

The riverâ€™s groundwater interface as a hotspot for arse

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Assessing and Managing Large-Scale Geochemical Impacts From Groundwater Replenishment With Highly Treated Reclaimed Wastewater. <i>Water Resources Research</i> , 2020, 56, e2020WR028066.	4.2	13
2	Aquifer-Scale Observations of Iron Redox Transformations in Arsenic-Impacted Environments to Predict Future Contamination. <i>Environmental Science and Technology Letters</i> , 2020, 7, 916-922.	8.7	19
3	Arsenic pollution in Quaternary sediments and water near a former gold mine. <i>Scientific Reports</i> , 2020, 10, 18458.	3.3	12
4	Co-relation of Arsenic contamination with water table fluctuations and groundwater flow dynamics: A case study in a part of Bengal basin. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-24.	3.3	4
5	Health risk assessment and source identification of groundwater arsenic contamination using agglomerative hierarchical cluster analysis in selected sites from upper Eastern parts of Punjab province, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021, 27, 999-1018.	3.4	22
6	Arsenic release and transport during oxidative dissolution of spatially-distributed sulfide minerals. <i>Journal of Hazardous Materials</i> , 2021, 409, 124651.	12.4	35
7	Reduction of iron (hydr)oxide-bound arsenate: Evidence from high depth resolution sampling of a reducing aquifer in Yinchuan Plain, China. <i>Journal of Hazardous Materials</i> , 2021, 406, 124615.	12.4	13
8	Arsenic behavior in groundwater in Hanoi (Vietnam) influenced by a complex biogeochemical network of iron, methane, and sulfur cycling. <i>Journal of Hazardous Materials</i> , 2021, 407, 124398.	12.4	31
9	Identification of iron and sulfate release processes during riverbank filtration using chemical mass balance modeling. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3583-3596.	3.4	2
10	Iron mineral transformations and their impact on As (im)mobilization at redox interfaces in As-contaminated aquifers. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 189-209.	3.9	24
11	Variability in groundwater flow and chemistry in the Mekong River alluvial aquifer (Thailand): implications for arsenic and manganese occurrence. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	4
12	Pleistocene sands of the Mississippi River Alluvial Aquifer produce the highest groundwater arsenic concentrations in southern Louisiana, USA. <i>Journal of Hydrology</i> , 2021, 595, 125995.	5.4	7
13	Arsenic in Petroleum-Contaminated Groundwater near Bemidji, Minnesota Is Predicted to Persist for Centuries. <i>Water (Switzerland)</i> , 2021, 13, 1485.	2.7	5
14	Application of Single-Particle ICP-MS to Determine the Mass Distribution and Number Concentrations of Environmental Nanoparticles and Colloids. <i>Environmental Science and Technology Letters</i> , 2021, 8, 589-595.	8.7	18
15	MnO ₂ /TiO ₂ Nanotube Array-Coated Titanium Substrates as Anodes for Electrocatalytic Oxidation of As(III) in Aqueous Solution. <i>ACS Applied Nano Materials</i> , 2021, 4, 7404-7415.	5.0	15
16	Phosphate immobilisation dynamics and interaction with arsenic sorption at redox transition zones in floodplain aquifers: Insights from the Red River Delta, Vietnam. <i>Journal of Hazardous Materials</i> , 2021, 411, 125128.	12.4	21
17	Carbon and methane cycling in arsenic-contaminated aquifers. <i>Water Research</i> , 2021, 200, 117300.	11.3	22
18	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. <i>Water Research</i> , 2021, 200, 117264.	11.3	17

#	ARTICLE	IF	CITATIONS
19	Clay-plug sediment as the locus of arsenic pollution in Holocene alluvial-plain aquifers. <i>Catena</i> , 2021, 202, 105255.	5.0	7
