Yan Zheng

List of Publications by Year
in descending order

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119 papers	8,187 citations	47006 47 h-index	48315 88 g-index
121 all docs	121 docs citations	121 times ranked	6819 citing authors

#	Article	IF	Citations
1	A critical review of on-site inorganic arsenic screening methods. Journal of Environmental Sciences, 2023, 125, 453-469.	6.1	10
2	Occurrence and distribution of antibiotics in groundwater, surface water, and sediment in Xiong'an New Area, China, and their relationship with antibiotic resistance genes. Science of the Total Environment, 2022, 807, 151011.	8.0	47
3	In situ arsenic immobilisation for coastal aquifers using stimulated iron cycling: Lab-based viability assessment. Applied Geochemistry, 2022, 136, 105155.	3.0	7
4	Efficient Atmospheric Transport of Microplastics over Asia and Adjacent Oceans. Environmental Science & Technology, 2022, 56, 6243-6252.	10.0	33
5	Crab bioturbation drives coupled iron-phosphate-sulfide cycling in mangrove and salt marsh soils. Geoderma, 2022, 424, 115990.	5.1	20
6	Predicting Dynamic Riverine Nitrogen Export in Unmonitored Watersheds: Leveraging Insights of AI from Data-Rich Regions. Environmental Science & Technology, 2022, 56, 10530-10542.	10.0	13
7	Perchlorate adsorption onto epichlorohydrin crosslinked chitosan hydrogel beads. Science of the Total Environment, 2021, 761, 143236.	8.0	27
8	Reduction of iron (hydr)oxide-bound arsenate: Evidence from high depth resolution sampling of a reducing aquifer in Yinchuan Plain, China. Journal of Hazardous Materials, 2021, 406, 124615.	12.4	13
9	Persistent arsenateâ€“iron(<scp>iii</scp>) oxyhydroxideâ€“organic matter nanoaggregates observed in coal. Environmental Science: Nano, 2021, 8, 2964-2975.	4.3	7
10	Abundance and mobility of metal(loid)s in reservoir sediments of Singe Tsangpo and Yarlung Tsangpo in Tibet, China: Implications for ecological risk. Environmental Geochemistry and Health, 2021, 43, 3213-3228.	3.4	8
11	Simple pre-treatment by low-level oxygen plasma activates screen-printed carbon electrode: Potential for mass production. Applied Surface Science, 2021, 544, 148760.	6.1	19
12	Hillslopes in Headwaters of Qinghaiâ€Tibetan Plateau as Hotspots for Subsurface Dissolved Organic Carbon Processing During Permafrost Thaw. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006222.	3.0	8
13	Metagenomic and viromic data mining reveals viral threats in biologically treated domestic wastewater. Environmental Science and Ecotechnology, 2021, 7, 100105.	13.5	23
14	Fabrication, Characterization and Performance Evaluation of Screen-printed Carbon Electrodes: Determination of Acetaminophen in Tylenol. Chinese Journal of Analytical Chemistry, 2021, 49, e21187-e21196.	1.7	8
15	Redox-dependent biotransformation of sulfonamide antibiotics exceeds sorption and mineralization: Evidence from incubation of sediments from a reclaimed water-affected river. Water Research, 2021, 205, 117616.	11.3	24
16	Spectroscopic and molecular-level characteristics of dissolved organic matter in the Pearl River Estuary, South China. Science of the Total Environment, 2020, 710, 136307.	8.0	42
17	Early exposure to environmental levels of sulfamethoxazole triggers immune and inflammatory response of healthy zebrafish larvae. Science of the Total Environment, 2020, 703, 134724.	8.0	49
18	Effects of dam construction on arsenic mobility and transport in two large rivers in Tibet, China. Science of the Total Environment, 2020, 741, 140406.	8.0	21

