

Martin A Briggs

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,647
citations

201674

27
h-index

206112

48
g-index

86
all docs

86
docs citations

86
times ranked

2032
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Surface Geophysics Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth and Space Science, 2022, 9, .	2.6	3
2	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow Under Highly Dynamic Flow Conditions. Water Resources Research, 2022, 58, .	4.2	10
3	<sc>GW</sc>/<sc>SW&MST</sc>: A Groundwater/Surface&Water</sc> Method Selection Tool. Ground Water, 2022, 60, 784-791.	1.3	6
4	Exploring Local Riverbank Sediment Controls on the Occurrence of Preferential Groundwater Discharge Points. Water (Switzerland), 2022, 14, 11.	2.7	8
5	Hot Spots and Hot Moments in the Critical Zone: Identification of and Incorporation into Reactive Transport Models. , 2022, , 9-47.		7
6	Application of Recursive Estimation to Heat Tracing for Groundwater/Surface&Water Exchange. Water Resources Research, 2022, 58, .	4.2	10
7	Small atoll fresh groundwater lenses respond to a combination of natural climatic cycles and human modified geology. Science of the Total Environment, 2021, 756, 143838.	8.0	11
8	Characterizing Physical Properties of Streambed Interface Sediments Using In Situ Complex Electrical Conductivity Measurements. Water Resources Research, 2021, 57, e2020WR027995.	4.2	5
9	Groundwater discharges as a source of phytoestrogens and other agriculturally derived contaminants to streams. Science of the Total Environment, 2021, 755, 142873.	8.0	14
10	Geochemical and geophysical indicators of oil and gas wastewater can trace potential exposure pathways following releases to surface waters. Science of the Total Environment, 2021, 755, 142909.	8.0	15
11	<sc><i>Aufeis</i></sc> fields as novel groundwater&dependent ecosystems in the arctic cryosphere. Limnology and Oceanography, 2021, 66, 607-624.	3.1	12
12	Ground&penetrating radar, electromagnetic induction, terrain, and vegetation observations coupled with machine learning to map permafrost distribution at Twelvemile Lake, Alaska. Permafrost and Periglacial Processes, 2021, 32, 407-426.	3.4	7
13	Using Heat to Trace Vertical Water Fluxes in Sediment Experiencing Concurrent Tidal Pumping and Groundwater Discharge. Water Resources Research, 2021, 57, e2020WR027904.	4.2	20
14	Heed the data gap: Guidelines for using incomplete datasets in annual stream temperature analyses. Ecological Indicators, 2021, 122, 107229.	6.3	9
15	Continental-scale analysis of shallow and deep groundwater contributions to streams. Nature Communications, 2021, 12, 1450.	12.8	74
16	Evaluation of riverbed magnetic susceptibility for mapping biogeochemical hot spots in groundwater&impacted rivers. Hydrological Processes, 2021, 35, e14184.	2.6	4
17	An ecohydrological typology for thermal refuges in streams and rivers. Ecohydrology, 2021, 14, e2295.	2.4	28
18	Investigation of Scale-Dependent Groundwater/Surface-water Exchange in Rivers by Gradient Self-Potential Logging: Numerical Modeling and Field Experiments. Journal of Environmental and Engineering Geophysics, 2021, 26, 83-98.	0.5	5

