

M Bayani Cardenas

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

8,225
citations

34016

52
h-index

54797

84
g-index

151
all docs

151
docs citations

151
times ranked

5812
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyporheic Exchange Due to Cobbles on Sandy Beds. <i>Water Resources Research</i> , 2022, 58, .	1.7	3
2	The effect of permeability on Darcy-to-Forchheimer flow transition. <i>Journal of Hydrology</i> , 2022, 610, 127836.	2.3	6
3	Closing the Global Marine ²²⁶ Ra Budget Reveals the Biological Pump as a Dominant Removal Flux in the Upper Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
4	Two-Phase Fluid Flow Properties of Rough Fractures With Heterogeneous Wettability: Analysis With Lattice Boltzmann Simulations. <i>Water Resources Research</i> , 2021, 57, .	1.7	8
5	Evaluating a Laboratory Flume Microbiome as a Window Into Natural Riverbed Biogeochemistry. <i>Frontiers in Water</i> , 2021, 3, .	1.0	3
6	Hyporheic Exchange in Sand Dunes Under a Freely Deforming River Water Surface. <i>Water Resources Research</i> , 2021, 57, e2020WR028817.	1.7	6
7	Riverbed Temperature and Heat Transport in a Hydropeaked River. <i>Water Resources Research</i> , 2021, 57, e2021WR029609.	1.7	9
8	Enabling the Application of Large Footprint Open-Bottom Permeameters Through New Shape Factors. <i>Water Resources Research</i> , 2021, 57, e2020WR029315.	1.7	1
9	Tracing Bank Storage and Hyporheic Exchange Dynamics Using ²²² Rn: Virtual and Field Tests and Comparison With Other Tracers. <i>Water Resources Research</i> , 2021, 57, e2020WR028960.	1.7	10
10	Aquifer Diffusivity Estimation Through Joint Inversion of the Amplitude Ratios and Time Lags of Dominant Frequencies of Fluctuating Head. <i>Water Resources Research</i> , 2021, 57, e2020WR027912.	1.7	3
11	Hyporheic Exchange Driven by Submerged Rigid Vegetation: A Modeling Study. <i>Water Resources Research</i> , 2021, 57, e2019WR026675.	1.7	12
12	Submarine Groundwater Discharge Releases CO ₂ to a Coral Reef. <i>ACS ES&T Water</i> , 2021, 1, 1756-1764.	2.3	9
13	Groundwater-surface water interactions in a river estuary and the importance of geomorphology: Insights from hydraulic, thermal and geophysical observations. <i>Hydrological Processes</i> , 2021, 35, e14372.	1.1	3
14	Aerobic respiration in riparian exchange zones of regulated river corridors. <i>Hydrological Processes</i> , 2021, 35, .	1.1	2
15	Submarine Groundwater and Vent Discharge in a Volcanic Area Associated With Coastal Acidification. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085730.	1.5	16
16	Active layer freeze-thaw and water storage dynamics in permafrost environments inferred from InSAR. <i>Remote Sensing of Environment</i> , 2020, 248, 112007.	4.6	51
17	Absence of ice-bonded permafrost beneath an Arctic lagoon revealed by electrical geophysics. <i>Science Advances</i> , 2020, 6, .	4.7	10
18	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> , 2020, 125, e2020JB020028.	1.4	30

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19	Empirical Models for Predicting Water and Heat Flow Properties of Permafrost Soils. Geophysical Research Letters, 2020, 47, e2020GL087646.	1.5	18
20	Groundwater as a major source of dissolved organic matter to Arctic coastal waters. Nature Communications, 2020, 11, 1479.	5.8	95
21	Flexible and Modular Simultaneous Modeling of Flow and Reactive Transport in Rivers and Hyporheic Zones. Water Resources Research, 2020, 56, e2019WR026528.	1.7	21
22	The Sensitivity of Hyporheic Exchange to Fractal Properties of Riverbeds. Water Resources Research, 2020, 56, e2019WR026560.	1.7	21
23	Resonance of droplets in constricted capillary tubes: Critical factors and nonlinearity. Physical Review Fluids, 2020, 5, .	1.0	3
24	Ripple Effects: Bed Form Morphodynamics Cascading Into Hyporheic Zone Biogeochemistry. Water Resources Research, 2019, 55, 7320-7342.	1.7	32
25	Disentangling the Simultaneous Effects of Inertial Losses and Fracture Dilation on Permeability of Pressurized Fractured Rocks. Geophysical Research Letters, 2019, 46, 8862-8871.	1.5	17
26	Active Layer Groundwater Flow: The Interrelated Effects of Stratigraphy, Thaw, and Topography. Water Resources Research, 2019, 55, 6555-6576.	1.7	29
27	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	1.5	0
28	Analysis of the Effects of Dam Release Properties and Ambient Groundwater Flow on Surface Water-Groundwater Exchange Over a 100-km Long Reach. Water Resources Research, 2019, 55, 8526-8546.	1.7	30
29	Analysis of permeability change in dissolving rough fractures using depth-averaged flow and reactive transport models. International Journal of Greenhouse Gas Control, 2019, 91, 102824.	2.3	5
30	Universal Relationship Between Viscous and Inertial Permeability of Geologic Porous Media. Geophysical Research Letters, 2019, 46, 1441-1448.	1.5	54
31	Offshore Submarine Groundwater Discharge at a Coral Reef Front Controlled by Faults. Geochemistry, Geophysics, Geosystems, 2019, 20, 3170-3185.	1.0	12
32	Mass Transfer Between Recirculation and Main Flow Zones: Is Physically Based Parameterization Possible?. Water Resources Research, 2019, 55, 345-362.	1.7	52
33	The effects of floods on the temperature of riparian groundwater. Hydrological Processes, 2018, 32, 1267-1281.	1.1	14
34	Connecting Pressure-Saturation and Relative Permeability Models to Fracture Properties: The Case of Capillary-Dominated Flow of Supercritical CO ₂ and Brine. Water Resources Research, 2018, 54, 6965-6982.	1.7	15
35	Textural and compositional controls on mudrock breakthrough pressure and permeability. Advances in Water Resources, 2018, 121, 162-172.	1.7	21
36	Appreciation of 2017 GRL Peer Reviewers. Geophysical Research Letters, 2018, 45, 4494-4528.	1.5	0