20	Anthropogenic Organic Pollutants in Groundwater Increase Releases of Fe and Mn from Aquifer Sediments: Impacts of Pollution Degree, Mineral Content, and pH. <i>Water (Switzerland)</i> , 2021, 13, 1920.	2.7	15
21	Microbial transformation of biogenic and abiogenic Fe minerals followed by in-situ incubations in an As-contaminated vs. non-contaminated aquifer. <i>Environmental Pollution</i> , 2021, 281, 117012.	7.5	9
22	Remote sensing of wetland evolution in predicting shallow groundwater arsenic distribution in two typical inland basins. <i>Science of the Total Environment</i> , 2022, 806, 150496.	8.0	20
23	The Importance of Groundwater in Critical Zone Science. <i>Ground Water</i> , 2022, 60, 27-34.	1.3	18
24	Predicting as Contamination Risk in Red River Delta Using Machine Learning Algorithms. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
25	Local and Global Sensitivity Analysis of a Reactive Transport Model Simulating Floodplain Redox Cycling. <i>Water Resources Research</i> , 2021, 57, e2021WR029723.	4.2	10
26	Relative importance of hydrogeochemical and hydrogeological processes on arsenic enrichment in groundwater of the Yinchuan Basin, China. <i>Applied Geochemistry</i> , 2022, 137, 105180.	3.0	6
27	Impacts of active tectonics on geogenic arsenic enrichment in groundwater in the Hetao Plain, Inner Mongolia. <i>Quaternary Science Reviews</i> , 2022, 278, 107343.	3.0	5
28	Unraveling biogeochemical complexity through better integration of experiments and modeling. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1825-1833.	3.5	8
29	Water resources in the Sebou Watershed: hydrodynamic, state and perspective. , 2021, , .		0
30	What are the dynamics of hydrometeorological parameters on peatlands during the 2019 extreme dry season?. <i>Journal of Physics: Conference Series</i> , 2022, 2165, 012003.	0.4	0
31	Surface complexation reactions in sandy porous media: Effects of incomplete mixing and mass-transfer limitations in flow-through systems. <i>Journal of Contaminant Hydrology</i> , 2022, 246, 103965.	3.3	5
32	Genesis of As in the groundwater with extremely high salinity in the Yellow River Delta, China. <i>Applied Geochemistry</i> , 2022, 139, 105229.	3.0	3
33	Advancing river corridor science beyond disciplinary boundaries with an inductive approach to catalyse hypothesis generation. <i>Hydrological Processes</i> , 2022, 36, .	2.6	7
34	Oxidative Dissolution of Arsenic-Bearing Sulfide Minerals in Groundwater: Impact of Hydrochemical and Hydrodynamic Conditions on Arsenic Release and Surface Evolution. <i>Environmental Science & Technology</i> , 2022, 56, 5049-5061.	10.0	14
35	Noble gas constraints on the fate of arsenic in groundwater. <i>Water Research</i> , 2022, 214, 118199.	11.3	4
36	Surface Flooding as a Key Driver of Groundwater Arsenic Contamination in Southeast Asia. <i>Environmental Science & Technology</i> , 2022, 56, 928-937.	10.0	25

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37	Predicting As Contamination Risk in Red River Delta using Machine Learning Algorithms. <i>Economic and Environmental Geology</i> , 2022, 55, 127-135.	0.4	0
38	Microbial Community Structure of Arsenic-Bearing Groundwater Environment in the Riverbank Filtration Zone. <i>Water (Switzerland)</i> , 2022, 14, 1548.	2.7	8
39	Effect of dam on iron species distribution and transformation in riparian zones. <i>Journal of Hydrology</i> , 2022, 610, 127869.	5.4	12
40	Arsenic through aquatic trophic levels: effects, transformations and biomagnification—a concise review. <i>Geoscience Letters</i> , 2022, 9, .	3.3	19
41	Predicting the spatial distribution of phosphorus concentration in Quaternary sedimentary aquifers using simple field parameters. <i>Applied Geochemistry</i> , 2022, 142, 105349.	3.0	11
