Abhijit Mukherjee

List of Publications by Citations

191 papers	4,403 citations	34 h-index	60 g-index
206 ext. papers	5,498 ext. citations	4.4 avg, IF	6.07 L-index

#	Paper	IF	Citations
191	Groundwater quality and depletion in the Indo-Gangetic Basin mapped from in situ observations. *Nature Geoscience*, **2016**, 9, 762-766	18.3	245
190	Deeper groundwater chemistry and geochemical modeling of the arsenic affected western Bengal basin, West Bengal, India. *Applied Geochemistry*, **2008**, 23, 863-894	3.5	183
189	Regional hydrostratigraphy and groundwater flow modeling in the arsenic-affected areas of the western Bengal basin, West Bengal, India. *Hydrogeology Journal*, **2007**, 15, 1397-1418	3.1	145
188	Hydrogeochemical comparison and effects of overlapping redox zones on groundwater arsenic near the Western (Bhagirathi sub-basin, India) and Eastern (Meghna sub-basin, Bangladesh) margins of the Bengal Basin. *Journal of Contaminant Hydrology*, **2008**, 99, 31-48	3.9	124
187	Chemical evolution in the high arsenic groundwater of the Huhhot basin (Inner Mongolia, PR China) and its difference from the western Bengal basin (India). *Applied Geochemistry*, **2009**, 24, 1835-1851	3.5	117
186	Geologic, geomorphic and hydrologic framework and evolution of the Bengal basin, India and Bangladesh. *Journal of Asian Earth Sciences*, **2009**, 34, 227-244	2.8	114
185	FRPC reinforced concrete beam-column joints under cyclic excitation. *Composite Structures*, **2005**, 70, 185-199	5.3	112
184	Landslide hazard susceptibility mapping based on terrain and climatic factors for tropical monsoon regions. *Bulletin of Engineering Geology and the Environment*, **2000**, 58, 275-287	4	111
183	Elevated arsenic in deeper groundwater of the western Bengal basin, India: Extent and controls from regional to local scale. *Applied Geochemistry*, **2011**, 26, 600-613	3.5	109
182	Regional-scale stable isotopic signatures of recharge and deep groundwater in the arsenic affected areas of West Bengal, India. *Journal of Hydrology*, **2007**, 334, 151-161	6	108
181	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. *Water Resources Research*, **2019**, 55, 7564-7586	5.4	102
180	Assessment of arsenic exposure from groundwater and rice in Bengal Delta Region, West Bengal, India. *Water Research*, **2010**, 44, 5803-12	12.5	97
179	Groundwater systems of the Indian Sub-Continent. *Journal of Hydrology: Regional Studies*, **2015**, 4, 1-14	3.6	90
178	Hydrogeochemical contrast between brown and grey sand aquifers in shallow depth of Bengal Basin: consequences for sustainable drinking water supply. *Science of the Total Environment*, **2012**, 431, 402-12	10.2	90
177	Elevated naturally occurring arsenic in a semiarid oxidizing system, Southern High Plains aquifer, Texas, USA. *Applied Geochemistry*, **2009**, 24, 2061-2071	3.5	86
176	Groundwater rejuvenation in parts of India influenced by water-policy change implementation. *Scientific Reports*, **2017**, 7, 7453	4.9	84
175	Metal contamination at a wood preservation site: characterisation and experimental studies on remediation. *Science of the Total Environment*, **2002**, 290, 165-80	10.2	82

174	Validation of GRACE based groundwater storage anomaly using in-situ groundwater level measurements in India. *Journal of Hydrology*, **2016**, 543, 729-738	6	81
173	Hydrogeological typologies of the Indo-Gangetic basin alluvial aquifer, South Asia. *Hydrogeology Journal*, **2017**, 25, 1377-1406	3.1	78
172	Solute chemistry and arsenic fate in aquifers between the Himalayan foothills and Indian craton (including central Gangetic plain): Influence of geology and geomorphology. *Geochimica Et Cosmochimica Acta*, **2012**, 90, 283-302	5.5	72
171	Groundwater depletion causing reduction of baseflow triggering Ganges river summer drying. *Scientific Reports*, **2018**, 8, 12049	4.9	71
170	A Review of Groundwater Arsenic in the Bengal Basin, Bangladesh and India: from Source to Sink. *Current Pollution Reports*, **2015**, 1, 220-247	7.6	69
169	Benefits and Pitfalls of GRACE Data Assimilation: a Case Study of Terrestrial Water Storage Depletion in India. *Geophysical Research Letters*, **2017**, 44, 4107-4115	4.9	66
