

Lakshmanan Elango

List of Publications by Year in descending order

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131
papers

4,923
citations

87888

38
h-index

106344

65
g-index

139
all docs

139
docs citations

139
times ranked

3207
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater quality and its suitability for drinking and agricultural use in Chithar River Basin, Tamil Nadu, India. <i>Environmental Geology</i> , 2005, 47, 1099-1110.	1.2	437
2	Major ion chemistry and identification of hydrogeochemical processes of ground water in a part of Kancheepuram district, Tamil Nadu, India. <i>Environmental Geosciences</i> , 2003, 10, 157-166.	0.6	248
3	Groundwater geochemistry and identification of hydrogeochemical processes in a hard rock region, Southern India. <i>Environmental Monitoring and Assessment</i> , 2010, 162, 123-137.	2.7	239
4	Fluoride contamination in groundwater in parts of Nalgonda District, Andhra Pradesh, India. <i>Environmental Monitoring and Assessment</i> , 2011, 172, 481-492.	2.7	192
5	Groundwater quality and its suitability for domestic and agricultural use in Tondiar river basin, Tamil Nadu, India. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 3887-3899.	2.7	176
6	Human exposure risk to heavy metals through groundwater used for drinking in an intensively irrigated river delta. <i>Applied Water Science</i> , 2017, 7, 3267-3280.	5.6	156
7	Geological and geomorphological controls on groundwater occurrence in a hard rock region. <i>Applied Water Science</i> , 2017, 7, 1377-1389.	5.6	153
8	Chapter 11 Rock-water interaction and its control on chemical composition of groundwater. <i>Developments in Environmental Science</i> , 2007, 5, 229-243.	0.5	111
9	Human Exposure Risk Assessment Due to Heavy Metals in Groundwater by Pollution Index and Multivariate Statistical Methods: A Case Study from South Africa. <i>Water (Switzerland)</i> , 2017, 9, 234.	2.7	111
10	Identification of surface water-groundwater interaction by hydrogeochemical indicators and assessing its suitability for drinking and irrigational purposes in Chennai, Southern India. <i>Applied Water Science</i> , 2014, 4, 159-174.	5.6	99
11	Fluoride in weathered rock aquifers of southern India: Managed Aquifer Recharge for mitigation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8302-8316.	5.3	98
12	Identification and evolution of hydrogeochemical processes in the groundwater environment in an area of the Palar and Cheyyar River Basins, Southern India. <i>Environmental Geology</i> , 2003, -1, 1-1.	1.2	97
13	Assessment of hydrochemistry and groundwater quality in the coastal area of South Chennai, India. <i>Arabian Journal of Geosciences</i> , 2014, 7, 2641-2653.	1.3	92
14	Influence of hydrogeochemical processes on temporal changes in groundwater quality in a part of Nalgonda district, Andhra Pradesh, India. <i>Environmental Earth Sciences</i> , 2012, 65, 1203-1213.	2.7	91
15	Characterization of mechanisms and processes of groundwater salinization in irrigated coastal area using statistics, GIS, and hydrogeochemical investigations. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2643-2660.	5.3	91
16	Cross comparison of five popular groundwater pollution vulnerability index approaches. <i>Journal of Hydrology</i> , 2015, 524, 597-613.	5.4	88
17	Spatial interpolation methods and geostatistics for mapping groundwater contamination in a coastal area. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11601-11617.	5.3	84
18	Hydrogeochemical processes and influence of seawater intrusion in coastal aquifers south of Chennai, Tamil Nadu, India. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8989-9011.	5.3	82

