridis, Vassilis; Marinou, Eleni; Seifert, Patric; Hofer, Julian; Skupin, Annett; Schneider, Florian; Bohlmann, Stephanie; Foth, Andreas; Bley, Sebastian; Pfuller, Anne; Giannakaki, Eleni; Lihavainen, Heikki; Viisanen, Yrjo; Hooda, Rakesh Kumar; Pereira, Sergio Nepomuceno; Bortoli, Daniele; Wagner, Frank; Mattis, Ina; Janicka, Lucja; Markowicz, Krzysztof M.; Achtert, Peggy; Artaxo, Paulo; Pauliquevis, Theotonio; Souza, Rodrigo A. F.; Sharma, Ved Prakesh; van Zyl, Pieter Gideon; Beukes, Johan Paul; Sun, Junying; Rohwer, Erich G.; Deng, Ruru; Mamouri, Rodanthi-Elisavet; Zamorano, Felix	ATMOSPHERIC CHEMISTRY AND PHYSICS	2016	113
Nanofertilizers and nanopesticides for agriculture	Chhipa, Hemraj	ENVIRONMENTAL CHEMISTRY LETTERS	2017	103
Development of Decadal (1985-1995-2005) Land Use and Land Cover Database for India	Roy, Parth S.; Roy, Arijit; Joshi, Pawan K.; Kale, Manish P.; Srivastava, Vijay K.; Srivastava, Sushil K.; Dwevidi, Ravi S.; Joshi, Chitiz; Behera, Mukunda D.; Meiyappan, Prasanth; Sharma, Yeshu; Jain, Atul K.; Singh, Jamuna S.; Palchowdhuri, Yajnaseni; Ramachandran, Reshma. M.; Pinjarla, Bhavani; Chakravarthi, V.; Babu, Nani; Gowsalya, Mahalakshmi S.; Thiruvengadam, Praveen; Kotteeswaran, Mrinalni; Priya, Vishnu; Yelishetty, Krishna Murthy V. N.; Maithani, Sandeep; Talukdar, Gautam; Mondal, Indranil; Rajan, Krishnan S.; Narendra, Prasad S.; Biswal, Sushmita; Chakraborty, Anusheema; Padalia, Hitendra; Chavan, Manoj; Pardeshi, Satish N.; Chaudhari, Swapnil A.; Anand, Arur; Vyas, Anjana; Reddy, Mruthyunjaya K.; Ramalingam, M.; Manonmani, R.; Behera, Pritiranjan; Das, Pulakesh; Tripathi, Poonam; Matin, Shafique; Khan, Mohammed L.; Tripathi, Om P.; Dekka, Jyotihman; Kumar, Prasanna; Kushwaha, Deepak	REMOTE SENSING	2015	91
New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities	Roy, P. S.; Behera, M. D.; Murthy, M. S. R.; Roy, Arijit; Singh, Sarnam; Kushwaha, S. P. S.; Jha, C. S.; Sudhakar, S.; Joshi, P. K.; Reddy, Ch. Sudhakar; Gupta, Stutee; Pujar, Girish; Dutt, C. B. S.; Srivastava, V. K.; Porwal, M. C.; Tripathi, Poonam; Singh, J. S.; Chitale, Vishwas; Skidmore, A. K.; Rajshekhkar, G.; Kushwaha, Deepak; Karnatak, Harish; Saran, Sameer; Giriraj, A.; Padalia, Hitendra; Kale, Manish; Nandy, Subrato; Jeganathan, C.; Singh, C. P.; Biradar, C. M.; Pattanaik, Chiranjibi; Singh, D. K.; Devagiri, G. M.; Talukdar, Gautam; Panigrahy, Rabindra K.; Singh, Harnam; Sharma, J. R.; Haridasan, K.; Trivedi, Shivam; Singh, K. P.; Kannan, L.; Daniel, M.; Misra, M. K.; Niphadkar, Madhura; Nagabhatla, Nidhi; Prasad, Nupoor; Tripathi, O. P.; Prasad, P. Rama Chandra; Dash, Pushpa; Qureshi, Qamer; Tripathi, S. K.; Ramesh, B. R.; Gowda, Balakrishnan; Tomar, Sanjay; Romshoo, Shakil; Giriraj, Shilpa; Ravan, Shirish A.; Behera, Soumit Kumar; Paul, Subrato; Das, Ashesh Kumar; Ranganath, B. K.; Singh, T. P.; Sahu, T. R.; Shankar, Uma; Menon, A. R. R.; Srivastava, Gaurav; Neeti; Sharma, Subrat; Mohapatra, U. B.; Peddi, Ashok; Rashid, Humayun; Salroo, Irfan; Krishna, P. Hari; Haira P. K.; Vereheese A. O.; Matin Shafique;	INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION	2015	81