42	Occurrence and behavior of arsenic in groundwater-aquifer system of irrigated areas. <i>Science of the Total Environment</i> , 2022, 838, 155991.	8.0	5
43	Influence of Dom and Microbes on Fe Biogeochemistry at a Riverbank Filtration Site. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
44	Environmental tracers and groundwater residence time indicators reveal controls of arsenic accumulation rates beneath a rapidly developing urban area in Patna, India. <i>Journal of Contaminant Hydrology</i> , 2022, 249, 104043.	3.3	10
45	Reclaimed Water Reuse for Groundwater Recharge: A Review of Hot Spots and Hot Moments in the Hyporheic Zone. <i>Water (Switzerland)</i> , 2022, 14, 1936.	2.7	3
46	Quantifying the impacts of groundwater abstraction on Ganges river water infiltration into shallow aquifers under the rapidly developing city of Patna, India. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101133.	2.4	4
47	Arsenic contamination and potential health risk to primary school children through drinking water sources. <i>Human and Ecological Risk Assessment (HERA)</i> , 2023, 29, 369-389.	3.4	5
48	Genome-Resolved Metagenomic Analysis of Groundwater: Insights into Arsenic Mobilization in Biogeochemical Interaction Networks. <i>Environmental Science & Technology</i> , 2022, 56, 10105-10119.	10.0	25
49	Effect of oxidation on the release of multiple metals from industrially polluted sediments and synchrotron-based evidence of Cu–S dynamic association. <i>Journal of Soils and Sediments</i> , 0, , .	3.0	0
50	Molybdenum Release Triggered by Dolomite Dissolution: Experimental Evidence and Conceptual Model. <i>Environmental Science & Technology</i> , 0, , .	10.0	1
51	Abundant Fe(III) Oxide-Bound Arsenic and Depleted Mn Oxides Facilitate Arsenic Enrichment in Groundwater From a Sand-Gravel Confined Aquifer. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	4
52	Contribution of sedimentary organic matter to arsenic mobilization along a potential natural reactive barrier (NRB) near a river: The Meghna river, Bangladesh. <i>Chemosphere</i> , 2022, 308, 136289.	8.2	8
53	Influence of Dom and Microbes on Fe Biogeochemistry at a Riverbank Filtration Site. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
54	Influence of DOM and microbes on Fe biogeochemistry at a riverbank filtration site. <i>Environmental Research</i> , 2023, 216, 114430.	7.5	9

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55	Predictive geospatial model for arsenic accumulation in Holocene aquifers based on interactions of oxbow-lake biogeochemistry and alluvial geomorphology. <i>Science of the Total Environment</i> , 2023, 856, 158952.	8.0	4
56	Arsenic Adsorption and Desorption in Various Aqueous Media in the Nearshore Zone and Influencing Factors. <i>Sustainability</i> , 2022, 14, 10935.	3.2	4
57	Reconstructing Earth's atmospheric oxygenation history using machine learning. <i>Nature Communications</i> , 2022, 13, .	12.8	19
58	Occurrences, transport drivers, and risk assessments of antibiotics in typical oasis surface and groundwater. <i>Water Research</i> , 2022, 225, 119138.	11.3	30
59	Rapid photooxidation and removal of As(III) from drinking water using Fe-Mn composite oxide. <i>Water Research</i> , 2022, 226, 119297.	11.3	10
60	4D nanoprinted sensor for facile organo-arsenic detection: A two-photon lithography-based approach. <i>Chemical Engineering Journal</i> , 2023, 454, 140130.	12.7	12
61	The potential ecological risks and bioavailability of heavy metals in the sediments of Lake Baiyangdian. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2022, 34, 1980-1992.	0.8	0
