

# M Bayani Cardenas

## List of Publications by Citations

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142  
papers

6,238  
citations

45  
h-index

73  
g-index

151  
ext. papers

7,219  
ext. citations

5.6  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
142	The global volume and distribution of modern groundwater. <i>Nature Geoscience</i> , <b>2016</b> , 9, 161-167	18.3	312
141	Impact of heterogeneity, bed forms, and stream curvature on subchannel hyporheic exchange. <i>Water Resources Research</i> , <b>2004</b> , 40,	5.4	300
140	Denitrification in the Mississippi River network controlled by flow through river bedforms. <i>Nature Geoscience</i> , <b>2015</b> , 8, 941-945	18.3	190
139	Dunes, turbulent eddies, and interfacial exchange with permeable sediments. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	171
138	Nutrient cycling in bedform induced hyporheic zones. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 84, 47-61	5.5	152
137	Surface water-groundwater interface geomorphology leads to scaling of residence times. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	138
136	Hyporheic flow and residence time distributions in heterogeneous cross-bedded sediment. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	137
135	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. <i>Nature Geoscience</i> , <b>2017</b> , 10, 425-429	18.3	134
134	Impact of dam operations on hyporheic exchange in the riparian zone of a regulated river. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2129-2137	3.3	132
133	Exchange across a sediment-water interface with ambient groundwater discharge. <i>Journal of Hydrology</i> , <b>2007</b> , 346, 69-80	6	126
132	Hydrodynamics of coupled flow above and below a sediment-water interface with triangular bedforms. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 301-313	4.7	121
131	The influence of ambient groundwater discharge on exchange zones induced by current-bedform interactions. <i>Journal of Hydrology</i> , <b>2006</b> , 331, 103-109	6	120
130	Stream-aquifer interactions and hyporheic exchange in gaining and losing sinuous streams. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	115
129	Pore-scale trapping of supercritical CO <sub>2</sub> and the role of grain wettability and shape. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3878-3882	4.9	105
128	Potential contribution of topography-driven regional groundwater flow to fractal stream chemistry: Residence time distribution analysis of the flow. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	104
127	Residence time of bedform-driven hyporheic exchange. <i>Advances in Water Resources</i> , <b>2008</b> , 31, 1382-1386	4.7	104
126	Three-dimensional model of modern channel bend deposits. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	99

125	Modification of the Local Cubic Law of fracture flow for weak inertia, tortuosity, and roughness. <i>Water Resources Research</i> , <b>2015</b> , 51, 2064-2080	5.4	96
124	Lateral hyporheic exchange throughout the Mississippi River network. <i>Nature Geoscience</i> , <b>2014</b> , 7, 413-418	3	94
123	Hyporheic zone hydrologic science: A historical account of its emergence and a prospectus. <i>Water Resources Research</i> , <b>2015</b> , 51, 3601-3616	5.4	94
122	Navier-Stokes flow and transport simulations using real fractures shows heavy tailing due to eddies. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	88
121	Dynamics of hyporheic flow and heat transport across a bed-to-bank continuum in a large regulated river. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	82
120	Hyporheic exchange due to channel-spanning logs. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	81
119	Residence time distributions in sinuosity-driven hyporheic zones and their biogeochemical effects. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	72
118	Constraining denitrification in permeable wave-influenced marine sediment using linked hydrodynamic and biogeochemical modeling. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 275, 127-137	5.3	72
117	Effects of currentBed form induced fluid flow on the thermal regime of sediments. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	72
116	The effect of river bend morphology on flow and timescales of surface water-groundwater exchange across pointbars. <i>Journal of Hydrology</i> , <b>2008</b> , 362, 134-141	6	67
115	A comparative experimental and multiphysics computational fluid dynamics study of coupled surface-subsurface flow in bed forms. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	65
114	Quantifying denitrification in rippled permeable sands through combined flume experiments and modeling. <i>Limnology and Oceanography</i> , <b>2012</b> , 57, 1217-1232	4.8	65
113	Groundwater flow, transport, and residence times through topography-driven basins with exponentially decreasing permeability and porosity. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	64
112	Water table dynamics and groundwater-surface water interaction during filling and draining of a large fluvial island due to dam-induced river stage fluctuations. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	60
111	Effects of inertia and directionality on flow and transport in a rough asymmetric fracture. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		58
110	Hyporheic temperature dynamics and heat exchange near channel-spanning logs. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	57
109	Vegetation controls on soil moisture distribution in the Valles Caldera, New Mexico, during the North American monsoon. <i>Ecohydrology</i> , <b>2008</b> , 1, 225-238	2.5	57
108	Simultaneous rejuvenation and aging of groundwater in basins due to depth-decaying hydraulic conductivity and porosity. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	55

