

# T V Ramachandra

## List of Publications by Year in descending order

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157  
papers

5,634  
citations

101543

36  
h-index

88630

70  
g-index

160  
all docs

160  
docs citations

160  
times ranked

5660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal sugar release from macroalgal feedstock with dilute acid pretreatment and enzymatic hydrolysis. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8287-8300.	4.6	3
2	Third-generation bioethanol: status, scope, and challenges. , 2022, , 295-312.		4
3	Appraisal of Environmental Health and Ecohydrology of Free-Flowing Aghanashini River, Karnataka, India. <i>Water (Switzerland)</i> , 2022, 14, 977.	2.7	2
4	Sustainable Bioeconomy prospects of diatom biorefineries in the Indian west coast. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112399.	16.4	4
5	Open degradation kinetics of organic fraction of municipal solid waste. <i>Environmental Sustainability</i> , 2021, 4, 375-384.	2.8	0
6	Scope for biodiesel and bioactive compounds production in the diatom <i>Nitzschia punctata</i> . <i>Fuel</i> , 2021, 300, 120985.	6.4	4
7	Modeling Landscape Dynamics of Policy Interventions in Karnataka State, India. <i>Journal of Geovisualization and Spatial Analysis</i> , 2021, 5, 1.	4.3	10
8	Carbon Footprint of Karnataka: Accounting of Sources and Sinks. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2021, , 53-92.	1.1	3
9	Bioethanol from macroalgae: Prospects and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109479.	16.4	104
10	Carbon Sequestration Potential of the Forest Ecosystems in the Western Ghats, a Global Biodiversity Hotspot. <i>Natural Resources Research</i> , 2020, 29, 2753-2771.	4.7	23
11	Nutrient and heavy metal composition in select biotic and abiotic components of Varthur wetlands, Bangalore, India. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	7
12	Insights of Forest Dynamics for the Regional Ecological Fragility Assessment. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 1169-1189.	2.4	2
13	Life cycle assessment of biodiesel from estuarine microalgae. <i>Energy Conversion and Management: X</i> , 2020, 8, 100065.	1.6	20
14	Dynamics of Metal Pollution in Sediment and Macrophytes of Varthur Lake, Bangalore. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 104, 411-417.	2.7	10
15	Novel biocatalyst for optimal biodiesel production from diatoms. <i>Renewable Energy</i> , 2020, 153, 919-934.	8.9	28
16	Insights into Riverscape Dynamics with the Hydrological, Ecological and Social Dimensions for Water Sustenance. <i>Current Science</i> , 2020, 118, 1379.	0.8	10
17	URBAN FOOTPRINT OF MUMBAI - THE COMMERCIAL CAPITAL OF INDIA. <i>Journal of Urban and Regional Analysis</i> , 2020, 6, .	0.3	1
18	Visualisation of impacts due to the proposed developmental projects in the ecologically fragile regions- Kodagu district, Karnataka. <i>Progress in Disaster Science</i> , 2019, 3, 100038.	2.7	12

