Shawn Benner

List of Publications by Year
in descending order

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	Including Variability across Climate Change Projections in Assessing Impacts on Water Resources in an Intensively Managed Landscape. Water (Switzerland), 2019, 11, 286.	2.7	1
2	A novel fiber optic system to map dissolved oxygen concentrations continuously within submerged sediments. Journal of Applied Water Engineering and Research, 2019, 7, 216-227.	1.8	0
3	Nitrous oxide from streams and rivers: A review of primary biogeochemical pathways and environmental variables. Earth-Science Reviews, 2019, 191, 224-262.	9.1	163
4	Lithology and coarse fraction adjusted bulk density estimates for determining total organic carbon stocks in dryland soils. Geoderma, 2019, 337, 844-852.	5.1	16
5	Spatial and Temporal Dynamics of Dissolved Oxygen Concentrations and Bioactivity in the Hyporheic Zone. Water Resources Research, 2018, 54, 2112-2128.	4.2	40
6	Form and function relationships revealed by longâ€term research in a semiarid mountain catchment. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1267.	6.5	11
7	Analyzing Spatiotemporal Patterns of Urbanization in Treasure Valley, Idaho, USA. Applied Spatial Analysis and Policy, 2018, 11, 205-226.	2.0	19
8	Assessment of Ground-Based and Aerial Cloud Seeding Using Trace Chemistry. Advances in Meteorology, 2018, 2018, 1-15.	1.6	10
9	Hyporheic Source and Sink of Nitrous Oxide. Water Resources Research, 2018, 54, 5001-5016.	4.2	21
10	Redox controls on arsenic enrichment and release from aquifer sediments in central Yangtze River Basin. Geochimica Et Cosmochimica Acta, 2017, 204, 104-119.	3.9	101
11	Urban hypotheses and spatiotemporal characterization of urban growth in the Treasure Valley of Idaho, USA. Applied Geography, 2017, 79, 11-25.	3.7	31
12	On the rocks: Quantifying storage of inorganic soil carbon on gravels and determining pedon-scale variability. Catena, 2017, 157, 436-442.	5.0	15
13	Coupling biophysical processes and water rights to simulate spatially distributed water use in an intensively managed hydrologic system. Hydrology and Earth System Sciences, 2017, 21, 3671-3685.	4.9	11
14	Isotopic composition of precipitation in a topographically steep, seasonally snow-dominated watershed and implications of variations from the global meteoric water line. Hydrological Processes, 2016, 30, 4582-4592.	2.6	28
15	Particulate carbon and nitrogen dynamics in a headwater catchment in Northern Thailand: hysteresis, high yields, and hot spots. Hydrological Processes, 2016, 30, 3339-3360.	2.6	6
16	Processes affecting the spatial distribution of seagrass meadow sedimentary material on Yao Yai Island, Thailand. Estuarine, Coastal and Shelf Science, 2016, 182, 136-145.	2.1	8
17	Indo-Gangetic groundwater threat. Nature Geoscience, 2016, 9, 732-733.	12.9	17
18	Controls on Nitrous Oxide Emissions from the Hyporheic Zones of Streams. Environmental Science & Technology, 2016, 50, 11491-11500.	10.0	64

