Matthew W Becker

List of Publications by Year in descending order

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	Predictive Inverse Model for Advective Heat Transfer in a Short‐Circuited Fracture: Dimensional Analysis, Machine Learning, and Field Demonstration. Water Resources Research, 2020, 56, e2020WR027065.	4.2	13
2	Distributed Acoustic Sensing as a Distributed Hydraulic Sensor in Fractured Bedrock. Water Resources Research, 2020, 56, e2020WR028140.	4.2	17
3	Distributed Temperature Sensing to Measure Infiltration Rates Across a Groundwater Recharge Basin. Ground Water, 2020, 58, 913-923.	1.3	9
4	Distributed Acoustic Sensing of Strain at Earth Tide Frequencies. Sensors, 2019, 19, 1975.	3.8	27
5	Inert and Adsorptive Tracer Tests for Field Measurement of Flow‐Wetted Surface Area. Water Resources Research, 2018, 54, 5341-5358.	4.2	23
6	Laboratory testing of low-frequency strain measured by distributed acoustic sensing (DAS). , 2018, , .		12
7	Evaluation of inert tracers in a bedrock fracture using ground penetrating radar and thermal sensors. Geothermics, 2017, 67, 86-94.	3.4	26
8	Measurement and simulation of heat exchange in fractured bedrock using inert and thermally degrading tracers. Water Resources Research, 2017, 53, 1210-1230.	4.2	26
9	Combining periodic hydraulic tests and surface tilt measurements to explore in situ fracture hydromechanics. Journal of Geophysical Research: Solid Earth, 2017, 122, 6046-6066.	3.4	14
10	Fracture hydromechanical response measured by fiber optic distributed acoustic sensing at milliHertz frequencies. Geophysical Research Letters, 2017, 44, 7295-7302.	4.0	67
11	Cross-polarized GPR imaging of fracture flow channeling. Journal of Earth Science (Wuhan, China), 2015, 26, 776-784.	3.2	20
12	Measuring well hydraulic connectivity in fractured bedrock using periodic slug tests. Journal of Hydrology, 2015, 521, 100-107.	5.4	48
13	Measuring Artificial Recharge with Fiber Optic Distributed Temperature Sensing. Ground Water, 2013, 51, 670-678.	1.3	24
14	Joint estimation of transmissivity and storativity in a bedrock fracture. Water Resources Research, 2011, 47, .	4.2	53
15	Comparing flux‐averaged and resident concentration in a fractured bedrock using ground penetrating radar. Water Resources Research, 2010, 46, .	4.2	27
16	Ground-penetrating-radar response to fracture-fluid salinity: Why lower frequencies are favorable for resolving salinity changes. Geophysics, 2008, 73, J25-J30.	2.6	52
17	Development of a numerical groundwater flow model using SRTM elevations. Hydrogeology Journal, 2007, 15, 171-181.	2.1	16
18	Influence of numerical precision on the calibration of AEM-based groundwater flow models. Environmental Geology, 2005, 48, 57-67.	1.2	5

#	Article	IF	Citations
19	Four dimensional mapping of tracer channelization in subhorizontal bedrock fractures using surface ground penetrating radar. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	40
20	Examining meter‐scale fluid channelization in a subhorizontal bedrock fracture by tracking high‐salinity tracer using surface ground penetrating radar. , 2005, , .		0
21	Effect of cell physicochemical characteristics and motility on bacterial transport in groundwater. Journal of Contaminant Hydrology, 2004, 69, 195-213.	3.3	64
22	Enhancement of aquifer vulnerability indexing using the analytic-element method. Environmental Geology, 2004, 45, 1054-1061.	1.2	19
23	Bacterial Transport Experiments in Fractured Crystalline Bedrock. Ground Water, 2003, 41, 682-689.	1.3	70
24	Interpreting tracer breakthrough tailing from different forced-gradient tracer experiment configurations in fractured bedrock. Water Resources Research, 2003, 39, .	4.2	136
25	Effect of tracer buoyancy on tracer experiments conducted in fractured crystalline bedrock. Geophysical Research Letters, 2003, 30, .	4.0	3
26	Magnetic resonance imaging of dense and light non-aqueous phase liquid in a rock fracture. Geophysical Research Letters, 2003, 30, .	4.0	9
27	An Introduction to Ground-Water Modeling Using Virtual Reality Modeling Language (VRML). Journal of Geoscience Education, 2003, 51, 506-511.	1.4	4
28	Use of deuterated water as a conservative artificial groundwater tracer. Hydrogeology Journal, 2001, 9, 512-516.	2.1	34
29	First-passage-time transfer functions for groundwater tracer tests conducted in radially convergent flow. Journal of Contaminant Hydrology, 2000, 40, 299-310.	3.3	32
30	Tracer transport in fractured crystalline rock: Evidence of nondiffusive breakthrough tailing. Water Resources Research, 2000, 36, 1677-1686.	4.2	259