

Prasanna Mohan Viswanathan

List of Publications by Year in descending order

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116
papers

3,114
citations

126858

33
h-index

189801

50
g-index

116
all docs

116
docs citations

116
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of major sources controlling groundwater chemistry from a hard rock terrain – A case study from Mettur taluk, Salem district, Tamil Nadu, India. <i>Journal of Earth System Science</i> , 2008, 117, 49-58.	0.6	266
2	Evaluation of water quality pollution indices for heavy metal contamination monitoring: a case study from Curtin Lake, Miri City, East Malaysia. <i>Environmental Earth Sciences</i> , 2012, 67, 1987-2001.	1.3	169
3	A study on groundwater geochemistry and water quality in layered aquifers system of Pondicherry region, southeast India. <i>Applied Water Science</i> , 2012, 2, 253-269.	2.8	123
4	Study of evaluation of groundwater in Gadilam basin using hydrogeochemical and isotope data. <i>Environmental Monitoring and Assessment</i> , 2010, 168, 63-90.	1.3	110
5	Environmental hydrogeochemistry and genesis of fluoride in groundwaters of Dindigul district, Tamilnadu (India). <i>Environmental Earth Sciences</i> , 2013, 68, 333-342.	1.3	89
6	A study on hydrochemical elucidation of coastal groundwater in and around Kalpakkam region, Southern India. <i>Environmental Earth Sciences</i> , 2011, 64, 1419-1431.	1.3	76
7	A study on the significance of lithology in groundwater quality of Madurai district, Tamil Nadu (India). <i>Environment, Development and Sustainability</i> , 2013, 15, 1365-1387.	2.7	70
8	A study on the hydrogeology and hydrogeochemistry of groundwater from different depths in a coastal aquifer: Annamalai Nagar, Tamilnadu, India. <i>Environmental Geology</i> , 2009, 57, 59-73.	1.2	69
9	Evaluation of groundwater suitability for domestic, irrigational, and industrial purposes: a case study from Thirumanimuttar river basin, Tamilnadu, India. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 405-420.	1.3	69
10	A study on hydrochemical characteristics of surface and sub-surface water in and around Perumal Lake, Cuddalore district, Tamil Nadu, South India. <i>Environmental Earth Sciences</i> , 2011, 63, 31-47.	1.3	65
11	Statistical analysis of the hydrogeochemical evolution of groundwater in hard and sedimentary aquifers system of Gadilam river basin, South India. <i>Journal of King Saud University - Science</i> , 2010, 22, 133-145.	1.6	61
12	Assessment of fluoride contaminations in groundwater of hard rock aquifers in Madurai district, Tamil Nadu (India). <i>Applied Water Science</i> , 2017, 7, 1011-1023.	2.8	54
13	A study on the mixing proportion in groundwater samples by using Piper diagram and Phreeqc model. <i>Diqui Huaxue</i> , 2011, 30, 490-495.	0.5	53
14	A study on the status of fluoride ion in groundwater of coastal hard rock aquifers of south India. <i>Arabian Journal of Geosciences</i> , 2013, 6, 4167-4177.	0.6	53
15	Statistical analysis of the hydrogeochemical evolution of groundwater in hard rock coastal aquifers of Thoothukudi district in Tamil Nadu, India. <i>Environmental Earth Sciences</i> , 2014, 71, 451-464.	1.3	53
16	A study on the high fluoride concentration in the magnesium-rich waters of hard rock aquifer in Krishnagiri district, Tamilnadu, India. <i>Arabian Journal of Geosciences</i> , 2014, 7, 273-285.	0.6	52
17	Hydrochemistry of groundwater in a coastal region and its repercussion on quality, a case study – Thoothukudi district, Tamil Nadu, India. <i>Arabian Journal of Geosciences</i> , 2014, 7, 939-950.	0.6	50
18	Assessment and Distribution of Metals Contamination in Groundwater: a Case Study of Busan City, Korea. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 219-225.	1.5	50