62	Response of groundwater quality to river-aquifer interactions during managed aquifer recharge: A reactive transport modeling analysis. <i>Journal of Hydrology</i> , 2023, 616, 128847.	5.4	7
63	The response patterns of riverbank to the components carried by different pollution sources in the river: Experiments and models. <i>Journal of Hydrology</i> , 2023, 617, 128903.	5.4	3
64	Hotspots of geogenic arsenic and manganese contamination in groundwater of the floodplains in lowland Amazonia (South America). <i>Science of the Total Environment</i> , 2023, 860, 160407.	8.0	4
65	Impact of Pressure on Arsenic Released from Pore Water in Clayey Sediment. <i>Toxics</i> , 2022, 10, 738.	3.7	0
66	Hydrologic Control on Arsenic Cycling at the Groundwater-Surface Water Interface of a Tidal Channel. <i>Environmental Science & Technology</i> , 2023, 57, 222-230.	10.0	8
67	Advancing measurements and representations of subsurface heterogeneity and dynamic processes: towards 4D hydrogeology. <i>Hydrology and Earth System Sciences</i> , 2023, 27, 255-287.	4.9	10
68	Effects of Ammonium and COD on Fe and Mn Release from RBF Sediment Based on Column Experiment. <i>Water (Switzerland)</i> , 2023, 15, 120.	2.7	1
69	Distribution and risk assessment of antibiotics under water level fluctuation in the riparian zone of the Hanjiang River. <i>Ecotoxicology and Environmental Safety</i> , 2023, 256, 114833.	6.0	3
70	Structure, stability, and potential function of groundwater microbial community responses to permafrost degradation on varying permafrost of the Qinghai-Tibet Plateau. <i>Science of the Total Environment</i> , 2023, 875, 162693.	8.0	2
71	Natural arsenic-rich spring waters discharging from the Austin Chalk, North-Central Texas, USA: Mineral and chemical evidence of pyrite oxidation followed by reductive dissolution of neo-formed Fe(III) oxides/oxyhydroxides. <i>Applied Geochemistry</i> , 2023, 150, 105547.	3.0	0
72	Dissolved Organic Matter Sources in High Arsenic Groundwater From a Sand-Gravel Confined Aquifer. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2023, 128, .	3.0	5

#	ARTICLE	IF	CITATIONS
73	Sulfate reduction accelerates groundwater arsenic contamination even in aquifers with abundant iron oxides. , 2023, 1, 151-165.		8
74	å©é1...æ²é·jæ±ÿæ...é“æ¹jåœ°åœ°ä,æ°´ç·çš,,æ—¶ç ©²å¹å¹fç%¹å³/4ååæžšå¹ææœ²ç†. Diqiu Kexue - Zhongguo Dizhi Daxue Xuebao/Earth and Planetary Science Letters, 2022, 47, 4161.	0.5	1
75	Paleo-Geomorphology Determines Spatial Variability of Geogenic Ammonium Concentration in Quaternary Aquifers. Environmental Science & Technology, 2023, 57, 5726-5738.	10.0	6
76	Degradation of phosphorus-containing natural organic matter facilitates enrichment of geogenic phosphorus in Quaternary aquifer systems: A molecular perspective. Journal of Hydrology, 2023, 620, 129513.	5.4	5
77	ROS production upon groundwater oxygenation: Implications of oxidative capacity during groundwater abstraction and discharging. Journal of Hydrology, 2023, 620, 129551.	5.4	3
78	Large-scale arsenic mobilization from legacy sources in anoxic aquifers: Multiple methods and multi-decadal perspectives. Science of the Total Environment, 2023, 892, 164565.	8.0	1
79	Co-occurrence of arsenic and iodine in the middle-deep groundwater of the Datong Basin: From the perspective of optical properties and isotopic characteristics. Environmental Pollution, 2023, 329, 121686.	7.5	2
80	Sources and enrichment processes of groundwater arsenite and arsenate in fissured bedrock aquifers in the Xunhua-Hualong basin, China. Applied Geochemistry, 2023, 155, 105708.	3.0	0
81	Risks of nutrients and metal(loid)s mobilization triggered by groundwater recharge containing reactive organic matter. Journal of Hydrology, 2023, 623, 129780.	5.4	2
