

Mohammad Shamsudduha

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,673
citations

159585

30
h-index

175258

52
g-index

70
all docs

70
docs citations

70
times ranked

5090
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground water and climate change. <i>Nature Climate Change</i> , 2013, 3, 322-329.	18.8	1,513
2	Groundwater quality and depletion in the Indo-Gangetic Basin mapped from in-situ observations. <i>Nature Geoscience</i> , 2016, 9, 762-766.	12.9	341
3	Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part I: Evidence from sediment profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3459-3473.	3.9	300
4	Recent trends in groundwater levels in a highly seasonal hydrological system: the Ganges-Brahmaputra-Meghna Delta. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2373-2385.	4.9	198
5	Monitoring groundwater storage changes in the highly seasonal humid tropics: Validation of GRACE measurements in the Bengal Basin. <i>Water Resources Research</i> , 2012, 48, .	4.2	176
6	Geochemical and hydrogeological contrasts between shallow and deeper aquifers in two villages of Araihasar, Bangladesh: Implications for deeper aquifers as drinking water sources. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5203-5218.	3.9	169
7	Observed controls on resilience of groundwater to climate variability in sub-Saharan Africa. <i>Nature</i> , 2019, 572, 230-234.	27.8	168
8	The impact of intensive groundwater abstraction on recharge to a shallow regional aquifer system: evidence from Bangladesh. <i>Hydrogeology Journal</i> , 2011, 19, 901-916.	2.1	163
9	Hydrological control of As concentrations in Bangladesh groundwater. <i>Water Resources Research</i> , 2007, 43, .	4.2	139
10	Hydrogeological typologies of the Indo-Gangetic basin alluvial aquifer, South Asia. <i>Hydrogeology Journal</i> , 2017, 25, 1377-1406.	2.1	117
11	Temporal variability of groundwater chemistry in shallow and deep aquifers of Araihasar, Bangladesh. <i>Journal of Contaminant Hydrology</i> , 2008, 99, 97-111.	3.3	101
12	Resilience to flash floods in wetland communities of northeastern Bangladesh. <i>International Journal of Disaster Risk Reduction</i> , 2018, 31, 478-488.	3.9	86
13	Quaternary stratigraphy, sediment characteristics and geochemistry of arsenic-contaminated alluvial aquifers in the Ganges-Brahmaputra floodplain in central Bangladesh. <i>Journal of Contaminant Hydrology</i> , 2008, 99, 112-136.	3.3	78
14	Geochemistry and mineralogy of arsenic in (natural) anaerobic groundwaters. <i>Applied Geochemistry</i> , 2008, 23, 3205-3214.	3.0	75
15	Impact of local recharge on arsenic concentrations in shallow aquifers inferred from the electromagnetic conductivity of soils in Araihasar, Bangladesh. <i>Water Resources Research</i> , 2008, 44, .	4.2	69
16	Modeling regional-scale groundwater arsenic hazard in the transboundary Ganges River Delta, India and Bangladesh: Infusing physically-based model with machine learning. <i>Science of the Total Environment</i> , 2020, 748, 141107.	8.0	68
17	Satellite-derived surface and sub-surface water storage in the Ganges-Brahmaputra River Basin. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 15-35.	2.4	56
18	Vulnerability of low-arsenic aquifers to municipal pumping in Bangladesh. <i>Journal of Hydrology</i> , 2016, 539, 674-686.	5.4	54

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19	The 2015–2016 climate anomalies and their impact on groundwater resources in East and Southern Africa. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1751-1762.	4.9	52
20	Seasonal and Decadal Groundwater Changes in African Sedimentary Aquifers Estimated Using GRACE Products and LSMs. <i>Remote Sensing</i> , 2018, 10, 904.	4.0	50
21	Quaternary shoreline shifting and hydrogeologic influence on the distribution of groundwater arsenic in aquifers of the Bengal Basin. <i>Journal of Asian Earth Sciences</i> , 2007, 31, 177-194.	2.3	47
22	Delineating low-arsenic groundwater environments in the Bengal Aquifer System, Bangladesh. <i>Applied Geochemistry</i> , 2011, 26, 614-623.	3.0	44
23	Recent changes in terrestrial water storage in the Upper Nile Basin: an evaluation of commonly used gridded GRACE products. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4533-4549.	4.9	43
24	Groundwater storage dynamics in the world's large aquifer systems from GRACE: uncertainty and role of extreme precipitation. <i>Earth System Dynamics</i> , 2020, 11, 755-774.	7.1	35
25	Multi-hazard Groundwater Risks to Water Supply from Shallow Depths: Challenges to Achieving the Sustainable Development Goals in Bangladesh. <i>Exposure and Health</i> , 2020, 12, 657-670.	4.9	33
26	Near surface lithology and spatial variation of arsenic in the shallow groundwater: southeastern Bangladesh. <i>Environmental Geology</i> , 2009, 56, 1687-1695.	1.2	32
27	Spatial relationship of groundwater arsenic distribution with regional topography and water-table fluctuations in the shallow aquifers in Bangladesh. <i>Environmental Geology</i> , 2009, 57, 1521.	1.2	32
28	Indigenous people's responses to drought in northwest Bangladesh. <i>Environmental Development</i> , 2019, 29, 55-66.	4.1	32
29	A generalized regression model of arsenic variations in the shallow groundwater of Bangladesh. <i>Water Resources Research</i> , 2015, 51, 685-703.	4.2	31
30	Mineralogical profiling of alluvial sediments from arsenic-affected Ganges–Brahmaputra floodplain in central Bangladesh. <i>Applied Geochemistry</i> , 2011, 26, 470-483.	3.0	30
31	Drinking Water Salinity, Urinary Macro-mineral Excretions, and Blood Pressure in the Southwest Coastal Population of Bangladesh. <i>Journal of the American Heart Association</i> , 2019, 8, e012007.	3.7	30
32	Linkages between GRACE water storage, hydrologic extremes, and climate teleconnections in major African aquifers. <i>Environmental Research Letters</i> , 2022, 17, 014046.	5.2	28
33	Terrestrial water load and groundwater fluctuation in the Bengal Basin. <i>Scientific Reports</i> , 2017, 7, 3872.	3.3	25
34	Security of Deep Groundwater in the Coastal Bengal Basin Revealed by Tracers. <i>Geophysical Research Letters</i> , 2018, 45, 8241-8252.	4.0	25
35	Spatio-temporal changes in terrestrial water storage in the Himalayan river basins and risks to water security in the region: A review. <i>International Journal of Disaster Risk Reduction</i> , 2019, 35, 101068.	3.9	25
36	Climate–groundwater dynamics inferred from GRACE and the role of hydraulic memory. <i>Earth System Dynamics</i> , 2020, 11, 775-791.	7.1	22