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19	Hydrogeochemical analysis and evaluation of groundwater quality in the Gadilam river basin, Tamil Nadu, India. <i>Journal of Earth System Science</i> , 2011, 120, 85-98.	0.6	49
20	Identification of groundwater contamination zones and its sources by using multivariate statistical approach in Thirumanimuthar sub-basin, Tamil Nadu, India. <i>Environmental Earth Sciences</i> , 2013, 68, 1783-1795.	1.3	49
21	Major ion chemistry and identification of hydrogeochemical processes controlling groundwater in and around Neyveli Lignite Mines, Tamil Nadu, South India. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3451-3467.	0.6	49
22	Assessment of hydrogeochemical status of groundwater in a coastal region of Southeast coast of India. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	48
23	Hydrogeochemical assessment of groundwater in Neyveli Basin, Cuddalore District, South India. <i>Arabian Journal of Geosciences</i> , 2011, 4, 319-330.	0.6	46
24	Study on the hydrogeochemical characteristics in groundwater, post- and pre-tsunami scenario, from Portnova to Pumpuhar, southeast coast of India. <i>Environmental Monitoring and Assessment</i> , 2010, 169, 553-568.	1.3	44
25	Metal concentrations in sediments from tourist beaches of Miri City, Sarawak, Malaysia (Borneo) <i>TJ ETQq1 1 0.784314 rgBT /Overlock</i>	2.3	44
26	Geochemical evaluation of fluoride contamination of groundwater in the Thoothukudi District of Tamilnadu, India. <i>Applied Water Science</i> , 2014, 4, 241-250.	2.8	42
27	Identification of the geochemical processes in groundwater by factor analysis in hard rock aquifers of Madurai District, South India. <i>Arabian Journal of Geosciences</i> , 2014, 7, 3767-3777.	0.6	41
28	Geochemistry of Neogene sedimentary rocks from Borneo Basin, East Malaysia: Paleo-weathering, provenance and tectonic setting. <i>Chemie Der Erde</i> , 2014, 74, 139-146.	0.8	40
29	Hydrogeochemistry and microbial contamination of groundwater from Lower Ponnaiyar Basin, Cuddalore District, Tamil Nadu, India. <i>Environmental Earth Sciences</i> , 2012, 67, 867-887.	1.3	39
30	Integrated geophysical and chemical study in the lower subbasin of Gadilam River, Tamilnadu, India. <i>Environmental Geosciences</i> , 2008, 15, 145-152.	0.6	38
31	Comprehensive studies of hydrogeochemical processes and quality status of groundwater with tools of cluster, grouping analysis, and fuzzy set method using GIS platform: a case study of Dalcheon in Ulsan City, Korea. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11209-11223.	2.7	37
32	A study on the factors affecting the stable isotopic composition in precipitation of Tamil Nadu, India. <i>Hydrological Processes</i> , 2009, 23, 1792-1800.	1.1	36
33	Significance of pCO ₂ values in determining carbonate chemistry in groundwater of Pondicherry region, India. <i>Frontiers of Earth Science</i> , 2011, 5, 197-206.	0.9	35
34	A multivariate statistical approach to identify the spatio-temporal variation of geochemical process in a hard rock aquifer. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 552.	1.3	29
35	Occurrence of Heavy Metals in Groundwater Along the Lithological Interface of K/T Boundary, Peninsular India: A Special Focus on Source, Geochemical Mobility and Health Risk. <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 80, 183-207.	2.1	29
36	Lithological and hydrochemical controls on distribution and speciation of uranium in groundwaters of hard-rock granitic aquifers of Madurai District, Tamil Nadu (India). <i>Environmental Geochemistry and Health</i> , 2016, 38, 497-509.	1.8	28