168	Influence of tectonics, sedimentation and aqueous flow cycles on the origin of global groundwater arsenic: Paradigms from three continents. *Journal of Hydrology*, **2014**, 518, 284-299	6	64
167	Combining Physically Based Modeling and Deep Learning for Fusing GRACE Satellite Data: Can We Learn From Mismatch?. *Water Resources Research*, **2019**, 55, 1179-1195	5.4	63
166	Deep urban groundwater vulnerability in India revealed through the use of emerging organic contaminants and residence time tracers. *Environmental Pollution*, **2018**, 240, 938-949	9.3	53
165	Groundwater recharge in natural dune systems and agricultural ecosystems in the Thar Desert region, Rajasthan, India. *Hydrogeology Journal*, **2010**, 18, 959-972	3.1	46
164	Mechanical Behavior of Fiber-Reinforced Polymer-Wrapped Concrete Columns□Complicating Effects. *Journal of Composites for Construction*, **2004**, 8, 97-103	3.3	41
163	Provenance and fate of arsenic and other solutes in the Chaco-Pampean Plain of the Andean foreland, Argentina: From perspectives of hydrogeochemical modeling and regional tectonic setting. *Journal of Hydrology*, **2014**, 518, 300-316	6	39
162	Plate tectonics influence on geogenic arsenic cycling: From primary sources to global groundwater enrichment. *Science of the Total Environment*, **2019**, 683, 793-807	10.2	38
161	Stable isotope (□18O and □D) dynamics of precipitation in a high altitude Himalayan cold desert and its surroundings in Indus river basin, Ladakh. *Atmospheric Research*, **2019**, 221, 46-57	5.4	36
160	Testing tubewell platform color as a rapid screening tool for arsenic and manganese in drinking water wells. *Environmental Science & Technology*, **2012**, 46, 434-40	10.3	36
159	Shallow hydrostratigraphy in an arsenic affected region of Bengal Basin: implication for targeting safe aquifers for drinking water supply. *Science of the Total Environment*, **2014**, 485-486, 12-22	10.2	35
158	In situ and satellite-based estimates of usable groundwater storage across India: Implications for drinking water supply and food security. *Advances in Water Resources*, **2019**, 126, 15-23	4.7	34
157	Brahmaputra river basin groundwater: Solute distribution, chemical evolution and arsenic occurrences in different geomorphic settings. *Journal of Hydrology: Regional Studies*, **2015**, 4, 131-153	3.6	34

156	Spatio-temporal variability of groundwater storage in India. *Journal of Hydrology*, **2017**, 544, 428-437	6	33
155	Binding interaction of pharmaceutical drug captopril with calf thymus DNA: a multispectroscopic and molecular docking study. *Journal of Luminescence*, **2017**, 190, 319-327	3.8	31
154	Spectroscopic, electrochemical and molecular docking study of the binding interaction of a small molecule 5H-naptho[2,1-f][1,2] oxathieaphine 2,2-dioxide with calf thymus DNA. *International Journal of Biological Macromolecules*, **2017**, 101, 527-535	7.9	31
153	Hydrogeochemical controls on mobilization of arsenic in groundwater of a part of Brahmaputra river floodplain, India. *Journal of Hydrology: Regional Studies*, **2015**, 4, 154-171	3.6	31
152	Modeling regional-scale groundwater arsenic hazard in the transboundary Ganges River Delta, India and Bangladesh: Infusing physically-based model with machine learning. *Science of the Total Environment*, **2020**, 748, 141107	10.2	30
151	Influence of geology on groundwater□sediment interactions in arsenic enriched tectono-morphic aquifers of the Himalayan Brahmaputra river basin. *Journal of Hydrology*, **2016**, 540, 176-195	6	29
150	Thinking about water and air to attain Sustainable Development Goals during times of COVID-19 Pandemic. *Journal of Earth System Science*, **2020**, 129, 1	1.8	29
149	Wide exposure of persistent organic pollutants (PoPs) in natural waters and sediments of the densely populated Western Bengal basin, India. *Science of the Total Environment*, **2020**, 717, 137187	10.2	27
148	Long-term groundwater recharge rates across India by in situ measurements. *Hydrology and Earth System Sciences*, **2019**, 23, 711-722	5.5	26