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19	Saccharification of macroalgal polysaccharides through prioritized cellulase producing bacteria. Heliyon, 2019, 5, e01372.	3.2	22
20	Phosphorus Capture, Immobilization and Channeling Through Algae for a Sustainable Agriculture. , 2019, , 1-11.		0
21	Sustainable Management of Bannerghatta National Park, India, with the Insights in Land Cover Dynamics. FIIB Business Review, 2019, 8, 118-131.	3.1	8
22	Global Warming Mitigation Through Carbon Sequestrations in the Central Western Ghats. Remote Sensing in Earth Systems Sciences, 2019, 2, 39-63.	1.8	8
23	Geo-visualization of landscape dynamics in the proposed mega industrial corridor. Environmental Monitoring and Assessment, 2019, 191, 788.	2.7	3
24	Micro level analyses of environmentally disastrous urbanization in Bangalore. Environmental Monitoring and Assessment, 2019, 191, 787.	2.7	18
25	Energy Footprint of India: Scope for Improvements in End-Use Energy Efficiency and Renewable Energy. Environmental Footprints and Eco-design of Products and Processes, 2019, , 77-107.	1.1	4
26	Modeling urban dynamics along two major industrial corridors in India. Spatial Information Research, 2019, 27, 37-48.	2.2	18
27	Bioelectricity from sugarcane bagasse co-generation in India—An assessment of resource potential, policies and market mobilization opportunities for the case of Uttar Pradesh. Journal of Cleaner Production, 2018, 182, 1012-1023.	9.3	26
28	Algae-Based Biofertilizers: A Biorefinery Approach. Microorganisms for Sustainability, 2018, , 177-196.	0.7	16
29	Salient Ecological Sensitive Regions of Central Western Ghats, India. Earth Systems and Environment, 2018, 2, 15-34.	6.2	10
30	Green to gray: Silicon Valley of India. Journal of Environmental Management, 2018, 206, 1287-1295.	7.8	25
31	Municipal solid waste: Generation, composition and GHG emissions in Bangalore, India. Renewable and Sustainable Energy Reviews, 2018, 82, 1122-1136.	16.4	202
32	Modelling urban dynamics in rapidly urbanising Indian cities. Egyptian Journal of Remote Sensing and Space Science, 2018, 21, 201-210.	2.0	61
33	Examining the Effect of Ancillary and Derived Geographical Data on Improvement of Per-Pixel Classification Accuracy of Different Landscapes. Journal of the Indian Society of Remote Sensing, 2018, 46, 407-422.	2.4	3
34	Spatial patterns of heavy metal accumulation in sediments and macrophytes of Bellandur wetland, Bangalore. Journal of Environmental Management, 2018, 206, 1204-1210.	7.8	98
35	Quantification of annual sediment deposits for sustainable sand management in Aghanashini river estuary. Journal of Environmental Management, 2018, 206, 1263-1273.	7.8	15
36	Modelling landscape dynamics with LST in protected areas of Western Ghats, Karnataka. Journal of Environmental Management, 2018, 206, 1253-1262.	7.8	35

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37	Conservation and Sustainable Management of Local Hotspots of Biodiversity. , 2018, , 365-383.		2
38	Prioritization of prospective third-generation biofuel diatom strains. Energy, Ecology and Environment, 2018, 3, 338-354.	3.9	15
39	Simulating urban growth by two state modelling and connected network. Modeling Earth Systems and Environment, 2018, 4, 1297-1308.	3.4	10
40	Insights to bioprocess and treatment competence of urban wetlands. Journal of Environmental Management, 2018, 206, 1179-1191.	7.8	7
41	Eco-Hydrological Footprint of a River Basin in Western Ghats. Yale Journal of Biology and Medicine, 2018, 91, 431-444.	0.2	3
42	Nature and extent of unauthorized waste dump sites in and around Bangalore city. Journal of Material Cycles and Waste Management, 2017, 19, 342-350.	3.0	7
43	Urban CO <sub>2</sub> emissions in Xi'an and Bangalore by commuters: implications for controlling urban transportation carbon dioxide emissions in developing countries. Mitigation and Adaptation Strategies for Global Change, 2017, 22, 993-1019.	2.1	54
44	Economic disparity and CO <sub>2</sub> emissions: The domestic energy sector in Greater Bangalore, India. Renewable and Sustainable Energy Reviews, 2017, 67, 1331-1344.	16.4	35
45	Modelling the forest transition in Central Western Ghats, India. Spatial Information Research, 2017, 25, 117-130.	2.2	7
46	Emerging role of Geographical Information System (GIS), Life Cycle Assessment (LCA) and spatial LCA (GIS-LCA) in sustainable bioenergy planning. Bioresource Technology, 2017, 242, 218-226.	9.6	117
47	Physico-chemical and biological characterization of urban municipal landfill leachate. Environmental Pollution, 2017, 220, 1-12.	7.5	349
48	Appraisal of Forest Ecosystems Goods and Services: Challenges and Opportunities for Conservation. Journal of Biodiversity, 2017, 8, 12-33.	0.4	6
49	Energy and Food Security from Macroalgae. Journal of Biodiversity, 2017, 8, 1-11.	0.4	12
50	Functional importance of sacred forest patches in the altered landscape of Palakkad region, Kerala, India. Journal of Tropical Ecology, 2017, 33, 379-394.	1.1	4
51	GHG emissions with the mismanagement of municipal solid waste: case study of Bangalore, India. International Journal of Environment and Waste Management, 2017, 20, 346.	0.3	3
52	POLLINATOR DIVERSITY AND FORAGING DYNAMICS ON MONSOON CROP OF CUCURBITS IN A TRADITIONAL LANDSCAPE OF SOUTH INDIAN WEST COAST. Biotropia, 2017, 24, 16-27.	0.0	2
53	Algae Derived Single-Cell Proteins: Economic Cost Analysis and Future Prospects. , 2016, , 275-301.		5
54	Stimulus of developmental projects to landscape dynamics in Uttara Kannada, Central Western Ghats. Egyptian Journal of Remote Sensing and Space Science, 2016, 19, 175-193.	2.0	16