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19	Redox Dependent Arsenic Occurrence and Partitioning in an Industrial Coastal Aquifer: Evidence from High Spatial Resolution Characterization of Groundwater and Sediments. Water (Switzerland), 2020, 12, 2932.	2.7	12
20	Dietary exposure to arsenic and human health risks in western Tibet. Science of the Total Environment, 2020, 731, 138840.	8.0	30
21	Reduction in drinking water arsenic exposure and health risk through arsenic treatment among private well households in Maine and New Jersey, USA. Science of the Total Environment, 2020, 738, 139683.	8.0	13
22	Global solutions to a silent poison. Science, 2020, 368, 818-819.	12.6	66
23	Improve private well testing outreach efficiency by targeting households based on proximity to a high arsenic well. Science of the Total Environment, 2020, 738, 139689.	8.0	3
24	Dissolved organic matter characteristics in soils of tropical legume and non-legume tree plantations. Soil Biology and Biochemistry, 2020, 148, 107880.	8.8	52
25	Specific Types and Adaptability Evaluation of Managed Aquifer Recharge for Irrigation in the North China Plain. Water (Switzerland), 2020, 12, 562.	2.7	5
26	Machine Learning Models of Groundwater Arsenic Spatial Distribution in Bangladesh: Influence of Holocene Sediment Depositional History. Environmental Science & Technology, 2020, 54, 9454-9463.	10.0	51
27	Determination of Sulfamethoxazole Degradation Rate by an in Situ Experiment in a Reducing Alluvial Aquifer of the North China Plain. Environmental Science & Technology, 2019, 53, 10620-10628.	10.0	16
28	The Waterâ€“Energy Nexus of Megacities Extends Beyond Geographic Boundaries: A Case of Beijing. Environmental Engineering Science, 2019, 36, 778-788.	1.6	18
29	Development of fresh groundwater lens in coastal reclaimed islands. Journal of Hydrology, 2019, 573, 365-375.	5.4	15
30	Comparative case study of legislative attempts to require private well testing in New Jersey and Maine. Environmental Science and Policy, 2018, 85, 40-46.	4.9	9
31	Dissolved fulvic acids from a high arsenic aquifer shuttle electrons to enhance microbial iron reduction. Science of the Total Environment, 2018, 615, 1390-1395.	8.0	70
32	Hydrological buffering during groundwater acidification in rapidly industrializing alluvial plains. Journal of Contaminant Hydrology, 2018, 218, 19-33.	3.3	6
33	Health protective behavior following required arsenic testing under the New Jersey Private Well Testing Act. International Journal of Hygiene and Environmental Health, 2018, 221, 929-940.	4.3	21
34	Evidence of decoupling between arsenic and phosphate in shallow groundwater of Bangladesh and potential implications. Applied Geochemistry, 2017, 77, 167-177.	3.0	25
35	Reversible adsorption and flushing of arsenic in a shallow, Holocene aquifer of Bangladesh. Applied Geochemistry, 2017, 77, 142-157.	3.0	41
36	Evaluation of arsenic sorption and mobility in stream sediment and hot spring deposit in three drainages of the Tibetan Plateau. Applied Geochemistry, 2017, 77, 89-101.	3.0	19

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37	Behavioral Determinants of Switching to Arsenic-Safe Water Wells. Health Education and Behavior, 2017, 44, 92-102.	2.5	12
38	Photoisomerization of waterborne polyurethane with side-chained phenylazonaphthalene group. Polymer Bulletin, 2017, 74, 3109-3121.	3.3	3
39	Lessons Learned from Arsenic Mitigation among Private Well Households. Current Environmental Health Reports, 2017, 4, 373-382.	6.7	19
40	The Case for Universal Screening of Private Well Water Quality in the U.S. and Testing Requirements to Achieve It: Evidence from Arsenic. Environmental Health Perspectives, 2017, 125, 085002.	6.0	59
41	Arsenic in private well water part 2 of 3: Who benefits the most from traditional testing promotion?. Science of the Total Environment, 2016, 562, 1010-1018.	8.0	25
42	Arsenic in private well water part 1 of 3: Impact of the New Jersey Private Well Testing Act on household testing and mitigation behavior. Science of the Total Environment, 2016, 562, 999-1009.	8.0	48
43	Sediment Core Sectioning and Extraction of Pore Waters under Anoxic Conditions. Journal of Visualized Experiments, 2016, , .	0.3	1
44	Recharge of lowâ€arsenic aquifers tapped by community wells in Araihazar, Bangladesh, inferred from environmental isotopes. Water Resources Research, 2016, 52, 3324-3349.	4.2	19
45	Arsenic in private well water part 3 of 3: Socioeconomic vulnerability to exposure in Maine and New Jersey. Science of the Total Environment, 2016, 562, 1019-1030.	8.0	57
46	Dissolved Organic Matter Quality in a Shallow Aquifer of Bangladesh: Implications for Arsenic Mobility. Environmental Science & Technology, 2015, 49, 10815-10824.	10.0	143
47	Synthesis and Photochromism Properties of Anionic Waterborne Polyurethane Containing Azobenzene Chromophores. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 942-949.	2.2	15
48	Redox zonation and oscillation in the hyporheic zone of the Ganges-Brahmaputra-Meghna Delta: Implications for the fate of groundwater arsenic during discharge. Applied Geochemistry, 2015, 63, 647-660.	3.0	40
49	At the crossroads: Hazard assessment and reduction of health risks from arsenic in private well waters of the northeastern United States and Atlantic Canada. Science of the Total Environment, 2015, 505, 1237-1247.	8.0	47
50	Dissemination of well water arsenic results to homeowners in Central Maine: Influences on mitigation behavior and continued risks for exposure. Science of the Total Environment, 2015, 505, 1282-1290.	8.0	50
51	Influences on domestic well water testing behavior in a Central Maine area with frequent groundwater arsenic occurrence. Science of the Total Environment, 2015, 505, 1274-1281.	8.0	79
52	Flow and sorption controls of groundwater arsenic in individual boreholes from bedrock aquifers in central Maine, USA. Science of the Total Environment, 2015, 505, 1291-1307.	8.0	22
53	Heterogeneous arsenic enrichment in meta-sedimentary rocks in central Maine, United States. Science of the Total Environment, 2015, 505, 1308-1319.	8.0	20
54	Uranium and Radon in Private Bedrock Well Water in Maine: Geospatial Analysis at Two Scales. Environmental Science & Technology, 2014, 48, 4298-4306.	10.0	41