147	Controls on high and low groundwater arsenic on the opposite banks of the lower reaches of River Ganges, Bengal basin, India. *Science of the Total Environment*, **2018**, 645, 1371-1387	10.2	26
146	Arsenic in soil and groundwater: an overview **2007**, 3-60		26
145	Geogenic groundwater arsenic in high altitude bedrock aquifers of upper Indus river basin (UIRB), Ladakh. *Applied Geochemistry*, **2020**, 113, 104497	3.5	26
144	Occurrence, predictors and hazards of elevated groundwater arsenic across India through field observations and regional-scale AI-based modeling. *Science of the Total Environment*, **2021**, 759, 143511	10.2	26
143	Hydrogeochemical reconnaissance of arsenic cycling and possible environmental risk in hydrothermal systems of Taiwan. *Groundwater for Sustainable Development*, **2017**, 5, 1-13	6	25
142	□Cyclodextrin conjugated graphene oxide: A regenerative adsorbent for cadmium and methylene blue. *Journal of Molecular Liquids*, **2019**, 282, 606-616	6	25
141	Arsenic in Groundwater of India **2011**, 150-164		25
140	Exploration of deep terrestrial subsurface microbiome in Late Cretaceous Deccan traps and underlying Archean basement, India. *Scientific Reports*, **2018**, 8, 17459	4.9	25
139	Spatial distribution of biomass consumption as energy in rural areas of the Indo-Gangetic plain. *Biomass and Bioenergy*, **2011**, 35, 932-941	5.3	24

138	Distinguishing and estimating recharge to karst springs in snow and glacier dominated mountainous basins of the western Himalaya, India. *Journal of Hydrology*, **2017**, 550, 239-252	6	23
137	Status and management of arsenic pollution in groundwater: A comprehensive appraisal of recent global scenario, human health impacts, sustainable field-scale treatment technologies. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105203	6.8	23
136	Evaluating the uncertainty of terrestrial water budget components over High Mountain Asia. *Frontiers in Earth Science*, **2019**, 7,	3.5	22
135	Quantification of tidally-influenced seasonal groundwater discharge to the Bay of Bengal by seepage meter study. *Journal of Hydrology*, **2016**, 537, 106-116	6	22
134	pH mediated facile preparation of hydrotalcite based adsorbent for enhanced arsenite and arsenate removal: Insights on physicochemical properties and adsorption mechanism. *Journal of Molecular Liquids*, **2017**, 240, 240-252	6	21
133	Using Satellite-Based Vegetation Cover as Indicator of Groundwater Storage in Natural Vegetation Areas. *Geophysical Research Letters*, **2019**, 46, 8082-8092	4.9	20
132	Terrestrial water load and groundwater fluctuation in the Bengal Basin. *Scientific Reports*, **2017**, 7, 3872	4.9	20
131	Groundwater storage change detection from and GRACE-based estimates in major river basins across India. *Hydrological Sciences Journal*, **2020**, 65, 650-659	3.5	18
130	Contrasting controls on hydrogeochemistry of arsenic-enriched groundwater in the homologous tectonic settings of Andean and Himalayan basin aquifers, Latin America and South Asia. *Science of the Total Environment*, **2019**, 689, 1370-1387	10.2	18
129	Active Protection of Fiber-Reinforced Polymer-Wrapped Reinforced Concrete Structures Against Corrosion. *Corrosion*, **2011**, 67, 025002-1-025002-11	1.8	17
128	Hydrogeochemical behavior of arsenic-enriched groundwater in the deltaic environment: comparison between two study sites in West Bengal, India. *Journal of Contaminant Hydrology*, **2008**, 99, 22-30	3.9	17
127	Sources and processes of groundwater arsenic mobilization in upper Jhelum basin, western Himalayas. *Journal of Hydrology*, **2020**, 591, 125292	6	17
126	Socio-hydrology: A key approach for adaptation to water scarcity and achieving human well-being in large riverine islands. *Progress in Disaster Science*, **2020**, 8, 100134	7.8	17
125	Seven potential sources of arsenic pollution in Latin America and their environmental and health impacts. *Science of the Total Environment*, **2021**, 780, 146274	10.2	17
124	Arsenic fate in the Brahmaputra river basin aquifers: Controls of geogenic processes, provenance and water-rock interactions. *Applied Geochemistry*, **2019**, 107, 171-186	3.5	16