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19	Trace element concentrations in the groundwater of the Tamiraparani river basin, South India: Insights from human health risk and multivariate statistical techniques. <i>Chemosphere</i> , 2017, 185, 468-479.	8.2	77
20	Nutrient chemistry of groundwater in an intensively irrigated region of southern India. <i>Environmental Geology</i> , 2005, 47, 820-830.	1.2	71
21	Sources of contaminants and groundwater quality in the coastal part of a river delta. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 473-486.	3.5	71
22	Geochemical Characteristics and Groundwater Quality in the Vientiane Plain, Laos. <i>Exposure and Health</i> , 2017, 9, 89-104.	4.9	67
23	Hydrogeochemistry and its relation to groundwater level fluctuation in the Palar and Cheyyar river basins, southern India. <i>Hydrological Processes</i> , 2006, 20, 2415-2427.	2.6	61
24	Chromium and fluoride contamination in groundwater around leather tanning industries in southern India: Implications from stable isotopic ratio $^{53}\text{Cr}/^{52}\text{Cr}$, geochemical and geostatistical modelling. <i>Chemosphere</i> , 2019, 220, 943-953.	8.2	59
25	Impact of Tanning Industries on Groundwater Quality near a Metropolitan City in India. <i>Water Resources Management</i> , 2012, 26, 1747-1761.	3.9	57
26	Seawater intrusion and submarine groundwater discharge along the Indian coast. <i>Environmental Science and Pollution Research</i> , 2019, 26, 31592-31608.	5.3	52
27	Spatial and temporal variation of uranium in a shallow weathered rock aquifer in southern India. <i>Journal of Earth System Science</i> , 2011, 120, 911-920.	1.3	50
28	Geochemical and isotopic signatures for the identification of seawater intrusion in an alluvial aquifer. <i>Journal of Earth System Science</i> , 2015, 124, 1281-1291.	1.3	50
29	Hydrogeochemical processes and impact of tanning industries on groundwater quality in Ambur, Vellore district, Tamil Nadu, India. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24364-24383.	5.3	49
30	Evaluation of geogenic and anthropogenic impacts on spatio-temporal variation in quality of surface water and groundwater along Cauvery River, India. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	48
31	Geochemistry of Fluoride Rich Groundwater in a Weathered Granitic Rock Region, Southern India. <i>Water Quality, Exposure, and Health</i> , 2013, 5, 127-138.	1.5	47
32	Distribution of Iron, Manganese, Zinc and Atrazine in Groundwater in Parts of Palar and Cheyyar River Basins, South India. <i>Environmental Monitoring and Assessment</i> , 2005, 107, 115-131.	2.7	46
33	Geochemical processes controlling the groundwater quality in lower Palar river basin, southern India. <i>Journal of Earth System Science</i> , 2013, 122, 419-432.	1.3	46
34	Assessment of groundwater potential zones in Vellore district, Tamil Nadu, India using geospatial techniques. <i>Earth Science Informatics</i> , 2019, 12, 211-223.	3.2	44
35	Multi-influencing factor method for delineation of groundwater potential zones using remote sensing and GIS techniques in the western part of Perambalur district, southern India. <i>Earth Science Informatics</i> , 2020, 13, 317-332.	3.2	42
36	Occurrence of uranium in groundwater of a shallow granitic aquifer and its suitability for domestic use in southern India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 357-367.	1.5	41

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37	FIMAR: A new Fluoride Index to mitigate geogenic contamination by Managed Aquifer Recharge. <i>Chemosphere</i> , 2019, 220, 381-390.	8.2	41
38	Groundwater quality assessment and application of multivariate statistical analysis in Luvuvhu catchment, Limpopo, South Africa. <i>Journal of African Earth Sciences</i> , 2020, 171, 103967.	2.0	41
39	Three-dimensional mathematical model to simulate groundwater flow in the lower Palar River basin, southern India. <i>Hydrogeology Journal</i> , 2004, 12, 197.	2.1	38
40	Occurrence and distribution of fluoride in the groundwater of the Tamiraparani River basin, South India: a geostatistical modeling approach. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	34
41	Assessment of seawater mixing in a coastal aquifer by high resolution electrical resistivity tomography. <i>International Journal of Environmental Science and Technology</i> , 2011, 8, 483-492.	3.5	33
42	Groundwater Quality and its Hydrochemical Characteristics in a Shallow Weathered Rock Aquifer of Southern India. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 515-524.	1.5	33
43	Computation of groundwater resources and recharge in Chithar River Basin, South India. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 983-994.	2.7	32
44	Major ion signatures for identification of geochemical reactions responsible for release of fluoride from geogenic sources to groundwater and associated risk in Vaniyar River basin, Dharmapuri district, Tamil Nadu, India. <i>Environmental Earth Sciences</i> , 2015, 74, 2439-2450.	2.7	31
45	Modelling the impact of a subsurface barrier on groundwater flow in the lower Palar River basin, southern India. <i>Hydrogeology Journal</i> , 2011, 19, 917-928.	2.1	30
46	Chemical, microbial and antibiotic susceptibility analyses of groundwater after a major flood event in Chennai. <i>Scientific Data</i> , 2017, 4, 170135.	5.3	30
47	PAHs contamination in groundwater from a part of metropolitan city, India: a study based on sampling over a 10-year period. <i>Environmental Earth Sciences</i> , 2014, 71, 5113-5120.	2.7	29
48	Managed aquifer recharge by a check dam to improve the quality of fluoride-rich groundwater: a case study from southern India. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 200.	2.7	29
49	Groundwater quality zonation in a shallow weathered rock aquifer using GIS. <i>Geo-Spatial Information Science</i> , 2012, 15, 95-104.	5.3	27
50	Groundwater flow and radionuclide decay-chain transport modelling around a proposed uranium tailings pond in India. <i>Hydrogeology Journal</i> , 2012, 20, 797-812.	2.1	27
51	Assessment of effect of recharge from a check dam as a method of Managed Aquifer Recharge by hydrogeological investigations. <i>Environmental Earth Sciences</i> , 2015, 73, 5349-5361.	2.7	27
52	Groundwater Chemistry and Quality in an Intensively Cultivated River Delta. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 125-141.	1.5	24
53	Predicting future water supply-demand gap with a new reservoir, desalination plant and waste water reuse by water evaluation and planning model for Chennai megacity, India. <i>Groundwater for Sustainable Development</i> , 2018, 7, 8-19.	4.6	24
54	GIS and AHP Based Groundwater Potential Zones Delineation in Chennai River Basin (CRB), India. <i>Sustainability</i> , 2022, 14, 1830.	3.2	23