82	Arsenic transformation and redistribution in groundwater induced by the complex geochemical cycling of iron and sulfur. Science of the Total Environment, 2023, 894, 164941.	8.0	4
83	Environmental arsenic (As) and its potential relationship with endemic disease in southwestern China. Journal of Environmental Sciences, 2024, 139, 46-59.	6.1	2
84	A Novel Mn- and Fe-Oxides-Reducing Bacterium with High Activity to Drive Mobilization and Release of Arsenic from Soils. Water (Switzerland), 2023, 15, 2337.	2.7	1
86	Transformation of dissolved organic matter and related arsenic mobility at a surface water-groundwater interface in the Hetao Basin, China. Environmental Pollution, 2023, 334, 122202.	7.5	0
87	Release of arsenic during riverbank filtration under anoxic conditions linked to grain size of riverbed sediments. Science of the Total Environment, 2023, 900, 165858.	8.0	1
88	Assessment of the spatial association between multiple pollutants of surface water and digestive cancer incidence in China: A novel application of spatial machine learning. Ecological Indicators, 2023, 154, 110897.	6.3	0
89	Spatial and seasonal controls on dissolved organic matter composition in shallow aquifers under the rapidly developing city of Patna, India. Science of the Total Environment, 2023, 903, 166208.	8.0	0
90	Investigating key drivers of N2O emissions in heterogeneous riparian sediments: Reactive transport modeling and statistical analysis. Science of the Total Environment, 2023, 905, 166930.	8.0	0
91	Source apportionment and specific-source-site risk of quinolone antibiotics for effluent-receiving urban rivers and groundwater in a city, China. Journal of Environmental Sciences, 2024, 144, 185-198.	6.1	0

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93	Seasonal variations in spatial distribution, mobilization kinetic and toxicity risk of arsenic in sediments of Lake Taihu, China. <i>Journal of Hazardous Materials</i> , 2024, 463, 132852.	12.4	1
94	Redox trapping of arsenic in hyporheic zones modified by silicate weathering beneath floodplains. <i>Applied Geochemistry</i> , 2023, 159, 105831.	3.0	1
95	Sulfite activation of Fe-Mn bimetallic oxides for rapid oxidative removal of As(III) in water: Involvement of active Mn(III). <i>Chemical Engineering Journal</i> , 2024, 479, 147539.	12.7	3
96	Spatiotemporal Evolution of Riparian Redox Zonation in Response to River Stage Fluctuation and Dynamic Biofilm Growth. <i>Water Resources Research</i> , 2023, 59, .	4.2	0
97	Impact of rainfed agriculture on spatio-temporal patterns of water balance and the interaction between groundwater and surface water in sub-humid plains. <i>Science of the Total Environment</i> , 2024, 912, 169247.	8.0	0
98	Seasonal controls on stream metal(loid) signatures in mountainous discontinuous permafrost. <i>Science of the Total Environment</i> , 2024, 908, 167999.	8.0	1
99	Diverse sedimentary organic matter within the river-aquifer interface drives arsenic mobility along the Meghna River Corridor in Bangladesh. <i>Applied Geochemistry</i> , 2024, 161, 105883.	3.0	0
100	A Critical Review of Groundwater Table Fluctuation: Formation, Effects on Multifields, and Contaminant Behaviors in a Soil and Aquifer System. <i>Environmental Science & Technology</i> , 2024, 58, 2185-2203.	10.0	0
101	Insights into biogeochemistry and hot spots distribution characteristics of redox-sensitive elements in the hyporheic zone: Transformation mechanisms and contributing factors. <i>Science of the Total Environment</i> , 2024, 918, 170587.	8.0	0
102	Ammonium-Enhanced Arsenic Mobilization from Aquifer Sediments. <i>Environmental Science & Technology</i> , 0, , .	10.0	0
103	Arsenic Mobilization from Thawing Permafrost. <i>ACS Earth and Space Chemistry</i> , 2024, 8, 745-759.	2.7	0