123	Security of Deep Groundwater in the Coastal Bengal Basin Revealed by Tracers. *Geophysical Research Letters*, **2018**, 45, 8241-8252	4.9	16
122	Global groundwater: from scarcity to security through sustainability and solutions **2021**, 3-20		16
121	Delineating seasonal porewater displacement on a tidal flat in the Bay of Bengal by thermal signature: Implications for submarine groundwater discharge. *Journal of Hydrology*, **2015**, 529, 1185-1197	6	15

120	Selective and multicycle removal of Cr(VI) by graphene oxide-EDTA composite: Insight into the removal mechanism and ionic interference in binary and ternary associations. *Environmental Technology and Innovation*, **2020**, 19, 100851	7	15
119	Groundwater discharge along a channelized Coastal Plain stream. *Journal of Hydrology*, **2008**, 360, 252-264		15
118	Hydrogeo-morphological influences for arsenic release and fate in the central Gangetic Basin, India. *Environmental Technology and Innovation*, **2018**, 12, 243-260	7	15
117	Theoretical and Experimental Studies of the Steady State Performance of an Orbital Rotor Low-Speed High-Torque Hydraulic Motor. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, **1996**, 210, 423-429	1.6	14
116	Impedance Control of Space Robot. *International Journal of Modelling and Simulation*, **2006**, 26, 316-322	1.5	14
115	Seasonal-to-diurnal scale isotopic signatures of tidally-influenced submarine groundwater discharge to the Bay of Bengal: Control of hydrological cycle on tropical oceans. *Journal of Hydrology*, **2019**, 571, 697-710	6	13
114	Arsenic and other toxic elements in surface and groundwater systems. *Applied Geochemistry*, **2011**, 26, 415-420	3.5	12
113	Using Tracer Tests to Assess Natural Attenuation of Contaminants along a Channelized Coastal Plain Stream. *Environmental and Engineering Geoscience*, **2005**, 11, 371-382	0.7	12
112	Delineating sources of groundwater recharge and carbon in Holocene aquifers of the central Gangetic basin using stable isotopic signatures. *Isotopes in Environmental and Health Studies*, **2019**, 55, 254-271	1.5	11
111	Groundwater Storage Variations in India. *Springer Hydrogeology*, **2018**, 49-59	0.4	11
110	Major Occurrences of Elevated Arsenic in Groundwater and Other Natural Waters **2009**, 303-350		11
109	Meltwaters dominate groundwater recharge in cold arid desert of Upper Indus River Basin (UIRB), western Himalayas. *Science of the Total Environment*, **2021**, 786, 147514	10.2	11
108	Arsenic distribution along different hydrogeomorphic zones in parts of the Brahmaputra River Valley, Assam (India). *Hydrogeology Journal*, **2017**, 25, 1153-1163	3.1	10
107	Depth-dependent groundwater response to coastal hydrodynamics in the tropical, Ganges river mega-delta front (the Sundarbans): Impact of hydraulic connectivity on drinking water vulnerability. *Journal of Hydrology*, **2019**, 575, 499-512	6	10
106	Ultrasonic guided waves for monitoring corrosion of FRP wrapped concrete structures. *Construction and Building Materials*, **2015**, 96, 690-702	6.7	10
105	Groundwater vulnerability to pesticide pollution assessment in the alluvial aquifer of Western Bengal basin, India using overlay and index method. *Chemie Der Erde*, **2020**, 80, 125601	4.3	10
104	Three decades of depth-dependent groundwater response to climate variability and human regime in the transboundary Indus-Ganges-Brahmaputra-Meghna mega river basin aquifers. *Advances in Water Resources*, **2021**, 149, 103856	4.7	10
103	Hydrological processes in glacierized high-altitude basins of the western Himalayas. *Hydrogeology Journal*, **2018**, 26, 615-628	3.1	9

102	Erosion–deposition and land use/land cover of the Brahmaputra river in Assam, India. *Journal of Earth System Science*, **2019**, 128, 1	1.8	9
101	Bond graph model of a solid oxide fuel cell with a C-field for mixture of two gas species. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2008**, 222, 247-259	1	9
100	High-Arsenic Groundwater in the Southwestern Bengal Basin Caused by a Lithologically Controlled Deep Flow System. *Geophysical Research Letters*, **2019**, 46, 13062-13071	4.9	9
99	Machine-learning-based regional-scale groundwater level prediction using GRACE. *Hydrogeology Journal*, **2021**, 29, 1027-1042	3.1	9