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55	Arsenic, fluoride and iodine in groundwater of China. Journal of Geochemical Exploration, 2013, 135, 1-21.	3.2	200
56	Enrichment of arsenic in surface water, stream sediments and soils in Tibet. Journal of Geochemical Exploration, 2013, 135, 104-116.	3.2	60
57	The Effectiveness of Educational Interventions to Enhance the Adoption of Fee-Based Arsenic Testing in Bangladesh: A Cluster Randomized Controlled Trial. American Journal of Tropical Medicine and Hygiene, 2013, 89, 138-144.	1.4	16
58	Advection of surface-derived organic carbon fuels microbial reduction in Bangladesh groundwater. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5331-5335.	7.1	96
59	Sanitation coverage in Bangladesh since the millennium: consistency matters. Journal of Water Sanitation and Hygiene for Development, 2013, 3, 240-251.	1.8	8
60	Increasing acceptance of chlorination for household water treatment: observations from Bangladesh. Waterlines, 2013, 32, 125-134.	0.4	6
61	Arsenic in tube well water in Bangladesh: health and economic impacts and implications for arsenic mitigation. Bulletin of the World Health Organization, 2012, 90, 839-846.	3.3	293
62	Can Arsenic Occurrence Rates in Bedrock Aquifers Be Predicted?. Environmental Science & Technology, 2012, 46, 2080-2087.	10.0	43
63	Field, Experimental, and Modeling Study of Arsenic Partitioning across a Redox Transition in a Bangladesh Aquifer. Environmental Science & Technology, 2012, 46, 1388-1395.	10.0	52
64	Role of iron colloids in copper speciation during neutralization in a coastal acid mine drainage, South Korea: Insight from voltammetric analyses and surface complexation modeling. Journal of Geochemical Exploration, 2012, 112, 244-251.	3.2	11
65	Bioaccessibility of arsenic in various types of rice in anin vitrogastrointestinal fluid system. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2012, 47, 74-80.	1.5	49
66	Evaluation of an Arsenic Test Kit for Rapid Well Screening in Bangladesh. Environmental Science & Technology, 2012, 46, 11213-11219.	10.0	78
67	Carbon, Metals, and Grain Size Correlate with Bacterial Community Structure in Sediments of a High Arsenic Aquifer. Frontiers in Microbiology, 2012, 3, 82.	3.5	27
68	Microbes Enhance Mobility of Arsenic in Pleistocene Aquifer Sand from Bangladesh. Environmental Science & Technology, 2011, 45, 2648-2654.	10.0	64
69	Arsenic migration to deep groundwater in Bangladesh influenced by adsorption and waterÂdemand. Nature Geoscience, 2011, 4, 793-798.	12.9	125
70	Assessment of in vivo bioaccessibility of arsenic in dietary rice by a mass balance approach. Science of the Total Environment, 2010, 408, 1430-1436.	8.0	44
71	Temporal variations in arsenic uptake by rice plants in Bangladesh: The role of iron plaque in paddy fields irrigated with groundwater. Science of the Total Environment, 2010, 408, 4185-4193.	8.0	71
72	Dissolved Organic Matter Sources and Consequences for Iron and Arsenic Mobilization in Bangladesh Aquifers. Environmental Science & Technology, 2010, 44, 123-128.	10.0	196