Mini-grid based off-grid electrification to enhance electricity access in developing countries: What policies may be required?	Bhattacharyya, Subhes C.; Palit, Debajit	ENERGY POLICY	2016	80
Aging and the human gut microbiota-from correlation to causality	Saraswati, Sitaraman; Sitaraman, Ramakrishnan	FRONTIERS IN MICROBIOLOGY	2015	77
Perfluoroalkyl substances (PFAS) in river and ground/drinking water of the Ganges River basin: Emissions and implications for human exposure	Sharma, Brij Mohan; Bharat, Giriya K.; Tayal, Shresth; Larsen, Thoriorn; Becanova, Jitka; Karaskova, Pavlina; Whitehead, Paul G.; Futter, Martyn N.; Butterfield, Dan; Nizzetto, Luca	ENVIRONMENTAL POLLUTION	2016	74
Multivariate statistical analysis and geochemical modeling for geochemical assessment of groundwater of Delhi, India	Singh, Chander Kumar; Kumar, Anand; Shashtri, Satyanarayan; Kumar, Alok; Kumar, Pankaj; Mallick, Javed	JOURNAL OF GEOCHEMICAL EXPLORATION	2017	66
Marine Fungi: A Source of Potential Anticancer Compounds	Deshmukh, Sunil K.; Prakash, Ved; Ranjan, Nihar	FRONTIERS IN MICROBIOLOGY	2018	65
An urban systems framework to assess the trans-boundary food-energy-water nexus: implementation in Delhi, India	Ramaswami, Anu; Boyer, Dana; Nagpure, Ajay Singh; Fang, Andrew; Bogra, Shelly; Bakshi, Bhavik; Cohen, Elliot; Rao-Ghorpade, Ashish	ENVIRONMENTAL RESEARCH LETTERS	2017	59

### 3.4.9.B.

Title of the paper	Name of Author	Title of the journal	Year of publication	Web of Science h-Index [40]
Advanced simulation of biomass gasification in a fluidized bed reactor using ASPEN PLUS	Kaushal, Priyanka; Tyagi, Rakesh	RENEWABLE ENERGY	2017	57
GIS based analysis for assessing the accessibility at hierarchical levels of urban green spaces	Gupta, Kshama; Roy, Arijit; Luthra, Kanishka; Maithani, Sandeep; Mahavir	URBAN FORESTRY & URBAN GREENING	2016	56
Geospatial and geostatistical approach for groundwater potential zone delineation	Mallick, Javed; Singh, Chander Kumar; Al-Wadi, Hussein; Ahmed, Mohd; Rahman, Atiqur; Shashtri, Satyanarayan; Mukherjee, Saumitra	HYDROLOGICAL PROCESSES	2015	56
Composted Cattle Manure Increases Microbial Activity and Soil Fertility More Than Composted Swine Manure in a Submerged Rice Paddy	Das, Suvendu; Jeong, Seung Tak; Das, Subhasis; Kim, Pil Joo	FRONTIERS IN MICROBIOLOGY	2017	55
Hydrophobic Interactions Are a Key to MDM2 Inhibition by Polyphenols as Revealed by Molecular Dynamics Simulations and MM/PBSA Free Energy Calculations	Verma, Sharad; Grover, Sonam; Tyagi, Chetna; Goyal, Sukriti; Jamal, Salma; Singh, Aditi; Grover, Abhinav	PLOS ONE	2016	54
