

Charles F Harvey

List of Publications by Year in descending order

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86
papers

8,244
citations

61984

43
h-index

56724

83
g-index

100
all docs

100
docs citations

100
times ranked

6834
citing authors

#	ARTICLE	IF	CITATIONS
1	Arsenic Mobility and Groundwater Extraction in Bangladesh. <i>Science</i> , 2002, 298, 1602-1606.	12.6	1,063
2	Validation of an Arsenic Sequential Extraction Method for Evaluating Mobility in Sediments. <i>Environmental Science & Technology</i> , 2001, 35, 2778-2784.	10.0	467
3	Seasonal oscillations in water exchange between aquifers and the coastal ocean. <i>Nature</i> , 2005, 436, 1145-1148.	27.8	466
4	When good statistical models of aquifer heterogeneity go bad: A comparison of flow, dispersion, and mass transfer in connected and multivariate Gaussian hydraulic conductivity fields. <i>Water Resources Research</i> , 2003, 39, .	4.2	337
5	Anthropogenic influences on groundwater arsenic concentrations in Bangladesh. <i>Nature Geoscience</i> , 2010, 3, 46-52.	12.9	331
6	Permanent carbon dioxide storage in deep-sea sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12291-12295.	7.1	323
7	Groundwater dynamics and arsenic contamination in Bangladesh. <i>Chemical Geology</i> , 2006, 228, 112-136.	3.3	276
8	Mobility of arsenic in a Bangladesh aquifer: Inferences from geochemical profiles, leaching data, and mineralogical characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4539-4557.	3.9	259
9	The energy penalty of post-combustion CO ₂ capture & storage and its implications for retrofitting the U.S. installed base. <i>Energy and Environmental Science</i> , 2009, 2, 193.	30.8	235
10	Reactive Transport in Porous Media: A Comparison of Model Prediction with Laboratory Visualization. <i>Environmental Science & Technology</i> , 2002, 36, 2508-2514.	10.0	218
11	Rate-limited mass transfer or macrodispersion: Which dominates plume evolution at the macrodispersion experiment (MADE) site?. <i>Water Resources Research</i> , 2000, 36, 637-650.	4.2	196
12	Arsenic in groundwater in Bangladesh: A geostatistical and epidemiological framework for evaluating health effects and potential remedies. <i>Water Resources Research</i> , 2003, 39, .	4.2	185
13	Processes conducive to the release and transport of arsenic into aquifers of Bangladesh. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18819-18823.	7.1	184
14	Temporal Moment-Generating Equations: Modeling Transport and Mass Transfer in Heterogeneous Aquifers. <i>Water Resources Research</i> , 1995, 31, 1895-1911.	4.2	169
15	Solid-phases and desorption processes of arsenic within Bangladesh sediments. <i>Chemical Geology</i> , 2006, 228, 97-111.	3.3	162
16	Groundwater arsenic contamination on the Ganges Delta: biogeochemistry, hydrology, human perturbations, and human suffering on a large scale. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 285-296.	1.2	160
17	What controls the apparent timescale of solute mass transfer in aquifers and soils? A comparison of experimental results. <i>Water Resources Research</i> , 2004, 40, .	4.2	139
18	Transient groundwater dynamics in a coastal aquifer: The effects of tides, the lunar cycle, and the beach profile. <i>Water Resources Research</i> , 2013, 49, 2473-2488.	4.2	137

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19	Retardation of arsenic transport through a Pleistocene aquifer. <i>Nature</i> , 2013, 501, 204-207.	27.8	136
20	Tropical peatland carbon storage linked to global latitudinal trends in peat recalcitrance. <i>Nature Communications</i> , 2018, 9, 3640.	12.8	135
21	Groundwater Dynamics and Arsenic Mobilization in Bangladesh Assessed Using Noble Gases and Tritium. <i>Environmental Science & Technology</i> , 2006, 40, 243-250.	10.0	130
22	Groundwater systems of the Indian Sub-Continent. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 1-14.	2.4	125
23	Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences. <i>Global Change Biology</i> , 2017, 23, 977-982.	9.5	114
24	Characterizing submarine groundwater discharge: A seepage meter study in Waquoit Bay, Massachusetts. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	111
25	Mapping Hydraulic Conductivity: Sequential Conditioning with Measurements of Solute Arrival Time, Hydraulic Head, and Local Conductivity. <i>Water Resources Research</i> , 1995, 31, 1615-1626.	4.2	106
26	Megacity pumping and preferential flow threaten groundwater quality. <i>Nature Communications</i> , 2016, 7, 12833.	12.8	96
27	Experimental Visualization of Solute Transport and Mass Transfer Processes in Two-Dimensional Conductivity Fields with Connected Regions of High Conductivity. <i>Environmental Science & Technology</i> , 2004, 38, 3916-3926.	10.0	94
28	Using Performance Reference Compounds in Polyethylene Passive Samplers to Deduce Sediment Porewater Concentrations for Numerous Target Chemicals. <i>Environmental Science & Technology</i> , 2009, 43, 8888-8894.	10.0	92
29	Marine electrical resistivity imaging of submarine groundwater discharge: sensitivity analysis and application in Waquoit Bay, Massachusetts, USA. <i>Hydrogeology Journal</i> , 2010, 18, 173-185.	2.1	92
30	Patterns and variability of groundwater flow and radium activity at the coast: A case study from Waquoit Bay, Massachusetts. <i>Marine Chemistry</i> , 2011, 127, 100-114.	2.3	87
31	The global flux of carbon dioxide into groundwater. <i>Geophysical Research Letters</i> , 2001, 28, 279-282.	4.0	81
32	Aquifer remediation: A method for estimating mass transfer rate coefficients and an evaluation of pulsed pumping. <i>Water Resources Research</i> , 1994, 30, 1979-1991.	4.2	79
33	Investigation of aquifer-estuary interaction using wavelet analysis of fiber-optic temperature data. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	79
34	How temporal patterns in rainfall determine the geomorphology and carbon fluxes of tropical peatlands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5187-E5196.	7.1	79
35	Widespread subsidence and carbon emissions across Southeast Asian peatlands. <i>Nature Geoscience</i> , 2020, 13, 435-440.	12.9	75
36	Colloidal silica transport through structured, heterogeneous porous media. <i>Journal of Hydrology</i> , 1994, 163, 271-288.	5.4	65