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55	Impact of recharge from a check dam on groundwater quality and assessment of suitability for drinking and irrigation purposes. <i>Arabian Journal of Geosciences</i> , 2014, 7, 3119-3129.	1.3	22
56	Hydrogeochemistry of high fluoride groundwater in hard rock aquifer in a part of Dharmapuri district, Tamil Nadu, India. <i>Geochemistry International</i> , 2015, 53, 554-564.	0.7	22
57	An integrated approach for assessment of groundwater quality in and around uranium mineralized zone, Gogi region, Karnataka, India. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	22
58	Organic micropollutants in groundwater of India—A review. <i>Water Environment Research</i> , 2020, 92, 504-523.	2.7	22
59	Long-term exposure to chromium contaminated waters and the associated human health risk in a highly contaminated industrialised region. <i>Environmental Science and Pollution Research</i> , 2021, 28, 4276-4288.	5.3	22
60	Identification of salinization by bromide and fluoride concentration in coastal aquifers near Chennai, southern India. <i>Water Science</i> , 2016, 30, 41-50.	1.6	21
61	Human health risk assessment using Monte Carlo simulations for groundwater with uranium in southern India. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112781.	6.0	21
62	Percolation pond as a method of managed aquifer recharge in a coastal saline aquifer: A case study on the criteria for site selection and its impacts. <i>Journal of Earth System Science</i> , 2017, 126, 1.	1.3	20
63	Evaluation of Impact of Climate Change on Seawater Intrusion in a Coastal Aquifer by Finite Element Modelling. <i>Journal of Climate Change</i> , 2016, 2, 111-118.	0.5	19
64	Application of geospatial techniques in delineating groundwater potential zones: a case study from South India. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	19
65	Modelling solute transport in structured soils: performance evaluation of the ADR and TRM models. <i>Mathematical and Computer Modelling</i> , 2001, 34, 433-440.	2.0	17
66	Soil and groundwater quality with reference to nitrate in a semiarid agricultural region. <i>Arabian Journal of Geosciences</i> , 2014, 7, 4683-4695.	1.3	17
67	Ex situ bioremediation method for the treatment of groundwater contaminated with PAHs. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 285-296.	3.5	17
68	An integrated study on the characterization of freshwater lens in a coastal aquifer of Southern India. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	17
69	Regional and temporal variation in minor ions in groundwater of a part of a large river delta, southern India. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 305.	2.7	17
70	Determination of distribution coefficient of uranium from physical and chemical properties of soil. <i>Chemosphere</i> , 2020, 244, 125411.	8.2	17
71	Modeling and Experimental Validation of Cashew Nut Shell Char Gasification Adopting Chemical Equilibrium Approach. <i>Energy & Fuels</i> , 2008, 22, 2070-2078.	5.1	16
72	Estimation of groundwater abstraction induced land subsidence by SBAS technique. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	16