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55	Visualization of Urban Growth Pattern in Chennai Using Geoinformatics and Spatial Metrics. Journal of the Indian Society of Remote Sensing, 2016, 44, 617-633.	2.4	69
56	Geospatial analysis of forest fragmentation in Uttara Kannada District, India. Forest Ecosystems, 2016, 3, .	3.1	35
57	&lt;p>&lt;strong>Two new species of &lt;em>Nitzschia&lt;/em> (Bacillariophyta) from shallow wetlands of Peninsular India&lt;/strong>&lt;/p>. Phytotaxa, 2015, 54, 13.	0.3	12
58	Energy Trajectory in India: Challenges and Opportunities for Innovation. Journal of Resources Energy and Development, 2015, 12, 1-24.	0.2	16
59	Biofuel Production Along with Remediation of Sewage Water Through Algae. , 2015, , 33-51.		5
60	GHG footprint of major cities in India. Renewable and Sustainable Energy Reviews, 2015, 44, 473-495.	16.4	122
61	Ecohydrology of Lotic Systems in Uttara Kannada, Central Western Ghats, India. Springer Earth System Sciences, 2015, , 621-665.	0.2	7
62	Monitoring urbanization and its implications in a mega city from space: Spatiotemporal patterns and its indicators. Journal of Environmental Management, 2015, 148, 67-81.	7.8	94
63	Hydrological Responses at Regional Scale to Landscape Dynamics. Journal of Biodiversity, 2014, 5, 11-32.	0.4	4
64	Nutrient Enrichment and Proliferation of Invasive Macrophytes in Urban Lakes. Journal of Biodiversity, 2014, 5, 33-44.	0.4	3
65	Landscape dynamics modeling through integrated Markov, Fuzzy-AHP and cellular automata. , 2014, , .		10
66	Scope for distributed renewable energy systems in South India. , 2014, , .		1
67	Modelling hydrologic regime of Lakshmanatirtha watershed, Cauvery river. , 2014, , .		0
68	SPATIO-TEMPORAL DYNAMICS ALONG THE TERRAIN GRADIENT OF DIVERSE LANDSCAPE. Journal of Environmental Engineering and Landscape Management, 2014, 22, 50-63.	1.0	28
69	Urban structure in Kolkata: metrics and modelling through geo-informatics. Applied Geomatics, 2014, 6, 229-244.	2.5	58
70	Prediction of spatial patterns of urban dynamics in Pune, India. , 2014, , .		4
71	Biodiversity and ecological assessments of Indian sacred groves. Journal of Forestry Research, 2014, 25, 21-28.	3.6	27
72	Bioremediation and lipid synthesis through mixotrophic algal consortia in municipal wastewater. Bioresource Technology, 2014, 168, 142-150.	9.6	129