Motivations for implementing environmental management practices in Indian industries	Singh, Neelam; Jain, Suresh; Sharma, Prateek	ECOLOGICAL ECONOMICS	2015	53
Rural electricity access in South Asia: Is grid extension the remedy? A critical review	Palit, Debajit; Bandyopadhyay, Kaushik Ranjan	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	2016	52
Can Currently Available Advanced Combustion Biomass Cook-Stoves Provide Health Relevant Exposure Reductions? Results from Initial Assessment of Select Commercial Models in India	Sambandam, Sankar; Balakrishnan, Kalpana; Ghosh, Santu; Sadasivam, Arulselvan; Madhav, Satish; Ramasamy, Rengaraj; Samanta, Maitreya; Mukhopadhyay, Krishnendu; Rehman, Hafeez; Ramanathan, Veerabhadran	ECOHEALTH	2015	51
Energy and carbon footprints of sewage treatment methods	Singh, Pratima; Kansal, Arun; Carliell-Marquet, Cynthia	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2016	49
Nitrogen Fixation in Cereals	Rosenblueth, Monica; Ormeno-Orrillo, Ernesto; Lopez-Lopez, Aline; Rogel, Marco A.; Reyes-Hernandez, Blanca Jazmin; Martinez-Romero, Julio C.; Reddy, Pallavolu M.; Martinez-Romero, Esperanza	FRONTIERS IN MICROBIOLOGY	2018	48
Polyamide thin film composite membranes containing ZIF-8 for the separation of pharmaceutical compounds from aqueous streams	Basu, Subhankar; Balakrishnan, Malini	SEPARATION AND PURIFICATION TECHNOLOGY	2017	47
Energy demand and CO2 emissions from urban on-road transport in Delhi: current and future projections under various policy measures	Aggarwal, Preeti; Jain, Suresh	JOURNAL OF CLEANER PRODUCTION	2016	47
Global analysis of continental boundary layer new particle formation based on long-term measurements	Nieminen, Tuomo; Kerminen, Veli-Matti; Petaja, Tuukka; Aalto, Pasi P.; Arshinov, Mikhail; Asmi, Eija; Baltensperger, Urs; Beddows, David C. S.; Beukes, Johan Paul; Collins, Don; Ding, Aijun; Harrison, Roy M.; Henzing, Bas; Hooda, Rakesh; Hu, Min; Horrak, Urmas; Kivekas, Niku; Komsaare, Kaupo; Krejci, Radovan; Kristensson, Adam; Laakso, Lauri; Laaksonen, Ari; Leaitch, W. Richard; Lihavainen, Heikki; Mihalopoulos, Nikolaos; Nemeth, Zoltan; Nie, Wei; O'Dowd, Colin; Salma, Imre; Sellegri, Karine; Svenningsson, Birgitta; Swietlicki, Erik; Tunved, Peter; Ulevicius, Vidmantas; Vakkari, Ville; Vana, Marko; Wiedensohler, Alfred; Wu, Zhijun; Virtanen, Annele; Kulmala, Markku	ATMOSPHERIC CHEMISTRY AND PHYSICS	2018	46
Concentrating molasses distillery wastewater using biomimetic forward osmosis (FO) membranes	Singh, N.; Petrinic, I.; Helix-Nielsen, C.; Basu, S.; Balakrishnan, M.	WATER RESEARCH	2018	44
Nonribosomal Peptides from Marine Microbes and Their Antimicrobial and Anticancer Potential	Agrawal, Shivankar; Acharya, Debabrata; Adholeya, Alok; Barrow, Colin J.; Deshmukh, Sunil K.	FRONTIERS IN PHARMACOLOGY	2017	44