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19	Quantitative guidance for efficient vertical flow measurements at the sediment-water interface using temperature-depth profiles. <i>Hydrological Processes</i> , 2020, 34, 649-661.	2.6	13
20	DTSGUI: A Python Program to Process and Visualize Fiber-Optic Distributed Temperature Sensing Data. <i>Ground Water</i> , 2020, 58, 799-804.	1.3	7
21	Improved Prediction of Management-Relevant Groundwater Discharge Characteristics Throughout River Networks. <i>Water Resources Research</i> , 2020, 56, e2020WR028027.	4.2	13
22	Seasonal manganese transport in the hyporheic zone of a snowmelt-dominated river (East River,)	2.1	18
23	Formation Criteria for Hyporheic Anoxic Microzones: Assessing Interactions of Hydraulics, Nutrients, and Biofilms. <i>Water Resources Research</i> , 2020, 56, no.	4.2	17
24	Experimental shifts of hydrologic residence time in a sandy urban stream sediment-water interface alter nitrate removal and nitrous oxide fluxes. <i>Biogeochemistry</i> , 2020, 149, 195-219.	3.5	22
25	Characterizing the diverse hydrogeology underlying rivers and estuaries using new floating transient electromagnetic methodology. <i>Science of the Total Environment</i> , 2020, 740, 140074.	8.0	18
26	Seasonal Subsurface Thaw Dynamics of an Aufeis Feature Inferred From Geophysical Methods. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005345.	2.8	15
27	Hillslope groundwater discharges provide localized stream ecosystem buffers from regional per- and polyfluoroalkyl substances contamination. <i>Hydrological Processes</i> , 2020, 34, 2281-2291.	2.6	19
28	Paired air-water annual temperature patterns reveal hydrogeological controls on stream thermal regimes at watershed to continental scales. <i>Journal of Hydrology</i> , 2020, 587, 124929.	5.4	30
29	Evaluation of Stream and Wetland Restoration Using UAS-Based Thermal Infrared Mapping. <i>Water (Switzerland)</i> , 2019, 11, 1568.	2.7	28
30	Streambed Flux Measurement Informed by Distributed Temperature Sensing Leads to a Significantly Different Characterization of Groundwater Discharge. <i>Water (Switzerland)</i> , 2019, 11, 2312.	2.7	7
31	Return flows from beaver ponds enhance floodplain-to-river metals exchange in alluvial mountain catchments. <i>Science of the Total Environment</i> , 2019, 685, 357-369.	8.0	24
32	Efficient hydrogeological characterization of remote stream corridors using drones. <i>Hydrological Processes</i> , 2019, 33, 316-319.	2.6	19
33	Multi-scale preferential flow processes in an urban streambed under variable hydraulic conditions. <i>Journal of Hydrology</i> , 2019, 573, 168-179.	5.4	11
34	Residence Time Controls on the Fate of Nitrogen in Flow Through Lakebed Sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 689-707.	3.0	20
35	Wetland-Scale Mapping of Preferential Fresh Groundwater Discharge to the Colorado River. <i>Ground Water</i> , 2019, 57, 737-748.	1.3	8
36	Heterogeneity in Hyporheic Flow, Pore Water Chemistry, and Microbial Community Composition in an Alpine Streambed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3465-3478.	3.0	41

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37	The Dual- ϵ Domain Porosity Apparatus: Characterizing Dual Porosity at the Sediment/Water Interface. <i>Ground Water</i> , 2019, 57, 640-646.	1.3	5
38	Inferring watershed hydraulics and cold-water habitat persistence using multi-year air and stream temperature signals. <i>Science of the Total Environment</i> , 2018, 636, 1117-1127.	8.0	51
39	Shallow bedrock limits groundwater seepage-based headwater climate refugia. <i>Limnologica</i> , 2018, 68, 142-156.	1.5	35
40	Hydrogeochemical controls on brook trout spawning habitats in a coastal stream. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6383-6398.	4.9	13
41	Evaluating long-term patterns of decreasing groundwater discharge through a lake-bottom permeable reactive barrier. <i>Journal of Environmental Management</i> , 2018, 220, 233-245.	7.8	15
42	Direct Observations of Hydrologic Exchange Occurring With Less- ϵ Mobile Porosity and the Development of Anoxic Microzones in Sandy Lakebed Sediments. <i>Water Resources Research</i> , 2018, 54, 4714-4729.	4.2	25
43	Rethinking the Use of Seabed Sediment Temperature Profiles to Trace Submarine Groundwater Flow. <i>Water Resources Research</i> , 2018, 54, 4595-4614.	4.2	14
44	Explicit consideration of preferential groundwater discharges as surface water ecosystem control points. <i>Hydrological Processes</i> , 2018, 32, 2435-2440.	2.6	43
45	Simulation of less- ϵ mobile porosity dynamics in contrasting sediment water interface porous media. <i>Hydrological Processes</i> , 2018, 32, 2030-2043.	2.6	10
46	Surface Geophysical Methods for Characterising Frozen Ground in Transitional Permafrost Landscapes. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 52-65.	3.4	30
47	Improved Vertical Streambed Flux Estimation Using Multiple Diurnal Temperature Methods in Series. <i>Ground Water</i> , 2017, 55, 73-80.	1.3	14
48	Heat as a groundwater tracer in shallow and deep heterogeneous media: Analytical solution, spreadsheet tool, and field applications. <i>Hydrological Processes</i> , 2017, 31, 2648-2661.	2.6	38
49	Pore network modeling of the electrical signature of solute transport in dual- ϵ domain media. <i>Geophysical Research Letters</i> , 2017, 44, 4908-4916.	4.0	25
50	Potential for Small Unmanned Aircraft Systems Applications for Identifying Groundwater-Surface Water Exchange in a Meandering River Reach. <i>Geophysical Research Letters</i> , 2017, 44, 11,868.	4.0	28
51	Using Diurnal Temperature Signals to Infer Vertical Groundwater-Surface Water Exchange. <i>Ground Water</i> , 2017, 55, 10-26.	1.3	69
52	GEOELECTRICAL MONITORING OF SOLUTE TRANSPORT IN DUAL-DOMAIN MEDIA: A REVIEW. , 2017, , .		1
53	Influence of groundwater on distribution of dwarf wedgemussels (<i>Alasmidonta</i> Tj ETQq1 1 0.784314 rgBT /Overlook and Earth System Sciences, 2016, 20, 4323-4339.	4.9	15
54	Combined use of thermal methods and seepage meters to efficiently locate, quantify, and monitor focused groundwater discharge to a sand- ϵ bed stream. <i>Water Resources Research</i> , 2016, 52, 4486-4503.	4.2	61