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73	Dissolved osmium in Bengal plain groundwater: Implications for the marine Os budget. Geochimica Et Cosmochimica Acta, 2010, 74, 3432-3448.	3.9	16
74	Redox trapping of arsenic during groundwater discharge in sediments from the Meghna riverbank in Bangladesh. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16930-16935.	7.1	79
75	On the influence of a raffle upon responses to an urban transportation survey in New York City. International Journal of Public Health, 2009, 54, 31-34.	2.6	5
76	Spatial Pattern of Groundwater Arsenic Occurrence and Association with Bedrock Geology in Greater Augusta, Maine. Environmental Science & Technology, 2009, 43, 2714-2719.	10.0	48
77	Field, Laboratory, and Modeling Study of Reactive Transport of Groundwater Arsenic in a Coastal Aquifer. Environmental Science & Technology, 2009, 43, 5333-5338.	10.0	52
78	Degradation rates of CFC-11, CFC-12 and CFC-113 in anoxic shallow aquifers of Araihazar, Bangladesh. Journal of Contaminant Hydrology, 2008, 97, 27-41.	3.3	35
79	Temporal variability of groundwater chemistry in shallow and deep aquifers of Araihazar, Bangladesh. Journal of Contaminant Hydrology, 2008, 99, 97-111.	3.3	101
80	Considerations for conducting incubations to study the mechanisms of As release in reducing groundwater aquifers. Applied Geochemistry, 2008, 23, 3224-3235.	3.0	21
81	The benefit of public transportation: Physical activity to reduce obesity and ecological footprint. Preventive Medicine, 2008, 46, 4-5.	3.4	30
82	Contributions of floodplain stratigraphy and evolution to the spatial patterns of groundwater arsenic in Araihazar, Bangladesh. Bulletin of the Geological Society of America, 2008, 120, 1567-1580.	3.3	80
83	Flushing History as a Hydrogeological Control on the Regional Distribution of Arsenic in Shallow Groundwater of the Bengal Basin. Environmental Science & Technology, 2008, 42, 2283-2288.	10.0	144
84	Health Effects of Exposure to Natural Arsenic in Groundwater and Coal in China: An Overview of Occurrence. Environmental Health Perspectives, 2007, 115, 636-642.	6.0	149
85	Cathodic stripping voltammetric analysis of arsenic species in environmental water samples. Microchemical Journal, 2007, 85, 265-269.	4.5	35
86	Sediment Cd and Mo accumulation in the oxygen-minimum zone off western Baja California linked to global climate over the past 52 kyr. Paleoceanography, 2006, 21, .	3.0	48
87	A transect of groundwater and sediment properties in Araihazar, Bangladesh: Further evidence of decoupling between As and Fe mobilization. Chemical Geology, 2006, 228, 85-96.	3.3	74
88	Preliminary evidence of a link between surface soil properties and the arsenic content of shallow groundwater in Bangladesh. Journal of Geochemical Exploration, 2006, 88, 157-161.	3.2	19
89	Enhanced recovery of arsenite sorbed onto synthetic oxides by l-ascorbic acid addition to phosphate solution: calibrating a sequential leaching method for the speciation analysis of arsenic in natural samples. Water Research, 2006, 40, 2168-2180.	11.3	19
90	Impact of irrigating rice paddies with groundwater containing arsenic in Bangladesh. Science of the Total Environment, 2006, 367, 769-777.	8.0	102