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37	Stepped-wedge cluster-randomised controlled trial to assess the cardiovascular health effects of a managed aquifer recharge initiative to reduce drinking water salinity in southwest coastal Bangladesh: study design and rationale. <i>BMJ Open</i> , 2017, 7, e015205.	1.9	18
38	Security of deep groundwater against arsenic contamination in the Bengal Aquifer System: a numerical modeling study in southeast Bangladesh. <i>Sustainable Water Resources Management</i> , 2019, 5, 1073-1087.	2.1	18
39	Groundwater recharge from heavy rainfall in the southwestern Lake Chad Basin: evidence from isotopic observations. <i>Hydrological Sciences Journal</i> , 2021, 66, 1359-1371.	2.6	17
40	Warning systems as social processes for Bangladesh cyclones. <i>Disaster Prevention and Management</i> , 2018, 27, 370-379.	1.2	15
41	Arsenic and fasting blood glucose in the context of other drinking water chemicals: a cross-sectional study in Bangladesh. <i>Environmental Research</i> , 2019, 172, 249-257.	7.5	13
42	Consequences of access to water from managed aquifer recharge systems for blood pressure and proteinuria in south-west coastal Bangladesh: a stepped-wedge cluster-randomized trial. <i>International Journal of Epidemiology</i> , 2021, 50, 916-928.	1.9	13
43	Groundwater recharge processes in an Asian mega-delta: hydrometric evidence from Bangladesh. <i>Hydrogeology Journal</i> , 2020, 28, 2917-2932.	2.1	13
44	Associations of drinking rainwater with macro-mineral intake and cardiometabolic health: a pooled cohort analysis in Bangladesh, 2016–2019. <i>Npj Clean Water</i> , 2020, 3, 20.	8.0	12
45	Groundwater depletion in northern India: Impacts of the sub-regional anthropogenic land-use, socio-politics and changing climate. <i>Hydrological Processes</i> , 2021, 35, e14003.	2.6	11
46	The influence of groundwater abstraction on interpreting climate controls and extreme recharge events from well hydrographs in semi-arid South Africa. <i>Hydrogeology Journal</i> , 2021, 29, 2773-2787.	2.1	10
47	Groundwater Chemistry and Blood Pressure: A Cross-Sectional Study in Bangladesh. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2289.	2.6	6
48	Letter to the Editor Regarding, “The Unintended Consequences of the Reverse Osmosis Revolution” • <i>Environmental Science & Technology</i> , 2019, 53, 7173-7174.	10.0	6
49	Modeling the Relationship of Groundwater Salinity to Neonatal and Infant Mortality From the Bangladesh Demographic Health Survey 2000 to 2014. <i>GeoHealth</i> , 2020, 4, e2019GH000229.	4.0	6
50	Multi-Hazard Groundwater Risks to the Drinking Water Supply in Bangladesh: Challenges to Achieving the Sustainable Development Goals. , 2019, , .		6
51	Spatio-temporal patterns of pre-eclampsia and eclampsia in relation to drinking water salinity at the district level in Bangladesh from 2016 to 2018. <i>Population and Environment</i> , 2019, 41, 235-251.	3.0	5
52	Impacts of Human Development and Climate Change on Groundwater Resources in Bangladesh. <i>Springer Hydrogeology</i> , 2018, , 523-544.	0.3	3
53	Groundwater storage dynamics in the Himalayan river basins and impacts of global change in the Anthropocene. , 2021, , 47-63.		1
54	Drinking Water Salinity Categories and Lower Blood Pressure: Evidence from Coastal Bangladesh. <i>ISEE Conference Abstracts</i> , 2018, 2018, .	0.0	0

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55	Groundwater Arsenic and Fasting Blood Glucose in the Context of Other Groundwater Chemicals: A Cross-Sectional Study in Bangladesh. ISEE Conference Abstracts, 2018, 2018, .	0.0	0