

# Shawn Benner

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

5,096  
citations

172457

29  
h-index

189892

50  
g-index

52  
all docs

52  
docs citations

52  
times ranked

4888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary mineralization pathways induced by dissimilatory iron reduction of ferrihydrite under advective flow. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2977-2992.	3.9	561
2	Treatment of inorganic contaminants using permeable reactive barriers. <i>Journal of Contaminant Hydrology</i> , 2000, 45, 123-137.	3.3	496
3	Near-surface wetland sediments as a source of arsenic release to ground water in Asia. <i>Nature</i> , 2008, 454, 505-508.	27.8	486
4	Competing Fe(II)-Induced Mineralization Pathways of Ferrihydrite. <i>Environmental Science &amp; Technology</i> , 2005, 39, 7147-7153.	10.0	475
5	Geochemistry of a Permeable Reactive Barrier for Metals and Acid Mine Drainage. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2793-2799.	10.0	280
6	Structural constraints of ferric (hydr)oxides on dissimilatory iron reduction and the fate of Fe(II). <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3217-3229.	3.9	183
7	Reductive Dissolution and Biomineralization of Iron Hydroxide under Dynamic Flow Conditions. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1705-1711.	10.0	172
8	Nitrous oxide from streams and rivers: A review of primary biogeochemical pathways and environmental variables. <i>Earth-Science Reviews</i> , 2019, 191, 224-262.	9.1	163
9	Surface chemistry and morphology of poorly crystalline iron sulfides precipitated in media containing sulfate-reducing bacteria. <i>Chemical Geology</i> , 1998, 144, 87-97.	3.3	161
10	Aspect influences on soil water retention and storage. <i>Hydrological Processes</i> , 2011, 25, 3836-3842.	2.6	156
11	Integrated biogeochemical and hydrologic processes driving arsenic release from shallow sediments to groundwaters of the Mekong delta. <i>Applied Geochemistry</i> , 2008, 23, 3059-3071.	3.0	152
12	Arsenic release metabolically limited to permanently water-saturated soil in Mekong Delta. <i>Nature Geoscience</i> , 2016, 9, 70-76.	12.9	152
13	Rates of sulfate reduction and metal sulfide precipitation in a permeable reactive barrier. <i>Applied Geochemistry</i> , 2002, 17, 301-320.	3.0	136
14	Aquifer Arsenic Cycling Induced by Seasonal Hydrologic Changes within the Yangtze River Basin. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3521-3529.	10.0	112
15	Redox controls on arsenic enrichment and release from aquifer sediments in central Yangtze River Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 104-119.	3.9	101
16	Microbial populations associated with the generation and treatment of acid mine drainage. <i>Chemical Geology</i> , 2000, 169, 435-448.	3.3	97
17	A simplified approach for estimating soil carbon and nitrogen stocks in semi-arid complex terrain. <i>Geoderma</i> , 2011, 165, 1-11.	5.1	96
18	Groundwater flow in an arsenic-contaminated aquifer, Mekong Delta, Cambodia. <i>Applied Geochemistry</i> , 2008, 23, 3072-3087.	3.0	93