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91	Water Manganese Exposure and Childrenâ€™s Intellectual Function in Araihazar, Bangladesh. Environmental Health Perspectives, 2006, 114, 124-129.	6.0	652
92	Arsenic Redistribution between Sediments and Water near a Highly Contaminated Source. Environmental Science & Technology, 2005, 39, 8606-8613.	10.0	64
93	Geochemical and hydrogeological contrasts between shallow and deeper aquifers in two villages of Araihazar, Bangladesh: Implications for deeper aquifers as drinking water sources. Geochimica Et Cosmochimica Acta, 2005, 69, 5203-5218.	3.9	169
94	Rapid multi-element analysis of groundwater by high-resolution inductively coupled plasma mass spectrometry. Analytical and Bioanalytical Chemistry, 2004, 379, 512-518.	3.7	172
95	Differential pulse cathodic stripping voltammetric speciation of trace level inorganic arsenic compounds in natural water samples. Analytica Chimica Acta, 2004, 511, 55-61.	5.4	66
96	A rapid colorimetric method for measuring arsenic concentrations in groundwater. Analytica Chimica Acta, 2004, 526, 203-209.	5.4	271
97	Enhanced marine productivity off western North America during warm climate intervals of the past 52 k.y.. Geology, 2004, 32, 521.	4.4	102
98	Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part I: Evidence from sediment profiles. Geochimica Et Cosmochimica Acta, 2004, 68, 3459-3473.	3.9	300
99	Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part II: Evidence from sediment incubations. Geochimica Et Cosmochimica Acta, 2004, 68, 3475-3486.	3.9	231
100	Redox control of arsenic mobilization in Bangladesh groundwater. Applied Geochemistry, 2004, 19, 201-214.	3.0	348
101	Accumulation and uptake of light rare earth elements in a hyperaccumulator Dicropteris dichotoma. Plant Science, 2003, 165, 1343-1353.	3.6	103
102	A rapid procedure for the determination of thorium, uranium, cadmium and molybdenum in small sediment samples by inductively coupled plasma-mass spectrometry: application in Chesapeake Bay. Applied Geochemistry, 2003, 18, 539-549.	3.0	28
103	Comment on "Arsenic Mobility and Groundwater Extraction in Bangladesh" (II). Science, 2003, 300, 584c-584.	12.6	47
104	Preservation of particulate non-lithogenic uranium in marine sediments. Geochimica Et Cosmochimica Acta, 2002, 66, 3085-3092.	3.9	171
105	Burial of redox-sensitive metals and organic matter in the equatorial Indian Ocean linked to precession. Geochimica Et Cosmochimica Acta, 2002, 66, 849-865.	3.9	46
106	Remobilization of authigenic uranium in marine sediments by bioturbation. Geochimica Et Cosmochimica Acta, 2002, 66, 1759-1772.	3.9	192
107	Challenges in Radiocarbon Dating Organic Carbon in Opal-Rich Marine Sediments. Radiocarbon, 2002, 44, 123-136.	1.8	25
108	Differential pulse cathodic stripping voltammetric determination of nanomolar levels of dissolved sulfide applicable to field analysis of groundwater. Analytica Chimica Acta, 2002, 459, 209-217.	5.4	22

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109	Using geophysics to understand arsenic occurrence in Bangladesh groundwater. , 2002, , .		1
110	Promotion of well-switching to mitigate the current arsenic crisis in Bangladesh. Bulletin of the World Health Organization, 2002, 80, 732-7.	3.3	127
111	Associations Between Drinking Water and Urinary Arsenic Levels and Skin Lesions in Bangladesh. Journal of Occupational and Environmental Medicine, 2000, 42, 1195-1201.	1.7	155
112	Authigenic molybdenum formation in marine sediments: a link to pore water sulfide in the Santa Barbara Basin. Geochimica Et Cosmochimica Acta, 2000, 64, 4165-4178.	3.9	422
113	Intensification of the Northeast Pacific oxygen minimum zone during the BÃ¶lling-AllerÃ¶d Warm Period. Paleoceanography, 2000, 15, 528-536.	3.0	102
114	Microscale AMS ¹⁴C Measurement at NOSAMS. Radiocarbon, 1997, 40, 61-75.	1.8	153
115	Strain decoupling across the decollement of the Barbados accretionary prism. Geology, 1996, 24, 127-130.	4.4	78
116	Relation between permeability and effective stress along a plate-boundary fault, Barbados accretionary complex. Geology, 1996, 24, 307-310.	4.4	59
117	Metallothionein separation and analysis by reversed phase high performance liquid chromatography coupled with graphite furnace atomic absorption spectrometry. Chemical Speciation and Bioavailability, 1991, 3, 30-36.	2.0	4
118	Determination of beryllium in urine by graphite-furnace atomic absorption spectrometry. Analytica Chimica Acta, 1989, 217, 271-280.	5.4	22
119	Microorganisms as bioâ€filters to mitigate greenhouse gas emissions from highâ€altitude permafrost revealed by nanoporeâ€based metagenomics. , 0, , .		8