107	Ground-based thermography of fluvial systems at low and high discharge reveals potential complex thermal heterogeneity driven by flow variation and bioroughness. <i>Hydrological Processes</i> , <b>2008</b> , 22, 980-986	3.3	55
106	Denitrification in the banks of fluctuating rivers: The effects of river stage amplitude, sediment hydraulic conductivity and dispersivity, and ambient groundwater flow. <i>Water Resources Research</i> , <b>2017</b> , 53, 7951-7967	5.4	53
105	Non-Fickian transport through two-dimensional rough fractures: Assessment and prediction. <i>Water Resources Research</i> , <b>2014</b> , 50, 871-884	5.4	53
104	Transport zonation limits coupled nitrification-denitrification in permeable sediments. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13404-11	10.3	53
103	The importance and challenge of hyporheic mixing. <i>Water Resources Research</i> , <b>2017</b> , 53, 3565-3575	5.4	52
102	A model for lateral hyporheic flow based on valley slope and channel sinuosity. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	52
101	Geoelectrical imaging of hyporheic exchange and mixing of river water and groundwater in a large regulated river. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1407-11	10.3	51
100	Three-dimensional vortices in single pores and their effects on transport. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	51
99	Effects of multiscale anisotropy on basin and hyporheic groundwater flow. <i>Ground Water</i> , <b>2011</b> , 49, 576-83	3.1	49
98	Diel heat transport within the hyporheic zone of a pool-riffle-pool sequence of a losing stream and evaluation of models for fluid flux estimation using heat. <i>Limnology and Oceanography</i> , <b>2010</b> , 55, 1741-1754	4.8	47
97	Evolution of hydraulic conductivity in the floodplain of a meandering river due to hyporheic transport of fine materials. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	45
96	Ex-Stream: A MATLAB program for calculating fluid flux through sediment-water interfaces based on steady and transient temperature profiles. <i>Computers and Geosciences</i> , <b>2011</b> , 37, 1664-1669	4.5	45
95	Linking regional sources and pathways for submarine groundwater discharge at a reef by electrical resistivity tomography, 222Rn, and salinity measurements. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	45
94	Gradual onset and recovery of the Younger Dryas abrupt climate event in the tropics. <i>Nature Communications</i> , <b>2015</b> , 6, 8061	17.4	44
93	The role of eddies inside pores in the transition from Darcy to Forchheimer flows. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	44
92	Devastation of aquifers from tsunami-like storm surge by Super typhoon Haiyan. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 2844-2851	4.9	43
91	A simple constant-head injection test for streambed hydraulic conductivity estimation. <i>Ground Water</i> , <b>2003</b> , 41, 867-71	2.4	43
90	Temperature effects on nitrogen cycling and nitrate removal-production efficiency in bed form-induced hyporheic zones. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 1086-1103	3.7	40