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19	An evaluation of the hydrologic relevance of lateral flow in snow at hillslope and catchment scales. <i>Hydrological Processes</i> , 2013, 27, 640-654.	2.6	87
20	Reactive transport modeling of processes controlling the distribution and natural attenuation of phenolic compounds in a deep sandstone aquifer. <i>Journal of Contaminant Hydrology</i> , 2001, 53, 341-368.	3.3	86
21	Metal Behavior during Surface-Groundwater Interaction, Silver Bow Creek, Montana. <i>Environmental Science &amp; Technology</i> , 1995, 29, 1789-1795.	10.0	76
22	Process-based reactive transport modeling of a permeable reactive barrier for the treatment of mine drainage. <i>Journal of Contaminant Hydrology</i> , 2006, 85, 195-211.	3.3	64
23	Controls on Nitrous Oxide Emissions from the Hyporheic Zones of Streams. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11491-11500.	10.0	64
24	Small soil storage capacity limits benefit of winter snowpack to upland vegetation. <i>Hydrological Processes</i> , 2011, 25, 3858-3865.	2.6	58
25	Solid phase iron-sulfur geochemistry of a reactive barrier for treatment of mine drainage. <i>Applied Geochemistry</i> , 2000, 15, 1331-1343.	3.0	52
26	Peat formation concentrates arsenic within sediment deposits of the Mekong Delta. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 190-205.	3.9	48
27	Reactivity and speciation of mineral-associated arsenic in seasonal and permanent wetlands of the Mekong Delta. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 143-155.	3.9	47
28	Turbidity-based sediment monitoring in northern Thailand: Hysteresis, variability, and uncertainty. <i>Journal of Hydrology</i> , 2014, 519, 2020-2039.	5.4	45
29	Spatial and Temporal Dynamics of Dissolved Oxygen Concentrations and Bioactivity in the Hyporheic Zone. <i>Water Resources Research</i> , 2018, 54, 2112-2128.	4.2	40
30	Urban hypotheses and spatiotemporal characterization of urban growth in the Treasure Valley of Idaho, USA. <i>Applied Geography</i> , 2017, 79, 11-25.	3.7	31
31	Irrigation produces elevated arsenic in the underlying groundwater of a semi-arid basin in Southwestern Idaho. <i>Applied Geochemistry</i> , 2009, 24, 843-859.	3.0	28
32	Isotopic composition of precipitation in a topographically steep, seasonally snow-dominated watershed and implications of variations from the global meteoric water line. <i>Hydrological Processes</i> , 2016, 30, 4582-4592.	2.6	28
33	Aggregate-Scale Heterogeneity in Iron (Hydr)oxide Reductive Transformations. <i>Vadose Zone Journal</i> , 2009, 8, 1004-1012.	2.2	26
34	Rincón de la Vieja volcano, Guanacaste province, Costa Rica: geology of the southwestern flank and hazards implications. <i>Journal of Volcanology and Geothermal Research</i> , 1996, 71, 109-127.	2.1	24
35	Arsenic in South Asia Groundwater. <i>Geography Compass</i> , 2010, 4, 1532-1552.	2.7	24
36	Anthropogenic arsenic. <i>Nature Geoscience</i> , 2010, 3, 5-6.	12.9	21

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37	Transport of biologically important nutrients by wind in an eroding cold desert. <i>Aeolian Research</i> , 2012, 7, 17-27.	2.7	21
38	Hyporheic Source and Sink of Nitrous Oxide. <i>Water Resources Research</i> , 2018, 54, 5001-5016.	4.2	21
39	Analyzing Spatiotemporal Patterns of Urbanization in Treasure Valley, Idaho, USA. <i>Applied Spatial Analysis and Policy</i> , 2018, 11, 205-226.	2.0	19
40	Indo-Gangetic groundwater threat. <i>Nature Geoscience</i> , 2016, 9, 732-733.	12.9	17
41	Lithology and coarse fraction adjusted bulk density estimates for determining total organic carbon stocks in dryland soils. <i>Geoderma</i> , 2019, 337, 844-852.	5.1	16
42	On the rocks: Quantifying storage of inorganic soil carbon on gravels and determining pedon-scale variability. <i>Catena</i> , 2017, 157, 436-442.	5.0	15
43	Persistent Metal Contamination Limits Lotic Ecosystem Heterotrophic Metabolism after More Than 100 Years of Exposure: A Novel Application of the Resazurin Resorufin Smart Tracer. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9862-9871.	10.0	13
44	Coupling biophysical processes and water rights to simulate spatially distributed water use in an intensively managed hydrologic system. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3671-3685.	4.9	11
45	Form and function relationships revealed by long-term research in a semiarid mountain catchment. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1267.	6.5	11
46	Assessment of Ground-Based and Aerial Cloud Seeding Using Trace Chemistry. <i>Advances in Meteorology</i> , 2018, 2018, 1-15.	1.6	10
47	Processes affecting the spatial distribution of seagrass meadow sedimentary material on Yao Yai Island, Thailand. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 136-145.	2.1	8
48	Seasonal recharge components in an urban/agricultural mountain front aquifer system using noble gas thermometry. <i>Journal of Hydrology</i> , 2011, 409, 118-127.	5.4	6
49	Particulate carbon and nitrogen dynamics in a headwater catchment in Northern Thailand: hysteresis, high yields, and hot spots. <i>Hydrological Processes</i> , 2016, 30, 3339-3360.	2.6	6
50	Including Variability across Climate Change Projections in Assessing Impacts on Water Resources in an Intensively Managed Landscape. <i>Water (Switzerland)</i> , 2019, 11, 286.	2.7	1
51	Spatial pattern of soil organic carbon acquired from hyperspectral imagery at reynolds creek critical zone observatory (RC-CZO). , 2016, , .		0
52	A novel fiber optic system to map dissolved oxygen concentrations continuously within submerged sediments. <i>Journal of Applied Water Engineering and Research</i> , 2019, 7, 216-227.	1.8	0