98	Archaeal Communities in Deep Terrestrial Subsurface Underneath the Deccan Traps, India. *Frontiers in Microbiology*, **2019**, 10, 1362	5.7	8
97	Impact of sanitation and socio-economy on groundwater fecal pollution and human health towards achieving sustainable development goals across India from ground-observations and satellite-derived nightlight. *Scientific Reports*, **2019**, 9, 15193	4.9	8
96	Development of a thermodynamically consistent kinetic model for reactions in the solid oxide fuel cell. *Computers and Chemical Engineering*, **2010**, 34, 866-877	4	8
95	Groundwater-derived contaminant fluxes along a channelized Coastal Plain stream. *Journal of Hydrology*, **2008**, 360, 265-280	6	8
94	Impact of Covid-19 Lockdown on Availability of Drinking Water in the Arsenic-Affected Ganges River Basin. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	8
93	Internal charge transfer based ratiometric interaction of anionic surfactant with calf thymus DNA bound cationic surfactant: Study I. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2016**, 152, 1-7	4.4	7
92	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. *Bulletin of the American Meteorological Society*, **2017**, 98, ES285-ES290	6.1	7
91	Groundwater faecal pollution observation in parts of Indo-Ganges–Brahmaputra river basin from in-situ measurements and satellite-based observations. *Journal of Earth System Science*, **2019**, 128, 1	1.8	7
90	A gradientless technique for optimal distribution of piezoelectric material for structural control. *International Journal for Numerical Methods in Engineering*, **2003**, 57, 1737-1753	2.4	7
89	Computation of Driving Efforts for Mechanisms and Robots Using Bond Graphs. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1991**, 113, 744-748	1.6	7
88	Achieving Sustainable Development Goal for Clean Water in India: Influence of Natural and Anthropogenic Factors on Groundwater Microbial Pollution. *Environmental Management*, **2020**, 66, 742-755	3.1	7
87	Solute exchanges between multi-depth groundwater and surface water of climatically vulnerable Gangetic delta front aquifers of Sundarbans. *Journal of Environmental Management*, **2021**, 284, 112026	7.9	7
86	Synthesis, characterization and unravelling the molecular interaction of new bioactive 4-hydroxycoumarin derivative with biopolymer: Insights from spectroscopic and theoretical aspect. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 189, 124-137	6.7	7
85	Arsenic fate in upper Indus river basin (UIRB) aquifers: Controls of hydrochemical processes, provenances and water-aquifer matrix interaction. *Science of the Total Environment*, **2021**, 795, 148734	10.2	7

84	Deciphering the effective sequestration of DNA bounded bioactive small molecule Safranin-O by non-ionic surfactant TX-114 and diminution its cytotoxicity. *Journal of Molecular Liquids*, **2019**, 289, 111116	6	6
83	Groundwater Arsenic in India: Source, Distribution, Effects and Alternate Safe Drinking Water Sources? **2015**,		6
82	Facile Synthesis of Graphene Oxide for Multicycle Adsorption of Aqueous Pb2+ in the Presence of Divalent Cations and Polyatomic Anions. *Journal of Chemical & Engineering Data*, **2018**, 63, 3465-3474	2.8	6
81	Overview of the Groundwater of South Asia. *Springer Hydrogeology*, **2018**, 3-20	0.4	6
80	Modeling and analysis of adsorptive removal of arsenite by Mg-Fe-(CO) layer double hydroxide with its application in real-life groundwater. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2019**, 54, 1318-1336	2.3	6
79	Preliminary Assessment of Arsenic Distribution in Brahmaputra River Basin of India Based on Examination of 56,180 Public Groundwater Wells **2015**, 57-64		6
78	On the rationale behind constant fuel utilization control of solid oxide fuel cells. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2009**, 223, 229-252	1	6
77	Constant Fuel Utilization Operation of a SOFC System: An Efficiency Viewpoint. *Journal of Fuel Cell Science and Technology*, **2010**, 7,		6
76	Estimation of Critical System Parameters That Affect Orbit Motor Performance Combining Simulation and Experiments. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **1999**, 121, 300-306	3.3	6