89	Chemical and Hydrodynamic Mechanisms for Long-Term Geological Carbon Storage. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15103-15113	3.8	39
88	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1118-1122	4.9	39
87	Development of an empirical model relating permeability and specific stiffness for rough fractures from numerical deformation experiments. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 4977-4989	2.6	38
86	Hyporheic hot moments: Dissolved oxygen dynamics in the hyporheic zone in response to surface flow perturbations. <i>Water Resources Research</i> , <b>2017</b> , 53, 6642-6662	5.4	38
85	Heat transport dynamics at a sandy intertidal zone. <i>Water Resources Research</i> , <b>2013</b> , 49, 3770-3786	5.4	37
84	Groundwater as a major source of dissolved organic matter to Arctic coastal waters. <i>Nature Communications</i> , <b>2020</b> , 11, 1479	17.4	36
83	Pore geometry effects on intrapore viscous to inertial flows and on effective hydraulic parameters. <i>Water Resources Research</i> , <b>2013</b> , 49, 1149-1162	5.4	36
82	Effect of permeable biofilm on micro- and macro-scale flow and transport in bioclogged pores. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11092-8	10.3	36
81	Effect of experimental wood addition on hyporheic exchange and thermal dynamics in a losing meadow stream. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	34
80	Dynamics of groundwater-derived nitrate and nitrous oxide in a tidal estuary from radon mass balance modeling. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 1689-1706	4.8	34
79	Thermal regime of dune-covered sediments under gaining and losing water bodies. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		34
78	Groundwater Flow and Exchange Across the Land Surface Explain Carbon Export Patterns in Continuous Permafrost Watersheds. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7596-7605	4.9	33
77	Flow and Residence Times of Dynamic River Bank Storage and Sinuosity-Driven Hyporheic Exchange. <i>Water Resources Research</i> , <b>2017</b> , 53, 8572-8595	5.4	32
76	Nutrient inputs from submarine groundwater discharge on the Santiago reef flat, Bolinao, Northwestern Philippines. <i>Marine Pollution Bulletin</i> , <b>2011</b> , 63, 195-200	6.7	32
75	The effect of organic matter and thermal maturity on the wettability of supercritical CO <sub>2</sub> on organic shales. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 65, 15-22	4.2	31
74	Theory for dynamic longitudinal dispersion in fractures and rivers with Poiseuille flow. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	30
73	Transition from non-Fickian to Fickian longitudinal transport through 3-D rough fractures: Scale-(in)sensitivity and roughness dependence. <i>Journal of Contaminant Hydrology</i> , <b>2017</b> , 198, 1-10	3.9	29
72	Three-dimensional versus two-dimensional bed form-induced hyporheic exchange. <i>Water Resources Research</i> , <b>2015</b> , 51, 2923-2936	5.4	29

71	Estimating submarine groundwater discharge in a South Pacific coral reef lagoon using different radioisotope and geophysical approaches. <i>Marine Chemistry</i> , <b>2013</b> , 156, 49-60	3.7	28
70	Thermal skin effect of pipes in streambeds and its implications on groundwater flux estimation using diurnal temperature signals. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	28
69	Extended Roof snap-off for a continuous nonwetting fluid and an example case for supercritical CO <sub>2</sub> . <i>Advances in Water Resources</i> , <b>2014</b> , 64, 34-46	4.7	26
68	Mass Transfer Between Recirculation and Main Flow Zones: Is Physically Based Parameterization Possible?. <i>Water Resources Research</i> , <b>2019</b> , 55, 345-362	5.4	26
67	Dynamics and dislodgment from pore constrictions of a trapped nonwetting droplet stimulated by seismic waves. <i>Water Resources Research</i> , <b>2013</b> , 49, 4206-4218	5.4	25
66	Universal Relationship Between Viscous and Inertial Permeability of Geologic Porous Media. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1441-1448	4.9	24
65	Soil moisture variation and dynamics across a wildfire burn boundary in a loblolly pine ( <i>Pinus taeda</i> ) forest. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 490-502	6	24
64	An efficient quasi-3D particle tracking-based approach for transport through fractures with application to dynamic dispersion calculation. <i>Journal of Contaminant Hydrology</i> , <b>2015</b> , 179, 47-54	3.9	24
63	Influence of dynamic factors on nonwetting fluid snap-off in pores. <i>Water Resources Research</i> , <b>2015</b> , 51, 9182-9189	5.4	23
62	Active layer freeze-thaw and water storage dynamics in permafrost environments inferred from InSAR. <i>Remote Sensing of Environment</i> , <b>2020</b> , 248, 112007	13.2	23
61	Analysis of the temperature dynamics of a proglacial river using time-lapse thermal imaging and energy balance modeling. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 1963-1973	6	22
60	Identifying origins of and pathways for spring waters in a semiarid basin using He, Sr, and C isotopes: Cuatrociénegas Basin, Mexico <b>2013</b> , 9, 113-125		22
59	The rapid yet uneven turnover of Earth's groundwater. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5511-5520.	4.9	21
58	Groundwater flow, nutrient, and stable isotope dynamics in the parafluvial-hyporheic zone of the regulated Lower Colorado River (Texas, USA) over the course of a small flood. <i>Hydrogeology Journal</i> , <b>2016</b> , 24, 923-935	3.1	21
57	Ripple Effects: Bed Form Morphodynamics Cascading Into Hyporheic Zone Biogeochemistry. <i>Water Resources Research</i> , <b>2019</b> , 55, 7320-7342	5.4	21
56	Heat transport in hyporheic zones due to bedforms: An experimental study. <i>Water Resources Research</i> , <b>2014</b> , 50, 3568-3582	5.4	21
55	Enhancement of denitrification in permeable carbonate sediment due to intra-granular porosity: A multi-scale modelling analysis. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 141, 440-453	5.5	21
54	Lessons from and assessment of Boussinesq aquifer modeling of a large fluvial island in a dam-regulated river. <i>Advances in Water Resources</i> , <b>2010</b> , 33, 1359-1366	4.7	21