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37	Rice Field Geochemistry and Hydrology: An Explanation for Why Groundwater Irrigated Fields in Bangladesh are Net Sinks of Arsenic from Groundwater. <i>Environmental Science & Technology</i> , 2011, 45, 2072-2078.	10.0	64
38	What does a slug test measure: An investigation of instrument response and the effects of heterogeneity. <i>Water Resources Research</i> , 2002, 38, 26-1-26-14.	4.2	59
39	River bank geomorphology controls groundwater arsenic concentrations in aquifers adjacent to the Red River, Hanoi Vietnam. <i>Water Resources Research</i> , 2016, 52, 6321-6334.	4.2	57
40	Forest dynamics and tipâ€up pools drive pulses of high carbon accumulation rates in a tropical peat dome in Borneo (Southeast Asia). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 617-640.	3.0	56
41	Vulnerability of low-arsenic aquifers to municipal pumping in Bangladesh. <i>Journal of Hydrology</i> , 2016, 539, 674-686.	5.4	54
42	Impact of deforestation on solid and dissolved organic matter characteristics of tropical peat forests: implications for carbon release. <i>Biogeochemistry</i> , 2013, 114, 183-199.	3.5	53
43	Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12419-12424.	7.1	52
44	Origin, composition, and transformation of dissolved organic matter in tropical peatlands. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 35-47.	3.9	44
45	Hydrology of a groundwaterâ€irrigated rice field in Bangladesh: Seasonal and daily mechanisms of infiltration. <i>Water Resources Research</i> , 2009, 45, .	4.2	43
46	Field Study of Rice Yield Diminished by Soil Arsenic in Bangladesh. <i>Environmental Science & Technology</i> , 2017, 51, 11553-11560.	10.0	38
47	Groundwater Flow in the Ganges Delta. <i>Science</i> , 2002, 296, 1563a-1563.	12.6	37
48	Propagation velocity of a natural hydraulic fracture in a poroelastic medium. <i>Journal of Geophysical Research</i> , 1994, 99, 21667-21677.	3.3	35
49	A method for estimating distributions of mass transfer rate coefficients with application to purging and batch experiments. <i>Journal of Contaminant Hydrology</i> , 1999, 37, 367-388.	3.3	35
50	Carbon fluxes from an urban tropical grassland. <i>Environmental Pollution</i> , 2015, 203, 227-234.	7.5	30
51	Comment on â€Investigating the Macrodispersion Experiment (MADE) site in Columbus, Mississippi, using a three-dimensional inverse flow and transport modelâ€ by Heidi Christiansen Barlebo, Mary C. Hill, and Dan Rosbjerg. <i>Water Resources Research</i> , 2006, 42, .	4.2	29
52	A colorimetric reaction to quantify fluid mixing. <i>Experiments in Fluids</i> , 2006, 41, 673-683.	2.4	29
53	CO ₂ emissions from an undrained tropical peatland: Interacting influences of temperature, shading and water table depth. <i>Global Change Biology</i> , 2019, 25, 2885-2899.	9.5	28
54	Poisoned waters traced to source. <i>Nature</i> , 2008, 454, 415-416.	27.8	27