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73	Socio-cultural protection of endemic trees in humanised landscape. Biodiversity and Conservation, 2014, 23, 1977-1994.	2.6	14
74	Impact of Hydroelectric Projects on Commercial Bivalves in a South Indian West Coast Estuary. Journal of Biodiversity, 2014, 5, 1-9.	0.4	0
75	Carbon Footprint of the Solid Waste Sector in Greater Bangalore, India. Ecoproduction, 2014, , 265-292.	0.8	3
76	Sector-Wise Assessment of Carbon Footprint Across Major Cities in India. Ecoproduction, 2014, , 207-267.	0.8	6
77	Impact of Hydroelectric Projects on Bivalve Clams in the Sharavathi Estuary of Indian West Coast. Open Ecology Journal, 2014, 7, 52-58.	2.0	3
78	Treatment efficacy of algae-based sewage treatment plants. Environmental Monitoring and Assessment, 2013, 185, 7145-7164.	2.7	70
79	Assimilation of endmember variability in spectral mixture analysis for urban land cover extraction. Advances in Space Research, 2013, 52, 2015-2033.	2.6	6
80	Algal biofuel from urban wastewater in India: Scope and challenges. Renewable and Sustainable Energy Reviews, 2013, 21, 767-777.	16.4	86
81	Groundwater quality impairment due to mismanagement of biodegradable waste. , 2013, , .		0
82	Measuring urban sprawl in Tier II cities of Karnataka, India. , 2013, , .		6
83	Euglena sp. as a suitable source of lipids for potential use as biofuel and sustainable wastewater treatment. Journal of Applied Phycology, 2013, 25, 855-865.	2.8	127
84	Bioenergy generation from components of a Continuous algal bioreactor: Analysis of lipids, spectroscopic and thermal properties. , 2013, , .		5
85	Algorithms for feature extraction from synthetic aperture radar data. , 2013, , .		2
86	Vegetation Changes along Altitudinal Gradients in Human Disturbed Forests of Uttara Kannada, Central Western Ghats. Journal of Biodiversity, 2013, 4, 61-68.	0.4	3
87	Insights to urban dynamics through landscape spatial pattern analysis. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 329-343.	2.8	226
88	Decentralised carbon footprint analysis for opting climate change mitigation strategies in India. Renewable and Sustainable Energy Reviews, 2012, 16, 5820-5833.	16.4	53
89	A Neural Network Based Hybrid Mixture Model to Extract Information from Non-linear Mixed Pixels. Information (Switzerland), 2012, 3, 420-441.	2.9	11
90	Conservation of wetlands to mitigate urban floods. Journal of Resources Energy and Development, 2012, 9, 1-22.	0.2	12

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91	Solar Potential in the Himalayan Landscape. , 2012, 2012, 1-13.		17
92	A multi-layer perceptron based non-linear mixture model to estimate class abundance from mixed pixels. , 2011, , .		4
93	Random forest algorithm with derived geographical layers for improved classification of remote sensing data. , 2011, , .		1
94	Monitoring Tropical Urban Wetlands through Biotic Indices. Journal of Biodiversity, 2011, 2, 91-106.	0.4	8
95	Assessment of treatment capabilities of Varthur Lake, Bangalore, India. International Journal of Environmental Technology and Management, 2011, 14, 84.	0.2	38
96	Hybrid Bayesian Classifier for Improved Classification Accuracy. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 474-477.	3.1	8
97	Hotspots of solar potential in India. Renewable and Sustainable Energy Reviews, 2011, 15, 3178-3186.	16.4	227
98	The diatom genus Gomphonema Ehrenberg in India: Checklist and description of three new species. Nova Hedwigia, 2011, 93, 211-236.	0.4	17
99	Characterisation of Landscape with Forest Fragmentation Dynamics. Journal of Geographic Information System, 2011, 03, 242-253.	0.5	8
100	Ecological and socio-economic assessment of Varthur wetland, Bengaluru (India). , 2011, 53, 101-8.		3
101	Mining Land Cover Information Using Multilayer Perceptron and Decision Tree from MODIS Data. Journal of the Indian Society of Remote Sensing, 2010, 38, 592-603.	2.4	14
102	Mapping of fuelwood trees using geoinformatics. Renewable and Sustainable Energy Reviews, 2010, 14, 642-654.	16.4	12
103	Removal of hexavalent chromium using coffee husk. International Journal of Environment and Pollution, 2010, 43, 106.	0.2	27
104	A NOTE ON THE IDENTITY OF CERATONEIS IYENGARI GONZALVES & GANDHI (FRAGILARIOPHYCEAE,) Tj ET Qq 0 0 0 r BT / Overlock 10 Tf 5	1.2	6
105	Emissions from India's transport sector: Statewise synthesis. Atmospheric Environment, 2009, 43, 5510-5517.	4.1	213
106	Micro-scale anaerobic digestion of point source components of organic fraction of municipal solid waste. Waste Management, 2009, 29, 1306-1312.	7.4	57
107	RIEP: Regional integrated energy plan. Renewable and Sustainable Energy Reviews, 2009, 13, 285-317.	16.4	61
108	Milking Diatoms for Sustainable Energy: Biochemical Engineering versus Gasoline-Secreting Diatom Solar Panels. Industrial & Engineering Chemistry Research, 2009, 48, 8769-8788.	3.7	186