53	Wettability measurement under high P-T conditions using X-ray imaging with application to the brine-supercritical CO <sub>2</sub> system. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 2858-2864	3.6	20
52	Geoelectrical signals of geologic and hydrologic processes in a fringing reef lagoon setting. <i>Journal of Hydrology</i> , <b>2014</b> , 517, 508-520	6	19
51	The isotope effect of denitrification in permeable sediments. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 133, 156-167	5.5	18
50	High-resolution in-situ thermal imaging of microbial mats at El Tatio Geyser, Chile shows coupling between community color and temperature. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	18
49	Hyporheic Exchange Driven by Three-Dimensional Sandy Bed Forms: Sensitivity to and Prediction from Bed Form Geometry. <i>Water Resources Research</i> , <b>2018</b> , 54, 4131-4149	5.4	18
48	Hyporheic flow and dissolved oxygen distribution in fish nests: The effects of open channel velocity, permeability patterns, and groundwater upwelling. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 3113-3130	3.7	17
47	Active Layer Groundwater Flow: The Interrelated Effects of Stratigraphy, Thaw, and Topography. <i>Water Resources Research</i> , <b>2019</b> , 55, 6555-6576	5.4	17
46	Classification and delineation of groundwater-lake interactions in the Nebraska Sand Hills (USA) using electrical resistivity patterns. <i>Hydrogeology Journal</i> , <b>2012</b> , 20, 1483-1495	3.1	17
45	Wave-driven porewater and solute circulation through rippled elastic sediment under highly transient forcing. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , <b>2011</b> , 1, 23-37		17
44	Climate, river network, and vegetation cover relationships across a climate gradient and their potential for predicting effects of decadal-scale climate change. <i>Journal of Hydrology</i> , <b>2013</b> , 488, 101-109	6	16
43	Comparison of hyporheic exchange under covered and uncovered channels based on linked surface and groundwater flow simulations. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	16
42	The negligible effect of bed form migration on denitrification in hyporheic zones of permeable sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 538-548	3.7	15
41	Application of high-resolution, remotely sensed data for transient storage modeling parameter estimation. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	15
40	Direct simulation of pore level Fickian dispersion scale for transport through dense cubic packed spheres with vortices. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2009</b> , 10, n/a-n/a	3.6	15
39	The Sensitivity of Hyporheic Exchange to Fractal Properties of Riverbeds. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026560	5.4	12
38	Hydraulic and thermal response of groundwater-surface water exchange to flooding in an experimental aquifer. <i>Journal of Hydrology</i> , <b>2012</b> , 472-473, 184-192	6	12
37	An analytical approach for flow analysis in aquifers with spatially varying top boundary. <i>Ground Water</i> , <b>2015</b> , 53, 335-41	2.4	11
36	Flexible and Modular Simultaneous Modeling of Flow and Reactive Transport in Rivers and Hyporheic Zones. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026528	5.4	11