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37	Hydrogeochemical Modelling for Groundwater in Neyveli Aquifer, Tamil Nadu, India, Using PHREEQC: A Case Study. <i>Natural Resources Research</i> , 2012, 21, 311-324.	2.2	27
38	Identification of Recharge Processes in Groundwater in Hard Rock Aquifers of Madurai District Using Stable Isotopes. <i>Environmental Processes</i> , 2016, 3, 463-477.	1.7	27
39	Identification of groundwater potential zones using geospatial approach in Sivagangai district, South India. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	26
40	Study on the saturation index of the carbonates in the groundwater using WATEQ4F, in layered coastal aquifers of Pondicherry. <i>Journal of the Geological Society of India</i> , 2012, 80, 813-824.	0.5	25
41	A study on the status of saltwater intrusion in the coastal hard rock aquifer of South India. <i>Environment, Development and Sustainability</i> , 2015, 17, 443-475.	2.7	25
42	Occurrence of Uranium in Groundwater Along the Lithological Contacts in Central Tamilnadu, India: An Isotope Hydrogeochemical Perspective. <i>Exposure and Health</i> , 2019, 11, 277-290.	2.8	25
43	A study on evaluation of probable sources of heavy metal pollution in groundwater of Kalpakkam region, South India. <i>The Environmentalist</i> , 2012, 32, 371-382.	0.7	23
44	A study on variation in dissolved silica concentration in groundwater of hard rock aquifers in Southeast coast of India. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 121, 012008.	0.3	23
45	Significance of saturation index of certain clay minerals in shallow coastal groundwater, in and around Kalpakkam, Tamil Nadu, India. <i>Journal of Earth System Science</i> , 2011, 120, 897-909.	0.6	22
46	Delineation of Natural and Anthropogenic Process Controlling Hydrogeochemistry of Layered Aquifer Sequence. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2014, 84, 95-108.	0.8	22
47	A study on the defluoridation in water by using natural soil. <i>Applied Water Science</i> , 2013, 3, 741-751.	2.8	21
48	Assessment of groundwater chemistry in layered coastal aquifers using multivariate statistical analysis. <i>Sustainable Water Resources Management</i> , 2017, 3, 55-69.	1.0	20
49	Seasonal changes in groundwater quality deterioration and chemometric analysis of pollution source identification in South India. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20037-20054.	2.7	20
50	Groundwater quality assessment for irrigation by adopting new suitability plot and spatial analysis based on fuzzy logic technique. <i>Environmental Research</i> , 2022, 204, 111729.	3.7	20
51	Assessment of Metals Distribution and Microbial Contamination at Selected Lake Waters in and Around Miri City, East Malaysia. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 89, 507-511.	1.3	19
52	Occurrence of the radionuclides in groundwater of crystalline hard rock regions of central Tamil Nadu, India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1349-1355.	0.7	19
53	Influence of variations in rainfall pattern on the hydrogeochemistry of coastal groundwater—an outcome of periodic observation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 29173-29190.	2.7	18
54	Occurrence of high uranium and radon in hard rock aquifers of South India – Evaluating the temporal and spatial trends. <i>Groundwater for Sustainable Development</i> , 2015, 1, 68-77.	2.3	17

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55	A Study on the Behavior of the Dissolved Oxygen in the Shallow Coastal Wells of Cuddalore District, Tamilnadu, India. <i>Water Quality, Exposure, and Health</i> , 2012, 4, 1-16.	1.5	16
56	A study on the impact of weathering in groundwater chemistry of a hard rock aquifer. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	16
57	Groundwater quality assessment in Jirania Block, west district of Tripura, India, using hydrogeochemical fingerprints. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	16
58	A study on the interpretation of spontaneous potential and resistivity logs in layered aquifer sequence of Pondicherry Region, South India. <i>Arabian Journal of Geosciences</i> , 2014, 7, 3715-3729.	0.6	15
59	Determination of the utility of groundwater with respect to the geochemical parameters: a case study from Tuticorin District of Tamil Nadu (India). <i>Environment, Development and Sustainability</i> , 2014, 16, 689-721.	2.7	15
60	Evaluation of Metal Pollution in Groundwater in the Industrialized Environs in and Around Dindigul, Tamilnadu, India. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 307-317.	1.5	14
61	Impact of landuse on the groundwater quality along coastal aquifer of Thiruvallur district, South India. <i>Sustainable Water Resources Management</i> , 2018, 4, 849-873.	1.0	14
62	An insight on the speciation and genetical imprint of bicarbonate ion in the groundwater along K/T boundary, South India. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	13
63	A study on the arsenic concentration in groundwater of a coastal aquifer in south-east India: an integrated approach. <i>Environment, Development and Sustainability</i> , 2017, 19, 1015-1040.	2.7	12
64	Chemistry of Tender Coconut Water from the Cuddalore Coastal Region in Tamil Nadu, India. <i>Natural Resources Research</i> , 2013, 22, 91-101.	2.2	11
65	Enrichment pattern of leachable trace metals in roadside soils of Miri City, Eastern Malaysia. <i>Environmental Earth Sciences</i> , 2014, 72, 1765-1773.	1.3	11
66	Assessment of sources for higher Uranium concentration in ground waters of the Central Tamilnadu, India. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 121, 012009.	0.3	11
67	Statistical analysis of trends in monthly precipitation at the Limbang River Basin, Sarawak (NW) Tj ETQq1 1 0.784314,rgBT /Overlock 0,9 11		
68	Elemental geochemistry of surface sediments from Manakudy estuary, south-west coast of India: Inferences to sources of elements and their accumulation. <i>Geological Journal</i> , 2021, 56, 2360-2378.	0.6	11
69	Study on the Significance of Temporal Ion Chemistry in Groundwater of Dindigul District, Tamilnadu, India. <i>E-Journal of Chemistry</i> , 2011, 8, 938-944.	0.4	10
70	Optimisation of morphometric parameters of Limbang river basin, Borneo in the equatorial tropics for terrain characterisation. <i>Modeling Earth Systems and Environment</i> , 2017, 3, 1477-1490.	1.9	10
71	Dissolved Organic Carbon in Multilayered Aquifers of Pondicherry Region (India): Spatial and Temporal Variability and Relationships to Major Ion Chemistry. <i>Natural Resources Research</i> , 2017, 26, 119-135.	2.2	10
72	Chemical characteristics of rainwater in the tropical rainforest region in northwestern Borneo. <i>Environmental Science and Pollution Research</i> , 2020, 27, 36994-37010.	2.7	10

