Alan E Fryar

List of Publications by Year
in descending order

57 papers	1,913 citations	430442 18 h-index	253896 43 g-index
62 all docs	62 docs citations	62 times ranked	1464 citing authors

#	Article	IF	Citations
1	Deeper groundwater chemistry and geochemical modeling of the arsenic affected western Bengal basin, West Bengal, India. Applied Geochemistry, 2008, 23, 863-894.	1.4	233
2	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.	0.9	168
3	Geologic, geomorphic and hydrologic framework and evolution of the Bengal basin, India and Bangladesh. Journal of Asian Earth Sciences, 2009, 34, 227-244.	1.0	151
4	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.	1.6	145
5	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.	1.4	138
6	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.	1.4	134
7	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.	2.3	127
8	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.	1.6	98
9	Plate tectonics influence on geogenic arsenic cycling: From primary sources to global groundwater enrichment. Science of the Total Environment, 2019, 683, 793-807.	3.9	60
10	Nitrate reduction during ground-water recharge, Southern High Plains, Texas. Journal of Contaminant Hydrology, 2000, 40, 335-363.	1.6	51
11	Controls on the regional-scale salinization of the Ogallala aquifer, Southern High Plains, Texas, USA. Applied Geochemistry, 2000, 15, 849-864.	1.4	48
12	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.	3.9	40
13	Spatial and Temporal Variability in Seepage Between a Contaminated Aquifer and Tributaries to the Ohio River. Ground Water Monitoring and Remediation, 2000, 20, 129-146.	0.6	36
14	Modeling regional salinization of the Ogallala aquifer, Southern High Plains, TX, USA. Journal of Hydrology, 2000, 238, 44-64.	2.3	36
15	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.	2.3	34
16	Hydraulic-conductivity reduction, reaction-front propagation, and preferential flow within a model reactive barrier. Journal of Contaminant Hydrology, 1998, 32, 333-351.	1.6	33
17	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.	3.9	30
18	Groundwater recharge and chemical evolution in the southern High Plains of Texas, USA. Hydrogeology Journal, 2001, 9, 522-542.	0.9	27

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19	Hydrological processes in glacierized high-altitude basins of the western Himalayas. Hydrogeology Journal, 2018, 26, 615-628.	0.9	20
20	Predictive model for progressive salinization in a coastal aquifer using artificial intelligence and hydrogeochemical techniques: a case study of the Nile Delta aquifer, Egypt. Environmental Science and Pollution Research, 2022, 29, 9318-9340.	2.7	20
21	Groundwater discharge along a channelized Coastal Plain stream. Journal of Hydrology, 2008, 360, 252-264.	2.3	17
22	Sediment discharges during storm flow from proximal urban and rural karst springs, central Kentucky, USA. Journal of Hydrology, 2010, 383, 280-290.	2.3	17
23	Isotopes to assess sustainability of overexploited groundwater in the Soussâ€"Massa system (Morocco). Isotopes in Environmental and Health Studies, 2017, 53, 298-312.	0.5	17
24	Modeling the removal of metals from groundwater by a reactive barrier: Experimental results. Water Resources Research, 1994, 30, 3455-3469.	1.7	16
25	Water and soil quality at two eastern-Kentucky (USA) coal fires. Environmental Earth Sciences, 2016, 75, 1.	1.3	16
26	Assessment of groundwater potential in terms of the availability and quality of the resource: a case study from Iraq. Environmental Earth Sciences, 2021, 80, 1.	1.3	15
27	Differences in pathogen indicators between proximal urban and rural karst springs, Central Kentucky, USA. Environmental Earth Sciences, 2011, 64, 47-55.	1.3	13
28	Arsenic and other toxic elements in surface and groundwater systems. Applied Geochemistry, 2011, 26, 415-420.	1.4	12
29	Variable responses of karst springs to recharge in the Middle Atlas region of Morocco. Hydrogeology Journal, 2019, 27, 1693-1710.	0.9	12
30	Groundwater-derived contaminant fluxes along a channelized Coastal Plain stream. Journal of Hydrology, 2008, 360, 265-280.	2.3	9
31	Controls on Ground Water Chemistry in the Central Couloir Sud Rifain, Morocco. Ground Water, 2010, 48, 306-319.	0.7	9
32	Chemical evolution of groundwater in the Wilcox aquifer of the northern Gulf Coastal Plain, USA. Hydrogeology Journal, 2017, 25, 2403-2418.	0.9	8
33	Differential Transport of Escherichia coli Isolates Compared to Abiotic Tracers in a Karst Aquifer. Ground Water, 2020, 58, 70-78.	0.7	8
34	Incorporating a Watershed-Based Summary Field Exercise into an Introductory Hydrogeology Course. Journal of Geoscience Education, 2010, 58, 214-220.	0.8	8
35	Modeling of Groundwater Potential Using Cloud Computing Platform: A Case Study from Nineveh Plain, Northern Iraq. Water (Switzerland), 2021, 13, 3330.	1.2	8
36	Stable isotopic fingerprint of a hyporheicâ€"hypolentic boundary in a reservoir. Hydrogeology Journal, 2006, 14, 1688-1695.	0.9	7