35	Disentangling the Simultaneous Effects of Inertial Losses and Fracture Dilation on Permeability of Pressurized Fractured Rocks. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 8862-8871	4.9	11
34	Analysis of the Effects of Dam Release Properties and Ambient Groundwater Flow on Surface Water-Groundwater Exchange Over a 100-km-Long Reach. <i>Water Resources Research</i> , <b>2019</b> , 55, 8526-8546	5.4	11
33	Diel Stream Temperature Effects on Nitrogen Cycling in Hyporheic Zones. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2743-2760	3.7	10
32	High-resolution mapping of river-hydrothermal water mixing: Yellowstone National Park. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 2765-2777	3.1	10
31	Textural and compositional controls on mudrock breakthrough pressure and permeability. <i>Advances in Water Resources</i> , <b>2018</b> , 121, 162-172	4.7	10
30	The Impact of the Degree of Aquifer Confinement and Anisotropy on Tidal Pulse Propagation. <i>Ground Water</i> , <b>2017</b> , 55, 519-531	2.4	9
29	Offshore Submarine Groundwater Discharge at a Coral Reef Front Controlled by Faults. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3170-3185	3.6	9
28	The effects of floods on the temperature of riparian groundwater. <i>Hydrological Processes</i> , <b>2018</b> , 32, 1267-1281	3.3	9
27	Experimental and simulation study of carbon dioxide, brine, and muscovite surface interactions. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 155, 78-88	4.4	9
26	Submarine Groundwater and Vent Discharge in a Volcanic Area Associated With Coastal Acidification. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085730	4.9	9
25	The Complexity of Nonlinear Flow and non-Fickian Transport in Fractures Driven by Three-Dimensional Recirculation Zones. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2020JB020028	3.6	8
24	Seasonal Shifts in Soil Moisture throughout a Semiarid Hillslope Ecotone during Drought: A Geoelectrical View. <i>Vadose Zone Journal</i> , <b>2017</b> , 16, vj2016.11.0108	2.7	8
23	Seawater-groundwater mixing in and fluxes from coastal sediment overlying discrete fresh seepage zones: A modeling study. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 6565-6582	3.3	8
22	Terrestrial smokers: Thermal springs due to hydrothermal convection of groundwater connected to surface water. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	7
21	Analysis of turbulent nonisothermal mixing between a jet and cooler ambient water using thermal imagery. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	7
20	Linear permeability evolution of expanding conduits due to feedback between flow and fast phase change. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4116-4123	4.9	6
19	Empirical Models for Predicting Water and Heat Flow Properties of Permafrost Soils. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087646	4.9	6
18	Absence of ice-bonded permafrost beneath an Arctic lagoon revealed by electrical geophysics. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	6



17	Diel stream temperature regimes of Bukovsky regions of the conterminous United States. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2264-2271	4.9	5
16	Assessing student understanding of physical hydrology. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 829-836	5.5	5
15	Connecting Pressure-Saturation and Relative Permeability Models to Fracture Properties: The Case of Capillary-Dominated Flow of Supercritical CO <sub>2</sub> and Brine. <i>Water Resources Research</i> , <b>2018</b> , 54, 6965-6982	5.4	5
14	Analysis of permeability change in dissolving rough fractures using depth-averaged flow and reactive transport models. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 91, 102824	4.2	3
13	Comment on Flow resistance and bed form geometry in a wide alluvial channel by Shu-Qing Yang, Soon-Keat Tan, and Siow-Yong Lim. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	3
12	Tracing Bank Storage and Hyporheic Exchange Dynamics Using <sup>222</sup> Rn: Virtual and Field Tests and Comparison With Other Tracers. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR028960	5.4	3
11	Two-Phase Fluid Flow Properties of Rough Fractures With Heterogeneous Wettability: Analysis With Lattice Boltzmann Simulations. <i>Water Resources Research</i> , <b>2021</b> , 57,	5.4	3
10	The Effect of Modeling and Visualization Resources on Student Understanding of Physical Hydrology. <i>Journal of Geoscience Education</i> , <b>2015</b> , 63, 127-139	1.8	2
9	Resonance of droplets in constricted capillary tubes: Critical factors and nonlinearity. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	2
8	Riverbed Temperature and Heat Transport in a Hydropeaked River. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR029609	5.4	2
7	Hyporheic Exchange Driven by Submerged Rigid Vegetation: A Modeling Study. <i>Water Resources Research</i> , <b>2021</b> , 57, e2019WR026675	5.4	2
6	Submarine Groundwater Discharge Releases CO <sub>2</sub> to a Coral Reef. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 1756-1764		1
5	Hyporheic Exchange in Sand Dunes Under a Freely Deforming River Water Surface. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR028817	5.4	0
4	Aquifer Diffusivity Estimation Through Joint Inversion of the Amplitude Ratios and Time Lags of Dominant Frequencies of Fluctuating Head. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR027912	5.4	0
3	Groundwater-surface water interactions in a river estuary and the importance of geomorphology: Insights from hydraulic, thermal and geophysical observations. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14372	3.3	0
2	The effect of permeability on Darcy-to-Forchheimer flow transition. <i>Journal of Hydrology</i> , <b>2022</b> , 610, 127836	6	0
1	Enabling the Application of Large Footprint Open-Bottom Permeameters Through New Shape Factors. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR029315	5.4	