75	Using night time lights to find regional inequality in India and its relationship with economic development. *PLoS ONE*, **2020**, 15, e0241907	3.7	6
74	Arsenic Fate and Transport in the Groundwater-Soil-Plant System: An Understanding of Suitable Rice Paddy Cultivation in Arsenic Enriched Areas **2014**, 21-44		6
73	Role of aquifer media in determining the fate of polycyclic aromatic hydrocarbons in the natural water and sediments along the lower Ganges river basin. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2020**, 55, 354-373	2.3	6
72	Suitability of different growth substrates as source of nitrogen for sulfate reducing bacteria. *Biodegradation*, **2015**, 26, 415-30	4.1	5
71	Modeling and Dynamics of Epitrochoid Generated Orbital Rotary Piston LSHT Hydraulic Motor: A Bondgraph Approach. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **1996**, 118, 415-421	3.3	5
70	Bond graph modelling and simulation of spice-pounding machines fed from a photovoltaic source. *International Journal of Energy Research*, **1997**, 21, 683-694	4.5	5
69	Deep Learning-Based Forecasting of Groundwater Level Trends in India: Implications for Crop Production and Drinking Water Supply. *ACS ES&T Engineering*, **2021**, 1, 965-977		5
68	An Untold Story of Groundwater Replenishment in India: Impact of Long-Term Policy Interventions. *Springer Water*, **2019**, 205-218	0.3	4
67	Enrichment of indigenous arsenate reducing anaerobic bacteria from arsenic rich aquifer sediment of Brahmaputra river basin and their potential role in as mobilization. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2019**, 54, 635-647	2.3	4

66	Characterization of tidally influenced seasonal nutrient flux to the Bay of Bengal and its implications on the coastal ecosystem. *Hydrological Processes*, **2018**, 32, 1282-1300	3.3	4
65	Theoretical and Experimental Studies on Squeeze Film Stabilizers for Flexible Rotor-Bearing Systems Using Newtonian and Viscoelastic Lubricants. *Journal of Vibration and Acoustics, Transactions of the ASME*, **1990**, 112, 473-482	1.6	4
64	Analysis of Acoustoelastic Systems Using Modal Bond Graphs. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1990**, 112, 108-115	1.6	4
63	A Theoretical Study of Stability of a Rigid Rotor Under the Influence of Dilute Viscoelastic Lubricants. *Journal of Tribology*, **1985**, 107, 75-81	1.8	4
62	Importance of spatial and depth-dependent drivers in groundwater level modeling through machine learning		4
61	Remediation of carcinogenic arsenic by pyroaurite-based green adsorbent: isotherm, kinetic, mechanistic study, and applicability in real-life groundwater. *Environmental Science and Pollution Research*, **2020**, 27, 24982-24998	5.1	3
60	Delineation of Sedimentary Facies and Groundwater-Sea Water Disposition in an Intertidal Zone of the Bay of Bengal using GPR and VES. *Journal of Environmental and Engineering Geophysics*, **2018**, 23, 235-249	1	3
59	Potential Application of Advanced Computational Techniques in Prediction of Groundwater Resource of India. *Springer Hydrogeology*, **2018**, 643-655	0.4	3
58	Quantifying the dynamics of sub-daily to seasonal hydrological interactions of Ganges river with groundwater in a densely populated city: Implications to vulnerability of drinking water sources. *Journal of Environmental Management*, **2021**, 288, 112384	7.9	3
57	Stable isotope dynamics of groundwater interactions with Ganges river. *Hydrological Processes*, **2021**, 35,	3.3	3
56	Hydrogeochemical evolution and groundwater recharge processes in arsenic enriched area in central Gangetic plain, India. *Applied Geochemistry*, **2021**, 131, 105044	3.5	3
55	Molecular recognition of synthesized halogenated chalcone by calf thymus DNA through multispectroscopic studies and analysis the anti-cancer, anti-bacterial activity of the compounds. *Journal of Molecular Liquids*, **2021**, 337, 116504	6	3
54	Need for a Legal Framework for Groundwater Security in India. *Springer Hydrogeology*, **2018**, 687-694	0.4	2