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73	Application of Solute Transport Modeling to Study Tsunami Induced Aquifer Salinity in India. Journal of Environmental Informatics, 2010, 15, 33-41.	6.0	16
74	Spatial and Temporal Variation of Groundwater Level and its Relation to Drainage and Intrusive Rocks in a part of Nalgonda District, Andhra Pradesh, India. Journal of the Indian Society of Remote Sensing, 2014, 42, 765-776.	2.4	15
75	Policy Preferences about Managed Aquifer Recharge for Securing Sustainable Water Supply to Chennai City, India. Water (Switzerland), 2014, 6, 3739-3757.	2.7	14
76	Solute transport modelling for assessing the duration of river flow to improve the groundwater quality in an intensively irrigated deltaic region. International Journal of Environmental Science and Technology, 2017, 14, 1055-1070.	3.5	14
77	Microwave D-InSAR technique for assessment of land subsidence in Kolkata city, India. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	14
78	Use of GRACE time-series data for estimating groundwater storage at small scale. Journal of Earth System Science, 2020, 129, 1.	1.3	14
79	A geospatial approach for assessing the relation between changing land use/land cover and environmental parameters including land surface temperature of Chennai metropolitan city, India. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	13
80	Spatio-temporal analysis of rainfall, meteorological drought and response from a water supply reservoir in the megacity of Chennai, India. Journal of Earth System Science, 2021, 130, 1.	1.3	13
81	Numerical Simulation and Prediction of Groundwater Flow in a Coastal Aquifer of Southern India. Journal of Water Resource and Protection, 2015, 07, 1483-1494.	0.8	13
82	Hydrogeochemical modelling to understand the surface water-groundwater interaction around a proposed uranium mining site. Journal of Earth System Science, 2019, 128, 1.	1.3	12
83	An operational methodology for determining relevant DRASTIC factors and their relative weights in the assessment of aquifer vulnerability to contamination. Environmental Earth Sciences, 2021, 80, 1.	2.7	12
84	Finite element modelling of a heavily exploited coastal aquifer for assessing the response of groundwater level to the changes in pumping and rainfall variation due to climate change. Hydrology Research, 2016, 47, 42-60.	2.7	11
85	Spatio-Temporal Variations of Fluoride in the Groundwater of Dindigul District, Tamil Nadu, India: A Comparative Assessment Using Two Interpolation Techniques. , 2019, , 283-296.		11
86	Assessing the origin and processes controlling groundwater salinization in coastal aquifers through integrated hydrochemical, isotopic and hydrogeochemical modelling techniques. Hydrological Sciences Journal, 2021, 66, 152-164.	2.6	11
87	Mobility of major ions and nutrients in the unsaturated zone during paddy cultivation: a field study and solute transport modelling approach. Hydrological Processes, 2007, 21, 2698-2712.	2.6	10
88	Geochemical Modelling of the Effects of a Proposed Uranium Tailings Pond on Groundwater Quality. Mine Water and the Environment, 2014, 33, 110-120.	2.0	10
89	Quartz surface microtextural studies of Cauvery River sediments, Tamil Nadu, India. Arabian Journal of Geosciences, 2015, 8, 10665-10673.	1.3	9
90	Suitability of Fluoride-Contaminated Groundwater for Various Purposes in a Part of Vaniyar River Basin, Dharmapuri District, Tamil Nadu. Water Quality, Exposure, and Health, 2015, 7, 557-566.	1.5	9

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91	A box-model approach for reservoir operation during extreme rainfall events: A case study. <i>Journal of Earth System Science</i> , 2019, 128, 1.	1.3	9
92	Effect of recharge from a check dam and river bank filtration on geochemical and microbial composition of groundwater. <i>Arabian Journal of Geosciences</i> , 2015, 8, 8069-8076.	1.3	8
93	Deterioration of Groundwater Quality: Implications and Management. <i>Springer Water</i> , 2019, , 87-101.	0.3	8
94	Percolation pond with recharge shaft as a method of managed aquifer recharge for improving the groundwater quality in the saline coastal aquifer. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	8
95	Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context: Saph Pani. <i>Water Intelligence Online</i> , 2016, 15, 9781780408392-9781780408392.	0.3	8
96	Hydrochemistry and stable isotopes during salinity ingress and refreshment in surface- and groundwater from the Araniâ€“Koratallai (Aâ€“K) basin north of Chennai (India). <i>Environmental Earth Sciences</i> , 2015, 73, 7769-7780.	2.7	7
97	Quantification of groundwater recharge and river bed clogging by daily water level measurements in a check dam. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	7
98	Depth averaged modelling of loose rectangular granular piles collapsing in water. <i>Advances in Water Resources</i> , 2020, 143, 103663.	3.8	7
99	Impacts of a regional climate model projected rainfall, sea level rise, and urbanization on a coastal aquifer. <i>Environmental Science and Pollution Research</i> , 2022, 29, 33305-33322.	5.3	7
100	A discrete Boltzmann equation model for two-phase shallow granular flows. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2814-2824.	2.7	6
101	Temporal variation in export and import of virtual water through popular crop and livestock products by India. <i>Groundwater for Sustainable Development</i> , 2019, 8, 468-473.	4.6	6
102	Methods for Assessing the Groundwater Quality. , 2019, , 57-78.		6
103	Management of Coastal Groundwater Resources. , 2019, , 383-397.		6
104	Major ion correlation in groundwater of Kancheepuram Region, South India. <i>Indian Journal of Environmental Health</i> , 2003, 45, 5-10.	0.0	6
105	Geogenic and Anthropogenic Impacts on the Water Quality of Cauvery River. , 2022, , 149-170.		5
106	Estimation of natural groundwater recharge in Chennai River basin using multiple approaches. <i>Hydrological Sciences Journal</i> , 2022, 67, 1165-1184.	2.6	5
107	Geochemical evaluation of fluoride and groundwater quality for drinking and irrigation purposes in a weathered gneissic rock aquifer of southern peninsular India. <i>Environmental Earth Sciences</i> , 2022, 81, .	2.7	5
108	Delineation and quantification of groundwater resources affected by seawater intrusion along the east coast of India. <i>Environmental Earth Sciences</i> , 2022, 81, .	2.7	5