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73	Microbial contamination and its associations with major ions in shallow groundwater along coastal Tamil Nadu. <i>Environmental Geochemistry and Health</i> , 2021, 43, 1069-1088.	1.8	10
74	Mobilization and health risk assessment of fertilizer induced uranium in coastal groundwater. <i>Environmental Research</i> , 2022, 203, 111791.	3.7	10
75	Impact of monsoon shower on the hydrogeochemistry of groundwater along the lithological contact: a case study from South India. <i>Applied Water Science</i> , 2022, 12, 1.	2.8	10
76	Chemical characteristics of coastal rainwater from Puducherry to Neithavasal, Southeastern coast of India. <i>Environmental Earth Sciences</i> , 2014, 72, 557-567.	1.3	9
77	Drip water Geochemistry of Niah Great Cave, NW Borneo, Malaysia: a base line study. <i>Carbonates and Evaporites</i> , 2014, 29, 41-54.	0.4	9
78	Source governed trace metal anomalies in groundwater of foothill aquifer and its health effect. <i>Applied Water Science</i> , 2020, 10, 1.	2.8	9
79	A Novel Approach for Groundwater Budgeting Using GIS in a Part of Pondicherry Region, India. <i>Journal of Water Resource and Protection</i> , 2010, 02, 585-591.	0.3	9
80	Tidal effects on groundwater dynamics in shallow coastal aquifersâ€”southeast coast of Tamilnadu, India. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	8
81	A hydrochemical approach to estimate mountain front recharge in an aquifer system in Tamilnadu, India. <i>Acta Geochimica</i> , 2018, 37, 465-488.	0.7	8
82	Geochemical (process based) characterization of groundwater along the KT boundary of South India. <i>Chemie Der Erde</i> , 2019, 79, 62-77.	0.8	8
83	Potential interplay of Uranium with geochemical variables and mineral saturation states in groundwater. <i>Applied Water Science</i> , 2021, 11, 1.	2.8	8
84	Delineating saline and fresh water aquifers in Tuticorin of southern India by using geophysical techniques. <i>Environment, Development and Sustainability</i> , 2021, 23, 17723.	2.7	8
85	Health Risk Implication and Spatial Distribution of Radon in Groundwater Along the Lithological Contact in South India. <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 80, 308-318.	2.1	8
86	Evaluation of hydrogeochemical characteristics and the impact of weathering in seepage water collected within the sedimentary formation. <i>Acta Geochimica</i> , 2017, 36, 44-51.	0.7	7
87	Spatial and temporal variations of radon concentrations in groundwater of hard rock aquifers in Madurai district, India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 313, 603-609.	0.7	7
88	An Integrated Novel Approach to Understand the Process of Groundwater Recharge in Mountain and Riparian Zone Aquifer System of Tamil Nadu, India. <i>Aquatic Geochemistry</i> , 2019, 25, 137-159.	1.5	7
89	Seasonal hydrochemical dynamics of surface water in the Limbang River, Northern Borneoâ€”evaluating for spatial and temporal trends. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	7
90	SARS-CoV-2 phase I transmission and mutability linked to the interplay of climatic variables: a global observation on the pandemic spread. <i>Environmental Science and Pollution Research</i> , 2022, 29, 72366-72383.	2.7	7