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55	Crab burrows as conduits for groundwater-surface water exchange in Bangladesh. <i>Geophysical Research Letters</i> , 2014, 41, 8342-8347.	4.0	26
56	Illuminating reactive microbial transport in saturated porous media: Demonstration of a visualization method and conceptual transport model. <i>Journal of Contaminant Hydrology</i> , 2005, 77, 233-245.	3.3	25
57	Scalar Simulation and Parameterization of Water Table Dynamics in Tropical Peatlands. <i>Water Resources Research</i> , 2019, 55, 9351-9377.	4.2	23
58	From canals to the coast: dissolved organic matter and trace metal composition in rivers draining degraded tropical peatlands in Indonesia. <i>Biogeosciences</i> , 2020, 17, 1897-1909.	3.3	23
59	Satellite soil moisture observations predict burned area in Southeast Asian peatlands. <i>Environmental Research Letters</i> , 2019, 14, 094014.	5.2	22
60	Changes in arsenic exposure in Araihasar, Bangladesh from 2001 through 2015 following a blanket well testing and education campaign. <i>Environment International</i> , 2019, 125, 82-89.	10.0	21
61	High-Arsenic Groundwater in the Southwestern Bengal Basin Caused by a Lithologically Controlled Deep Flow System. <i>Geophysical Research Letters</i> , 2019, 46, 13062-13071.	4.0	21
62	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
63	Carbon storage capacity of tropical peatlands in natural and artificial drainage networks. <i>Environmental Research Letters</i> , 2020, 15, 114009.	5.2	18
64	Drainage Canals in Southeast Asian Peatlands Increase Carbon Emissions. <i>AGU Advances</i> , 2021, 2, e2020AV000321.	5.4	17
65	Quantifying Riverine Recharge Impacts on Redox Conditions and Arsenic Release in Groundwater Aquifers Along the Red River, Vietnam. <i>Water Resources Research</i> , 2019, 55, 6712-6728.	4.2	16
66	The Effects of Dual-Domain Mass Transfer on the Tritium- ³ Helium-3 Dating Method. <i>Environmental Science & Technology</i> , 2008, 42, 4837-4843.	10.0	15
67	Temperature and burning history affect emissions of greenhouse gases and aerosol particles from tropical peatland fire. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1281-1292.	3.3	15
68	The Immobility of CO ₂ in Marine Sediments Beneath 1500 Meters of Water. <i>ChemSusChem</i> , 2010, 3, 905-912.	6.8	14
69	Inversion of High-Arsenic Soil for Improved Rice Yield in Bangladesh. <i>Environmental Science & Technology</i> , 2019, 53, 3410-3418.	10.0	13
70	Reply to 'Aquifer arsenic source'. <i>Nature Geoscience</i> , 2011, 4, 656-656.	12.9	11
71	Arsenic oxyanion binding to NOM from dung and aquaculture pond sediments in Bangladesh: Importance of site-specific binding constants. <i>Applied Geochemistry</i> , 2017, 78, 234-240.	3.0	11
72	Latitude, Elevation, and Mean Annual Temperature Predict Peat Organic Matter Chemistry at a Global Scale. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	11

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73	A Differential Pressure Instrument with Wireless Telemetry for In-Situ Measurement of Fluid Flow across Sediment-Water Boundaries. <i>Sensors</i> , 2009, 9, 404-429.	3.8	10
74	Geochemical transformations beneath man-made ponds: Implications for arsenic mobilization in South Asian aquifers. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 288, 262-281.	3.9	9
75	Bromide transport before, during, and after colloid mobilization in push-pull tests and the implications for changes in aquifer properties. <i>Water Resources Research</i> , 2003, 39, .	4.2	7
76	A mass-balance model to assess arsenic exposure from multiple wells in Bangladesh. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2022, 32, 442-450.	3.9	7
77	Characterizing Submarine Ground-Water Discharge Using Fiber-Optic Distributed Temperature Sensing and Marine Electrical Resistivity. , 2008, , .		4
78	Detecting Well Casing Leaks in Bangladesh Using a Salt Spiking Method. <i>Ground Water</i> , 2014, 52, 195-200.	1.3	4
79	Evaluation of a field kit for testing arsenic in paddy soil contaminated by irrigation water. <i>Geoderma</i> , 2021, 382, 114755.	5.1	4
80	Well-Switching to Reduce Arsenic Exposure in Bangladesh: Making the Most of Inaccurate Field Kit Measurements. <i>GeoHealth</i> , 2021, 5, e2021GH000464.	4.0	4
81	A mass-balance approach to evaluate arsenic intake and excretion in different populations. <i>Environment International</i> , 2022, 166, 107371.	10.0	4
82	An Off-Grid PV Power System for Meteorological and Eddy Covariance Flux Station in Kranji, Singapore. <i>Energy Procedia</i> , 2013, 33, 364-373.	1.8	2
83	Characterizing Submarine Ground-Water Discharge Using Fiber-Optic Distributed Temperature Sensing And Marine Electrical Resistivity. , 2008, , .		2
84	Fiber-Optic Distributed Temperature Sensing: A New Tool for Assessment and Monitoring of Hydrologic Processes. , 2008, , .		2
85	Fiber-Optic Distributed Temperature Sensing: A New Tool For Assessment And Monitoring Of Hydrologic Processes. , 2008, , .		0
86	Arsenic: its biogeochemistry and transport in groundwater. <i>Metal Ions in Biological Systems</i> , 2005, 44, 145-69.	0.4	0