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109	Study of influence of terrain and climatic factors on groundwater-level fluctuation in a minor river basin using GIS. <i>Geo-Spatial Information Science</i> , 2011, 14, 190-197.	5.3	4
110	Managed aquifer recharge: the widening gap between law and policy in India. <i>Water Science and Technology: Water Supply</i> , 2015, 15, 1159-1165.	2.1	4
111	Hydrogeochemical Characteristics and Groundwater Quality in a Weathered Rock Aquifer in Northern Karnataka, India. <i>Geochemistry International</i> , 2018, 56, 950-960.	0.7	4
112	Impact of sea level rise and tidal effects on flux-controlled and partially isolated shallow aquifer on the southeast coast of India. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 97.	2.7	4
113	Discrete Boltzmann Equation model of polydisperse shallow granular flows. <i>International Journal of Multiphase Flow</i> , 2019, 113, 107-116.	3.4	4
114	Variations in Stable Isotopes of Oxygen and Hydrogen in Surface and Groundwater of a Managed Aquifer Recharge Site: A Case Study. <i>Journal of the Geological Society of India</i> , 2019, 93, 533-538.	1.1	4
115	Lake environments along the coast of Tamilnadu, India, delineated by IRS-IA satellite data. <i>Lakes and Reservoirs: Research and Management</i> , 1996, 2, 163-167.	0.9	3
116	Assessment of interaction between the aquifers by geochemical signatures in an urbanised coastal region of India. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	3
117	Finite element modelling to assess the submarine groundwater discharge in an over exploited multilayered coastal aquifer. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67456-67471.	5.3	3
118	Identification of management options to mitigate seawater intrusion in an overexploited multi-layered coastal aquifer by integrated rainfall runoff, surface water and density-dependent groundwater flow modeling. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	3
119	Atmospheric CO ₂ consumption by rock weathering over a five year period in a large non-perennial tropical river basin of southern India. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26461-26478.	5.3	3
120	Spatial Analysis of Soil Fertility Parameters in a Part of Nalgonda District, Andhra Pradesh, India. <i>Earth Science India</i> , 2014, 7, .	0.1	3
121	Leather processing and its possible impact on groundwater quality in Silk Road sites: a case study from Chennai, India. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	2
122	Estimation of distribution coefficient of uranium in soil by batch tests. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 263, 032016.	0.6	2
123	Regional Simulation of a Groundwater Flow in Coastal Aquifer, Tamil Nadu, India. , 2008, , 234-242.		2
124	2021 Chennai Floods – An Overview. <i>Journal of the Geological Society of India</i> , 2022, 98, 865-866.	1.1	2
125	Fluoride Contamination in Groundwater: A Pilot Study on Dug Well Recharge System for In situ Mitigation. <i>Springer Hydrogeology</i> , 2018, , 13-23.	0.3	1
126	Groundwater Environment of a Tropical East Flowing River of Western Ghats, Southern India. <i>Journal of the Geological Society of India</i> , 2018, 92, 634-644.	1.1	1

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127	Characterisation of Uranium Mining and Tailings Pond Areas by Integrated Remote Sensing, Geophysical, Geological and Hydrogeological Methods. Journal of the Geological Society of India, 2020, 95, 377-384.	1.1	1
128	Seasonal changes in dissolved trace elements and human health risk in the upper and middle reaches of the Bhavani River, southern India. Environmental Science and Pollution Research, 2022, 29, 3629-3647.	5.3	1
129	Improving Groundwater Recharge by Ventilation of Unsaturated Zone. Current Science, 2019, 116, 1914.	0.8	1
130	Assessment of Background Uranium Concentration in Groundwater Around a Proposed Mining Area. Springer Geology, 2011, , 73-80.	0.3	0
131	Modeling of Radionuclide Transport in Groundwater. , 2016, , 283-297.		0