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109	Fusion of Multisensor Data: Review and Comparative Analysis. , 2009, , .		4
110	A Spatial Planning Support System for Managing Bangalore's Urban Sprawl. Geospatial Technology and the Role of Location in Science, 2009, , 175-190.	0.5	4
111	Using User Interface Design to Enhance Service Identification. , 2008, , .		7
112	Wetlands of Greater Bangalore, India: Automatic Delineation through Pattern Classifiers. Electronic Green Journal, 2008, 1, .	0.2	38
113	Constrained Linear Spectral Unmixing Technique for Regional Land Cover Mapping Using MODIS Data. , 2008, , 416-423.		10
114	Geographical Information System Approach for Regional Biogas Potential Assessment. Research Journal of Environmental Sciences, 2008, 2, 170-184.	0.5	19
115	Environmental audit of Municipal Solid Waste Management. International Journal of Environmental Technology and Management, 2007, 7, 369.	0.2	55
116	The Status of Bioenergy in the Sharavathi River Basin, India. Energy and Environment, 2007, 18, 591-614.	4.6	0
117	A New Frog Species from the Central Western Ghats of India, and Its Phylogenetic Position. Zoological Science, 2007, 24, 525-534.	0.7	11
118	Spatial mapping of renewable energy potential. Renewable and Sustainable Energy Reviews, 2007, 11, 1460-1480.	16.4	200
119	Bangalore. Cities, 2007, 24, 379-390.	5.6	134
120	Micro-treatment options for components of organic fraction of MSW in residential areas. Environmental Monitoring and Assessment, 2007, 135, 129-139.	2.7	26
121	Resource recovery potential from secondary components of segregated municipal solid wastes. Environmental Monitoring and Assessment, 2007, 135, 119-127.	2.7	30
122	A new species of Philautus Gistel (Amphibia: Anura: Rhacophoridae) from southern Western Ghats, India. Zootaxa, 2007, 1621, 1-16.	0.5	13
123	Cr (VI) and Fe (III) removal using Cajanus cajan husk. Journal of Environmental Biology, 2007, 28, 765-9.	0.5	10
124	Solar energy decision support system. International Journal of Sustainable Energy, 2006, 25, 33-51.	2.4	10
125	Two new fish species of the genus Schistura McClelland (Cypriniformes: Balitoridae) from Western Ghats, India. Zoos' Print Journal, 2006, 21, 2211-2216.	0.0	3
126	Fish diversity and conservation aspects in an aquatic ecosystem in northeastern India. Zoos' Print Journal, 2006, 21, 2308-2315.	0.0	24



