

Matthew W Becker

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,151
citations

394421

19
h-index

501196

28
g-index

33
all docs

33
docs citations

33
times ranked

1054
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracer transport in fractured crystalline rock: Evidence of nondiffusive breakthrough tailing. <i>Water Resources Research</i> , 2000, 36, 1677-1686.	4.2	259
2	Interpreting tracer breakthrough tailing from different forced-gradient tracer experiment configurations in fractured bedrock. <i>Water Resources Research</i> , 2003, 39, .	4.2	136
3	Bacterial Transport Experiments in Fractured Crystalline Bedrock. <i>Ground Water</i> , 2003, 41, 682-689.	1.3	70
4	Fracture hydromechanical response measured by fiber optic distributed acoustic sensing at milliHertz frequencies. <i>Geophysical Research Letters</i> , 2017, 44, 7295-7302.	4.0	67
5	Effect of cell physicochemical characteristics and motility on bacterial transport in groundwater. <i>Journal of Contaminant Hydrology</i> , 2004, 69, 195-213.	3.3	64
6	Joint estimation of transmissivity and storativity in a bedrock fracture. <i>Water Resources Research</i> , 2011, 47, .	4.2	53
7	Ground-penetrating-radar response to fracture-fluid salinity: Why lower frequencies are favorable for resolving salinity changes. <i>Geophysics</i> , 2008, 73, J25-J30.	2.6	52
8	Measuring well hydraulic connectivity in fractured bedrock using periodic slug tests. <i>Journal of Hydrology</i> , 2015, 521, 100-107.	5.4	48
9	Four dimensional mapping of tracer channelization in subhorizontal bedrock fractures using surface ground penetrating radar. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	40
10	Use of deuterated water as a conservative artificial groundwater tracer. <i>Hydrogeology Journal</i> , 2001, 9, 512-516.	2.1	34
11	First-passage-time transfer functions for groundwater tracer tests conducted in radially convergent flow. <i>Journal of Contaminant Hydrology</i> , 2000, 40, 299-310.	3.3	32
12	Comparing flux-averaged and resident concentration in a fractured bedrock using ground penetrating radar. <i>Water Resources Research</i> , 2010, 46, .	4.2	27
13	Distributed Acoustic Sensing of Strain at Earth Tide Frequencies. <i>Sensors</i> , 2019, 19, 1975.	3.8	27
14	Evaluation of inert tracers in a bedrock fracture using ground penetrating radar and thermal sensors. <i>Geothermics</i> , 2017, 67, 86-94.	3.4	26
15	Measurement and simulation of heat exchange in fractured bedrock using inert and thermally degrading tracers. <i>Water Resources Research</i> , 2017, 53, 1210-1230.	4.2	26
16	Measuring Artificial Recharge with Fiber Optic Distributed Temperature Sensing. <i>Ground Water</i> , 2013, 51, 670-678.	1.3	24
17	Inert and Adsorptive Tracer Tests for Field Measurement of Flow-Wetted Surface Area. <i>Water Resources Research</i> , 2018, 54, 5341-5358.	4.2	23
18	Cross-polarized GPR imaging of fracture flow channeling. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 776-784.	3.2	20

#	ARTICLE	IF	CITATIONS
19	Enhancement of aquifer vulnerability indexing using the analytic-element method. <i>Environmental Geology</i> , 2004, 45, 1054-1061.	1.2	19
20	Distributed Acoustic Sensing as a Distributed Hydraulic Sensor in Fractured Bedrock. <i>Water Resources Research</i> , 2020, 56, e2020WR028140.	4.2	17
21	Development of a numerical groundwater flow model using SRTM elevations. <i>Hydrogeology Journal</i> , 2007, 15, 171-181.	2.1	16
22	Combining periodic hydraulic tests and surface tilt measurements to explore in situ fracture hydromechanics. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6046-6066.	3.4	14
23	Predictive Inverse Model for Advective Heat Transfer in a Short-Circuited Fracture: Dimensional Analysis, Machine Learning, and Field Demonstration. <i>Water Resources Research</i> , 2020, 56, e2020WR027065.	4.2	13
24	Laboratory testing of low-frequency strain measured by distributed acoustic sensing (DAS)., 2018, , .		12
25	Magnetic resonance imaging of dense and light non-aqueous phase liquid in a rock fracture. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	9
26	Distributed Temperature Sensing to Measure Infiltration Rates Across a Groundwater Recharge Basin. <i>Ground Water</i> , 2020, 58, 913-923.	1.3	9
27	Influence of numerical precision on the calibration of AEM-based groundwater flow models. <i>Environmental Geology</i> , 2005, 48, 57-67.	1.2	5
28	An Introduction to Ground-Water Modeling Using Virtual Reality Modeling Language (VRML). <i>Journal of Geoscience Education</i> , 2003, 51, 506-511.	1.4	4
29	Effect of tracer buoyancy on tracer experiments conducted in fractured crystalline bedrock. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	3
30	Examining meter-scale fluid channelization in a subhorizontal bedrock fracture by tracking high-salinity tracer using surface ground penetrating radar. , 2005, , .		0