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19	Spatial pattern of soil organic carbon acquired from hyperspectral imagery at reynolds creek critical zone observatory (RC-CZO). , 2016, , .		0
20	Arsenic release metabolically limited to permanently water-saturated soil in Mekong Delta. Nature Geoscience, 2016, 9, 70-76.	12.9	152
21	Aquifer Arsenic Cycling Induced by Seasonal Hydrologic Changes within the Yangtze River Basin. Environmental Science & Technology, 2016, 50, 3521-3529.	10.0	112
22	Reactivity and speciation of mineral-associated arsenic in seasonal and permanent wetlands of the Mekong Delta. Geochimica Et Cosmochimica Acta, 2015, 171, 143-155.	3.9	47
23	Peat formation concentrates arsenic within sediment deposits of the Mekong Delta. Geochimica Et Cosmochimica Acta, 2015, 149, 190-205.	3.9	48
24	Turbidity-based sediment monitoring in northern Thailand: Hysteresis, variability, and uncertainty. Journal of Hydrology, 2014, 519, 2020-2039.	5.4	45
25	An evaluation of the hydrologic relevance of lateral flow in snow at hillslope and catchment scales. Hydrological Processes, 2013, 27, 640-654.	2.6	87
26	Persistent Metal Contamination Limits Lotic Ecosystem Heterotrophic Metabolism after More Than 100 Years of Exposure: A Novel Application of the Resazurin Resorufin Smart Tracer. Environmental Science & Technology, 2012, 46, 9862-9871.	10.0	13
27	Transport of biologically important nutrients by wind in an eroding cold desert. Aeolian Research, 2012, 7, 17-27.	2.7	21
28	A simplified approach for estimating soil carbon and nitrogen stocks in semi-arid complex terrain. Geoderma, 2011, 165, 1-11.	5.1	96
29	Seasonal recharge components in an urban/agricultural mountain front aquifer system using noble gas thermometry. Journal of Hydrology, 2011, 409, 118-127.	5.4	6
30	Aspect influences on soil water retention and storage. Hydrological Processes, 2011, 25, 3836-3842.	2.6	156
31	Small soil storage capacity limits benefit of winter snowpack to upland vegetation. Hydrological Processes, 2011, 25, 3858-3865.	2.6	58
32	Arsenic in South Asia Groundwater. Geography Compass, 2010, 4, 1532-1552.	2.7	24
33	Anthropogenic arsenic. Nature Geoscience, 2010, 3, 5-6.	12.9	21
34	Irrigation produces elevated arsenic in the underlying groundwater of a semi-arid basin in Southwestern Idaho. Applied Geochemistry, 2009, 24, 843-859.	3.0	28
35	Aggregateâ€Scale Heterogeneity in Iron (Hydr)oxide Reductive Transformations. Vadose Zone Journal, 2009, 8, 1004-1012.	2.2	26
36	Near-surface wetland sediments as a source of arsenic release to ground water in Asia. Nature, 2008, 454, 505-508.	27.8	486

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37	Groundwater flow in an arsenic-contaminated aquifer, Mekong Delta, Cambodia. Applied Geochemistry, 2008, 23, 3072-3087.	3.0	93
38	Integrated biogeochemical and hydrologic processes driving arsenic release from shallow sediments to groundwaters of the Mekong delta. Applied Geochemistry, 2008, 23, 3059-3071.	3.0	152
39	Process-based reactive transport modeling of a permeable reactive barrier for the treatment of mine drainage. Journal of Contaminant Hydrology, 2006, 85, 195-211.	3.3	64
40	Competing Fe(II)-Induced Mineralization Pathways of Ferrihydrite. Environmental Science & Technology, 2005, 39, 7147-7153.	10.0	475
41	Structural constraints of ferric (hydr)oxides on dissimilatory iron reduction and the fate of Fe(II). Geochimica Et Cosmochimica Acta, 2004, 68, 3217-3229.	3.9	183
42	Secondary mineralization pathways induced by dissimilatory iron reduction of ferrihydrite under advective flow. Geochimica Et Cosmochimica Acta, 2003, 67, 2977-2992.	3.9	561
43	Reductive Dissolution and Biomineralization of Iron Hydroxide under Dynamic Flow Conditions. Environmental Science & Technology, 2002, 36, 1705-1711.	10.0	172
44	Rates of sulfate reduction and metal sulfide precipitation in a permeable reactive barrier. Applied Geochemistry, 2002, 17, 301-320.	3.0	136
45	Reactive transport modeling of processes controlling the distribution and natural attenuation of phenolic compounds in a deep sandstone aquifer. Journal of Contaminant Hydrology, 2001, 53, 341-368.	3.3	86
46	Treatment of inorganic contaminants using permeable reactive barriers. Journal of Contaminant Hydrology, 2000, 45, 123-137.	3.3	496
47	Solid phase ironâ€“sulfur geochemistry of a reactive barrier for treatment of mine drainage. Applied Geochemistry, 2000, 15, 1331-1343.	3.0	52
48	Microbial populations associated with the generation and treatment of acid mine drainage. Chemical Geology, 2000, 169, 435-448.	3.3	97
49	Geochemistry of a Permeable Reactive Barrier for Metals and Acid Mine Drainage. Environmental Science & Technology, 1999, 33, 2793-2799.	10.0	280
50	Surface chemistry and morphology of poorly crystalline iron sulfides precipitated in media containing sulfate-reducing bacteria. Chemical Geology, 1998, 144, 87-97.	3.3	161
51	RincÃ³n de la Vieja volcano, Guanacaste province, Costa Rica: geology of the southwestern flank and hazards implications. Journal of Volcanology and Geothermal Research, 1996, 71, 109-127.	2.1	24
52	Metal Behavior during Surface-Groundwater Interaction, Silver Bow Creek, Montana. Environmental Science & Technology, 1995, 29, 1789-1795.	10.0	76