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55	<sc>1DTempPro V2</sc>: New Features for Inferring Groundwater/Surfaceâ€Water Exchange. Ground Water, 2016, 54, 434-439.	1.3	44
56	Thermal infrared video details multiscale groundwater discharge to surface water through macropores and peat pipes. Hydrological Processes, 2016, 30, 2510-2511.	2.6	25
57	Actively heated highâ€resolution fiberâ€opticâ€distributed temperature sensing to quantify streambed flow dynamics in zones of strong groundwater upwelling. Water Resources Research, 2016, 52, 5179-5194.	4.2	38
58	A physical explanation for the development of redox microzones in hyporheic flow. Geophysical Research Letters, 2015, 42, 4402-4410.	4.0	129
59	Experimental evaluation of the applicability of phase, amplitude, and combined methods to determine water flux and thermal diffusivity from temperature time series using VFLUX 2. Journal of Hydrology, 2015, 531, 728-737.	5.4	75
60	A comparison of thermal infrared to fiber-optic distributed temperature sensing for evaluation of groundwater discharge to surface water. Journal of Hydrology, 2015, 530, 153-166.	5.4	100
61	Practical limitations on the use of diurnal temperature signals to quantify groundwater upwelling. Journal of Hydrology, 2014, 519, 1739-1751.	5.4	81
62	Nitrate uptake dynamics of surface transient storage in stream channels and fluvial wetlands. Biogeochemistry, 2014, 120, 239-257.	3.5	30
63	Dualâ€domain massâ€transfer parameters from electrical hysteresis: Theory and analytical approach applied to laboratory, synthetic streambed, and groundwater experiments. Water Resources Research, 2014, 50, 8281-8299.	4.2	26
64	Residence time control on hot moments of net nitrate production and uptake in the hyporheic zone. Hydrological Processes, 2014, 28, 3741-3751.	2.6	96
65	New permafrost is forming around shrinking Arctic lakes, but will it last?. Geophysical Research Letters, 2014, 41, 1585-1592.	4.0	57
66	Understanding Water Column and Streambed Thermal Refugia for Endangered Mussels in the Delaware River. Environmental Science & Technology, 2013, 47, 11423-11431.	10.0	53
67	Relating hyporheic fluxes, residence times, and redox-sensitive biogeochemical processes upstream of beaver dams. Freshwater Science, 2013, 32, 622-641.	1.8	80
68	Do transient storage parameters directly scale in longer, combined stream reaches? Reach length dependence of transient storage interpretations. Journal of Hydrology, 2013, 483, 16-25.	5.4	28
69	Simultaneous estimation of local-scale and flow path-scale dual-domain mass transfer parameters using geoelectrical monitoring. Water Resources Research, 2013, 49, 5615-5630.	4.2	18
70	Using highâ€resolution distributed temperature sensing to quantify spatial and temporal variability in vertical hyporheic flux. Water Resources Research, 2012, 48, .	4.2	172
71	Automated calculation of vertical pore-water flux from field temperature time series using the VFLUX method and computer program. Journal of Hydrology, 2012, 420-421, 142-158.	5.4	163
72	A comparison of fibreâ€optic distributed temperature sensing to traditional methods of evaluating groundwater inflow to streams. Hydrological Processes, 2012, 26, 1277-1290.	2.6	102

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73	Separation of river network-scale nitrogen removal among the main channel and two transient storage compartments. <i>Water Resources Research</i> , 2011, 47, .	4.2	72
74	Residence time distributions in surface transient storage zones in streams: Estimation via signal deconvolution. <i>Water Resources Research</i> , 2011, 47, .	4.2	26
75	Surface and hyporheic transient storage dynamics throughout a coastal stream network. <i>Water Resources Research</i> , 2010, 46, .	4.2	45
76	A method for estimating surface transient storage parameters for streams with concurrent hyporheic storage. <i>Water Resources Research</i> , 2009, 45, .	4.2	115