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91	An attempt to understand the behavior of dissolved organic carbon in coastal aquifers of Pondicherry region, South India. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	6
92	Determination of the major geochemical processes of groundwater along the Cretaceous-Tertiary boundary of Trichinopoly, Tamilnadu, India. <i>Acta Geochimica</i> , 2020, 39, 760-781.	0.7	6
93	Isoscapes to address the regional precipitation trends in the equatorial region of Southeast Asia. <i>Physics and Chemistry of the Earth</i> , 2022, 127, 103159.	1.2	6
94	Monsoon Climate Impact on Drip Water Geochemistry at Niah Great Cave, NW Borneo, Malaysia: Evaluating the Spatial and Temporal Trends. <i>Journal of Climate Change</i> , 2016, 2, 89-98.	0.2	5
95	Short-term Periodic Observation of the Relationship of Climate Variables to Groundwater Quality along the KT Boundary. <i>Journal of Climate Change</i> , 2018, 4, 77-86.	0.2	5
96	Assessment of Heavy Metals Pollution and Stable Isotopic Signatures in Hard Rock Aquifers of Krishnagiri District, South India. <i>Geosciences (Switzerland)</i> , 2019, 9, 200.	1.0	5
97	Terrestrial gamma radiation dose rate mapping and influence of building materials: case study at Curtin University campus (Miri, Sarawak, Malaysia). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 328, 163-180.	0.7	5
98	Determination of vulnerable regions of SARS-CoV-2 in Malaysia using meteorology and air quality data. <i>Environment, Development and Sustainability</i> , 2022, 24, 8856-8882.	2.7	5
99	Isotopic signatures to address the groundwater recharge in coastal aquifers. <i>Marine Pollution Bulletin</i> , 2022, 174, 113273.	2.3	5
100	Source, mobilization and distribution of uranium in a complex aquifer system: a spatial and temporal evaluation using geochemical, statistics and GIS approach. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	5
101	Delineation of highland saline groundwater sources in Ba'kelalan region of NE Borneo to improve the salt-making production using geochemical and geophysical approaches. <i>Chemosphere</i> , 2022, 307, 135721.	4.2	5
102	Spatio-temporal Identification of Regions with Anomalous Values of ²²² Rn in Groundwater of Madurai District, Tamilnadu, India. <i>Environmental Processes</i> , 2014, 1, 353-367.	1.7	4
103	A study on mountain front recharge by using integrated techniques in the hard rock aquifers of southern India. <i>Environment, Development and Sustainability</i> , 2018, 20, 2243-2259.	2.7	4
104	Annual and Seasonal Rainfall Trends in an Equatorial Tropical River Basin in Malaysian Borneo. <i>Environmental Modeling and Assessment</i> , 2019, 24, 569-584.	1.2	3
105	Epiphreatic caves in Niah karst tower (NW Borneo): occurrence, morphology and hydrogeochemistry. <i>Acta Carsologica</i> , 2018, 46, .	0.3	3
106	A study on geochemistry and sources of colloidal fractions in coastal groundwater from different lithologies. <i>Journal of Earth System Science</i> , 2022, 131, 1.	0.6	3
107	Application of Statistical Techniques to Identify the Hydrogeochemical Processes in Coastal Aquifers of Pondicherry Region, Tamil Nadu. , 2016, , 251-258.		2
108	Spatial and temporal characteristics of monthly rainfall over Limbang River Basin, Northern Borneo: an evaluation through multivariate statistics. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 2333-2343.	1.9	2

#	ARTICLE	IF	CITATIONS
109	Meteorological parameters and COVID-19 spread-Russia a case study. , 2021, , 179-190.		2
110	Modelling spatial variation in erosional status and geomorphic evolution of the Limbang river basin in Northern Borneo through hypsometric analysis. Geocarto International, 2022, 37, 8520-8542.	1.7	2
111	Characterization of Coastal Aquifers in SE Coast of India. Springer Hydrogeology, 2018, , 475-495.	0.1	1
112	Recent environmental geochemical trends in water and sedimentsâ€”a framework on OSPRC. Environmental Science and Pollution Research, 2021, 28, 18421-18422.	2.7	1
113	A Comparative Study on the Arsenic Levels in Groundwaters of Gangetic Alluvium and Coastal Aquifers in India. , 2015, , 197-212.		0
114	Stable Isotopic Signatures for Hydrogeochemical Characterisation of Ground Water from Pondicherry to Nagapattinam, Tamil Nadu. , 2015, , 97-112.		0
115	Irrigation Water Quality Assessment Using Water Quality Index and GIS Technique in Pondicherry Region, South India. International Journal of Civil Environmental and Agricultural Engineering, 0, , 36-50.	0.2	0
116	A Long Term Observation of Meteorological Influence on COVID-19 Pandemic Spread in Malaysia â€” A Case Study. Journal of Climate Change, 2022, 8, 67-96.	0.2	0