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37	Use of Molecular Markers to Compare <i>Escherichia coli</i> Transport with Traditional Groundwater Tracers in Epikarst. Journal of Environmental Quality, 2018, 47, 88-95.	1.0	6
38	The Future of Hydrogeology, Then and Now: A Look Back at O.E. Meinzer?s Perspectives, 1934 to 1947. Ground Water, 2007, 45, 246-249.	0.7	5
39	Probability mapping of groundwater contamination by hydrocarbon from the deep oil reservoirs using GIS-based machine-learning algorithms: a case study of the Dammam aquifer (middle of Iraq). Environmental Science and Pollution Research, 2021, 28, 13736-13751.	2.7	5
40	Groundwater Flow and Reservoir Management in a Tributary Watershed along Kentucky Lake. Journal of the Kentucky Academy of Science, 2007, 68, 11-23.	0.7	4
41	Prevalence of and Relationship between Two Human-Associated DNA Biomarkers for Bacteroidales in an Urban Watershed. Journal of Environmental Quality, 2015, 44, 1694-1698.	1.0	4
42	Use of Nitrogenâ€15â€Enriched <i>Escherichia coli</i> as a Bacterial Tracer in Karst Aquifers. Ground Water, 2016, 54, 830-839.	0.7	4
43	Variability in groundwater flow and chemistry in the Mekong River alluvial aquifer (Thailand): implications for arsenic and manganese occurrence. Environmental Earth Sciences, 2021, 80, 1.	1.3	4
44	Assessing the spatial and temporal variations of terrestrial water storage of Iraq using GRACE satellite data and reliabilityâ€"resiliencyâ€"vulnerability indicators. Arabian Journal of Geosciences, 2022, 15, 1.	0.6	4
45	Trichloroethene Biodegradation Potential in Wetland Soils and Paleowetland Sediments. Bioremediation Journal, 2001, 5, 27-50.	1.0	3
46	Implications and concerns of deep-seated disposal of hydrocarbon exploration produced water using three-dimensional contaminant transport model in Bhit Area, Dadu District of Southern Pakistan. Environmental Monitoring and Assessment, 2010, 170, 395-406.	1.3	3
47	Groundwater of carbonate aquifers. , 2021, , 23-34.		3
48	Characterizing Hydrological Functioning of Three Large Karst Springs in the Salem Plateau, Missouri, USA. Hydrology, 2022, 9, 96.	1.3	3
49	Springs and the Origin of Bourbon. Ground Water, 2009, 47, 605-610.	0.7	2
50	Bourbon and springs in the Inner Bluegrass region of Kentucky. , 2012, , 19-31.		2
51	Controls on groundwater quality and dug-well asphyxiation hazard in Dakoro area of Niger. Groundwater for Sustainable Development, 2017, 5, 235-243.	2.3	2
52	Seasonal to Decadal Variability in Focused Groundwater and Contaminant Discharge along a Channelized Stream. Ground Water Monitoring and Remediation, 2021, 41, 32-45.	0.6	2
53	WIIKY (WATER IN INDIA AND KENTUCKY): INTEGRATING FIELD EXPERIENCES WITH AN ONLINE PLATFORM FOR HIGH SCHOOL CLASSES. , 2018, , .		1
54	Discussion of Associations Between Rural Land Uses and Ground Water Quality in the Ogallala Aquifer, Northwest Texas by Paul F. Hudak (2002), Ground Water Monitoring & Remediation , v. 22, no. 4, pages 117-120. Ground Water Monitoring and Remediation, 2003, 23, 97-98.	0.6	0

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55	Too Hot to Touch: The Problem of High-Level Nuclear Waste. Ground Water, 2014, 52, 335-336.	0.7	0
56	Water in India and Kentucky: Developing an Online Curriculum with Field Experiences for High School Classes in Diverse Settings. Journal of Contemporary Water Research and Education, 2019, 168, 78-92.	0.7	0
57	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.	0.3	0