Applications of microalgal biofilms for wastewater treatment and bioenergy production	Miranda, Ana F.; Ramkumar, Narasimhan; Andriotis, Constandino; Hoeltkemeier, Thorben; Yasmin, Aneela; Rochfort, Simone; Wlodkowic, Donald; Morrison, Paul; Roddick, Felicity; Spangenberg, German; Lal, Banwari; Subudhi, Sanjukt; Mouradov, Aidyn	BIOTECHNOLOGY FOR BIOFUELS	2017	44
Fungal Endophyte Diversity and Bioactivity in the Indian Medicinal Plant <i>Ocimum sanctum</i> Linn	Chowdhary, Kanika; Kaushik, Nutan	PLOS ONE	2015	44
Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070	Rissman, Jeffrey; Bataille, Chris; Masanet, Eric; Aden, Nate; Morrow, William R., III; Zhou, Nan; Elliott, Neal; Dell, Rebecca; Heeren, Niko; Huckestein, Brigitta; Cresko, Joe; Miller, Sabbie A.; Roy, Joyashree; Fennell, Paul; Cremmins, Betty; Blank, Thomas Koch; Hone, David; Williams, Ellen D.; du Can, Stephane de la Rue; Sisson, Bill; Williams, Mike; Katzenberger, John; Burtraw, Dallas; Sethi, Girish; Ping, He; Danielson, David; Lu, Hongyou; Lorber, Tom; Dinkel, Jens; Helseth, Jonas	APPLIED ENERGY	2020	43

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Title of the paper	Name of Author	Title of the journal	Year of publication	Web of Science h-Index [40]
Sensitivity analysis of ground level ozone in India using WRF-CMAQ models	Sharma, Sumit; Chatani, Satoru; Mahtta, Richa; Goel, Anju; Kumar, Atul	ATMOSPHERIC ENVIRONMENT	2016	43
Hsp90: Friends, clients and natural foes	Verma, Sharad; Goyal, Sukriti; Jamal, Salma; Singh, Aditi; Grover, Abhinav	BIOCHIMIE	2016	42
Silica-Based Magnetic Manganese Nanocatalyst - Applications in the Oxidation of Organic Halides and Alcohols	Sharma, Rakesh K.; Yadav, Manavi; Monga, Yukti; Gaur, Rashmi; Adholeya, Alok; Zboril, Radek; Varma, Rajender S.; Gawande, Manoj B.	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2016	42
Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models	Krey, Volker; Guo, Fei; Kolp, Peter; Zhou, Wenji; Schaeffer, Roberto; Awasthy, Aayushi; Bertram, Christoph; de Boer, Harmen-Sytze; Fragkos, Panagiotis; Fujimori, Shinichiro; He, Chenmin; Iyer, Gokul; Keramidas, Kimon; Koberle, Alexandre C.; Oshiro, Ken; Reis, Lara Aleluia; Shoai-Tehrani, Bianca; Vishwanathan, Saritha; Capros, Pantelis; Drouet, Laurent; Edmonds, James E.; Garg, Amit; Gernaat, David E. H. J.; Jiang, Kejun; Kannavou, Maria; Kitous, Alban; Kriegler, Elmar; Luderer, Gunnar; Mathur, Ritu; Muratori, Matteo; Sano, Fuminori; van Vuuren, Detlef P.	ENERGY	2019	41
Microbial Pigments in the Food Industry-Challenges and the Way Forward	Sen, Tanuka; Barrow, Colin J.; Deshmukh, Sunil Kumar	FRONTIERS IN NUTRITION	2019	41
Mapping disaster vulnerability in India using analytical hierarchy process	Chakraborty, Anusheema; Joshi, P. K.	GEOMATICS NATURAL HAZARDS & RISK	2016	41