53	Modelling of Thermometallurgical Process in A Runout Table, Part 1: A Bond Graph Approach. *International Journal of Modelling and Simulation*, **2002**, 22, 39-46	1.5	2
52	Effect of Biphase Lubricants on Dynamics of Rigid Rotors. *Journal of Lubrication Technology*, **1983**, 105, 29-38		2
51	Hydrodynamics of Groundwater Flow in the Arsenic-Affected Areas of the Gangetic West Bengal, India. *Springer Hydrogeology*, **2018**, 301-320	0.4	2
50	Implication of submarine groundwater discharge to coastal ecology of the Bay of Bengal. *Journal of Earth System Science*, **2020**, 129, 1	1.8	2
49	Socio-Hydrological Approach to Explore Groundwater–Human Wellbeing Nexus: Case Study from Sundarbans, India. *Water (Switzerland)*, **2021**, 13, 1635	3	2

48	Identification of paleochannels in and around Chandraketugarh, Ganges Delta through remote sensing techniques using fuzzy inference system. *Archaeological and Anthropological Sciences*, **2019**, 11, 839-852	1.8	2
47	Observing tidal and storm generated wave height impact on groundwater levels in a tropical delta (the Sundarbans). *Journal of Hydrology*, **2021**, 603, 126813	6	2
46	Potential Impact of Climate Change on Surface Water and Groundwater Interactions in Lower Reaches of Ganges River, India. *Springer Hydrogeology*, **2018**, 583-591	0.4	1
45	An Overview of Agricultural Pollutants and Organic Contaminants in Groundwater of India. *Springer Hydrogeology*, **2018**, 247-255	0.4	1
44	Groundwater Quality, Contamination, and Processes in Brahmaputra River Basin Aquifers. *Springer Hydrogeology*, **2018**, 291-305	0.4	1
43	Estimating Present-Day Groundwater Recharge Rates in India. *Springer Hydrogeology*, **2018**, 37-47	0.4	1
42	Erosional features identification along a recently prograding coastal barrier by ground penetrating radar facies analysis: Paradeep, Odisha, India. *Journal of Coastal Conservation*, **2019**, 23, 121-131	1.9	1
41	Tectonic-sourced groundwater arsenic in Andean foreland of Argentina. *Arsenic in the Environment Proceedings*, **2014**, 22-25		1
40	Modelling of Thermometallurgical Process in a Runout Table, Part 2: Simulation Studies on Eutectoid and 1025 CarbonSteel. *International Journal of Modelling and Simulation*, **2002**, 22, 77-85	1.5	1
39	Neural Network and Random Forest-Based Analyses of the Performance of Community Drinking Water Arsenic Treatment Plants. *Water (Switzerland)*, **2021**, 13, 3507	3	1
38	Effect of coexisting ions on adsorptive removal of arsenate by Mg-Fe-(CO) LDH: multi-component adsorption and ANN-based multivariate modeling. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2021**, 56, 572-584	2.3	1
37	Groundwater Hydrogeology **2021**, 399-407		1
36	Seasonal to Decadal Variability in Focused Groundwater and Contaminant Discharge along a Channelized Stream. *Ground Water Monitoring and Remediation*, **2021**, 41, 32-45	1.4	1
35	Global geogenic groundwater pollution **2021**, 187-213		1
34	Optimisation of laboratory arsenic analysis for groundwaters of West Bengal, India and possible water testing strategy. *International Journal of Environmental Analytical Chemistry*, **2018**, 98, 440-452	1.8	1
33	Impact of global-scale hydroclimatic patterns on surface water-groundwater interactions in the climatically vulnerable Ganges river delta of the Sundarbans. *Science of the Total Environment*, **2021**, 798, 149198	10.2	1
32	Influence of hydrogeochemical reactions along flow paths on contrasting groundwater arsenic and manganese distribution and dynamics across the Ganges River. *Chemosphere*, **2022**, 287, 132144	8.4	1
31	Groundwater sustainability and security in South Asia **2021**, 469-476		1

30	Emerging organic contaminants in global community drinking water sources and supply: A review of occurrence, processes and remediation. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107560	6.8	1
29	Geomorphological Influence on Groundwater Quality and Arsenic Distribution in Parts of Brahmaputra River Basin Adjoining Eastern Himalayas **2016**, 207-211		0
28	Groundwater Quality of Meghna River Basin Aquifers. *Springer Hydrogeology*, **2018**, 307-317	0.4	0
27	Groundwater Discharge to the Bay of Bengal: Hydrological, Societal, and Environmental Implication to the Ocean. *Springer Hydrogeology*, **2018**, 463-474	0.4	0