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127	Biosorption of chromium (VI) from aqueous solutions by the husk of Bengal gram ( <i>Cicer arietinum</i> ). <i>Electronic Journal of Biotechnology</i> , 2005, 8, 258-264.	2.2	172
128	Wind energy potential mapping in Karnataka, India, using GIS. <i>Energy Conversion and Management</i> , 2005, 46, 1561-1578.	9.2	98
129	Solar energy decision support system. <i>International Journal of Sustainable Energy</i> , 2005, 24, 207-224.	2.4	14
130	Decision Support System to Assess Regional Biomass Energy Potential. <i>International Journal of Green Energy</i> , 2005, 1, 407-428.	3.8	25
131	<i>Schistura nilgiriensis</i> (Menon) in Sharavathi river Basin Western Ghats, Karnataka. <i>Zoos' Print Journal</i> , 2005, 20, 1784-1785.	0.0	1
132	Economic valuation of wetlands. <i>Journal of Environmental Biology</i> , 2005, 26, 439-47.	0.5	11
133	Bioresource status in Karnataka. <i>Renewable and Sustainable Energy Reviews</i> , 2004, 8, 1-47.	16.4	86
134	Urban sprawl: metrics, dynamics and modelling using GIS. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2004, 5, 29-39.	2.8	532
135	Spatial Decision Support System for Assessing Micro, Mini and Small Hydel Potential. <i>Journal of Applied Sciences</i> , 2004, 4, 596-604.	0.3	14
136	Urban growth analysis using spatial and temporal data. <i>Journal of the Indian Society of Remote Sensing</i> , 2003, 31, 299-311.	2.4	52
137	Wind Energy Potential in Karnataka, India. <i>Wind Engineering</i> , 2003, 27, 549-553.	1.9	18
138	Exploring possibilities of achieving sustainability in solid waste management. <i>Indian Journal of Environmental Health</i> , 2003, 45, 255-64.	0.0	6
139	A decision support system for optimal design of hydroelectric projects in Uttara Kannada. <i>Energy for Sustainable Development</i> , 2001, 5, 14-31.	4.5	2
140	Energetics in paddy cultivation in Uttara Kannada district. <i>Energy Conversion and Management</i> , 2001, 42, 131-155.	9.2	12
141	Energy requirements and conservation potential in industrial sector in Karnataka. <i>International Journal of Ambient Energy</i> , 2001, 22, 35-47.	2.5	1
142	Restoration And Management Strategies Of Wetlands In Developing Countries. <i>Electronic Green Journal</i> , 2001, 1, .	0.2	15
143	Optimal design of hydroelectric projects in Uttara Kannada, India. <i>Hydrological Sciences Journal</i> , 2000, 45, 299-314.	2.6	8
144	Present and prospective role of bioenergy in regional energy system. <i>Renewable and Sustainable Energy Reviews</i> , 2000, 4, 375-430.	16.4	58

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145	Domestic energy consumption patterns in Uttara Kannada District, Karnataka State, India. Energy Conversion and Management, 2000, 41, 775-831.	9.2	45
146	End use efficiencies in the domestic sector of Uttara Kannada District. Energy Conversion and Management, 2000, 41, 833-845.	9.2	15
147	Hydroelectric resource assessment in Uttara Kannada District, Karnataka State, India. Journal of Cleaner Production, 1999, 7, 195-211.	9.3	10
148	Natural radioactivity of Indian building materials and by-products. Applied Radiation and Isotopes, 1999, 51, 93-96.	1.5	96
149	Energy utilisation in rural industries in Karnataka. International Journal of Ambient Energy, 1998, 19, 75-92.	2.5	7
150	Potential and Prospects of Solar Energy in Uttara Kannada, District of Karnataka State, India. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 1997, 19, 945-988.	0.5	18
151	Industrial energy utilisation in Karnataka and potential savings. Energy Conversion and Management, 1997, 38, 563-599.	9.2	7
152	Wind energy potential assessment in Uttara Kannada district of Karnataka, India. Renewable Energy, 1997, 10, 585-611.	8.9	49
153	Analysis of energy utilization in the grain mill sector in Karnataka. Energy Policy, 1993, 21, 644-655.	8.8	8
154	Energy efficiencies of end-use devices in an electro-metallurgical industry: A critical study. Energy Conversion and Management, 1992, 33, 899-912.	9.2	4
155	Visualisation of landscape alterations with the proposed linear projects and their impacts on the ecology. Modeling Earth Systems and Environment, 0, , 1.	3.4	4
156	Prioritizing Wild Yeast Strains for Macroalgal Bioethanol Production. Bioenergy Research, 0, , 1.	3.9	0
157	Status and future transition of rapid urbanizing landscape in central Western Ghats - CA based approach. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-8, 69-75.	0.0	11