26	Regional-scale hydrogeochemical evolution across the arsenic-enriched transboundary aquifers of the Ganges River Delta system, India and Bangladesh.. *Science of the Total Environment*, **2022**, 153490	10.2	0
25	Shallow and deep submarine groundwater discharge to a tropical sea: Implications to coastal hydrodynamics and aquifer vulnerability. *Journal of Hydrology*, **2022**, 605, 127335	6	0
24	Transboundary groundwater of the Ganges-Brahmaputra-Meghna River delta system **2021**, 129-141		0
23	Use of machine learning and deep learning methods in groundwater **2021**, 545-557		0
22	Vulnerability of groundwater from elevated nitrate pollution across India: Insights from spatio-temporal patterns using large-scale monitoring data. *Journal of Contaminant Hydrology*, **2021**, 243, 103895	3.9	0
21	The future of groundwater science and research **2021**, 503-517		0
20	Predicting Regional-Scale Elevated Groundwater Nitrate Contamination Risk Using Machine Learning on Natural and Human-Induced Factors. *ACS ES&T Engineering*, **2022**, 2, 689-702		0
19	A review on the management of arsenic-laden spent adsorbent: Insights of global practices, process criticality, and sustainable solutions. *Environmental Technology and Innovation*, **2022**, 27, 102500	7	0
18	Influence of mass-awareness campaign on community behavior pattern changes for safe drinking water availability in a groundwater arsenic-affected area of South Asia. *Groundwater for Sustainable Development*, **2022**, 100766	6	0
17	Solute chemistry and groundwater arsenic enrichment in southern part of Brahmaputra River basin, India, adjacent to Indo-Burmese ranges. *Arsenic in the Environment Proceedings*, **2016**, 62-63		
16	The Groundwater Flow, Chemistry and Pollutant Distribution in the Bengal Basin, Bangladesh and India. *Springer Hydrogeology*, **2018**, 319-334	0.4	
15	Exploration of Groundwater-Enriched Aquifers of Central Gangetic Basin, India Using Geomorphic Signatures. *Springer Hydrogeology*, **2018**, 119-129	0.4	
14	A Study on Interaction Control through Passive Degrees of Freedom: Stability and Adaptation of Impedance Variation. *IETE Journal of Education Online*, **1993**, 34, 1-20	0.3	
13	Bond Graph Based Analysis of Repeated Systems With Nonpotential Interactions—An Application to Fluidelastic Vibration of Tube Arrays. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1990**, 112, 100-107	1.6	

12	Discussion: "The Effect of a Translating High Aspect Ratio Particle in a Plane Slider Bearing" (Languirand, M. T., and Tichy, J. A., 1983, ASME J. Lubr. Technol., 105, pp. 396–404). *Journal of Lubrication Technology*, **1983**, 105, 404-404	
11	Ganges Groundwater Interaction at Varanasi **2022**, 57-66	
10	A Critical Evaluation of the Role of Geotectonics in Groundwater Arsenic Contamination. *Springer Natural Hazards*, **2021**, 201-222	0.7
9	Identifying the arsenic-safe aquifers of the Ganges Delta: some insights into sustainable aquifer management **2019**, 627-628	
8	Adsorptive removal of arsenic by calcined Mg-Fe-(CO3) LDH: An artificial neural network model **2019**, 403-404	
7	Hydrogeochemical Evolution in the Different Shallow Aquifers of Central Gangetic Plain and Kosi Alluvial Fan and Their Implications for the Distribution of Groundwater Arsenic **2015**, 3-15	
6	Variation of arsenic in shallow aquifers of the Bengal Basin: Controlling geochemical processes. *Arsenic in the Environment Proceedings*, **2016**, 52-53	
5	Delineating sustainable low-arsenic drinking water sources in South Asia. *Arsenic in the Environment Proceedings*, **2016**, 628-629	
4	Bond Graph Modelling of a Solid Oxide Fuel Cell **2011**, 355-382	
3	Tubewell platform color. *Arsenic in the Environment Proceedings*, **2012**, 515-518	
2	Groundwater Chemistry and Arsenic Enrichment of the Ganges River Basin Aquifer Systems. *Springer Hydrogeology*, **2018**, 275-289	0.4
1	Using Oxygen-18 and Deuterium to Delineate Groundwater Recharge at Different Spatial and Temporal Scales. *Springer Transactions in Civil and Environmental Engineering*, **2021**, 303-312	0.4