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37	Hyporheic Exchange Driven by Three-Dimensional Sandy Bed Forms: Sensitivity to and Prediction from Bed Form Geometry. <i>Water Resources Research</i> , 2018, 54, 4131-4149.	1.7	31
38	Groundwater Flow and Exchange Across the Land Surface Explain Carbon Export Patterns in Continuous Permafrost Watersheds. <i>Geophysical Research Letters</i> , 2018, 45, 7596-7605.	1.5	37
39	Diel Stream Temperature Effects on Nitrogen Cycling in Hyporheic Zones. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2743-2760.	1.3	20
40	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> , 2017, 198, 1-10.	1.6	44
41	Seasonal Shifts in Soil Moisture throughout a Semiarid Hillslope Ecotone during Drought: A Geoelectrical View. <i>Vadose Zone Journal</i> , 2017, 16, 1-17.	1.3	10
42	Diel stream temperature regimes of Bukovsky regions of the conterminous United States. <i>Geophysical Research Letters</i> , 2017, 44, 2264-2271.	1.5	9
43	The Impact of the Degree of Aquifer Confinement and Anisotropy on Tidal Pulse Propagation. <i>Ground Water</i> , 2017, 55, 519-531.	0.7	19
44	Linear permeability evolution of expanding conduits due to feedback between flow and fast phase change. <i>Geophysical Research Letters</i> , 2017, 44, 4116-4123.	1.5	12
45	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. <i>Nature Geoscience</i> , 2017, 10, 425-429.	5.4	210
46	The importance and challenge of hyporheic mixing. <i>Water Resources Research</i> , 2017, 53, 3565-3575.	1.7	77
47	The rapid yet uneven turnover of Earth's groundwater. <i>Geophysical Research Letters</i> , 2017, 44, 5511-5520.	1.5	27
48	Why and How to Write a High-Impact Review Paper: Lessons From Eight Years of Editorial Board Service to <i>Reviews of Geophysics</i> . <i>Reviews of Geophysics</i> , 2017, 55, 860-863.	9.0	1
49	Seawater-groundwater mixing in and fluxes from coastal sediment overlying discrete fresh seepage zones: A modeling study. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6565-6582.	1.0	9
50	The effect of organic matter and thermal maturity on the wettability of supercritical CO ₂ on organic shales. <i>International Journal of Greenhouse Gas Control</i> , 2017, 65, 15-22.	2.3	53
51	Hyporheic hot moments: Dissolved oxygen dynamics in the hyporheic zone in response to surface flow perturbations. <i>Water Resources Research</i> , 2017, 53, 6642-6662.	1.7	72
52	Experimental and simulation study of carbon dioxide, brine, and muscovite surface interactions. <i>Journal of Petroleum Science and Engineering</i> , 2017, 155, 78-88.	2.1	10
53	Flow and Residence Times of Dynamic River Bank Storage and Sinuosity-Driven Hyporheic Exchange. <i>Water Resources Research</i> , 2017, 53, 8572-8595.	1.7	53
54	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> , 2017, 53, 7951-7967.	1.7	95

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55	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> , 2016, 121, 3113-3130.	1.3	31
56	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> , 2016, 121, 4977-4989.	1.4	55
57	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> , 2016, 24, 923-935.	0.9	30
58	Temperature effects on nitrogen cycling and nitrate removal—production efficiency in bed form-induced hyporheic zones. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1086-1103.	1.3	56
59	The global volume and distribution of modern groundwater. <i>Nature Geoscience</i> , 2016, 9, 161-167.	5.4	450
60	Modification of the local cubic law of fracture flow for weak inertia, tortuosity, and roughness. <i>Water Resources Research</i> , 2015, 51, 2064-2080.	1.7	149
61	Hyporheic zone hydrologic science: A historical account of its emergence and a prospectus. <i>Water Resources Research</i> , 2015, 51, 3601-3616.	1.7	124
62	The negligible effect of bed form migration on denitrification in hyporheic zones of permeable sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 538-548.	1.3	18
63	Three-dimensional versus two-dimensional bed form-induced hyporheic exchange. <i>Water Resources Research</i> , 2015, 51, 2923-2936.	1.7	42
64	Wettability measurement under high P - T conditions using X -ray imaging with application to the brine-supercritical CO_2 system. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2858-2864.	1.0	21
65	Influence of dynamic factors on nonwetting fluid snap-off in pores. <i>Water Resources Research</i> , 2015, 51, 9182-9189.	1.7	32
66	Devastation of aquifers from tsunami-like storm surge by Super typhoon Haiyan. <i>Geophysical Research Letters</i> , 2015, 42, 2844-2851.	1.5	67
67	The Effect of Modeling and Visualization Resources on Student Understanding of Physical Hydrology. <i>Journal of Geoscience Education</i> , 2015, 63, 127-139.	0.8	4
68	An efficient quasi-3D particle tracking-based approach for transport through fractures with application to dynamic dispersion calculation. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 47-54.	1.6	29
69	Denitrification in the Mississippi River network controlled by flow through river bedforms. <i>Nature Geoscience</i> , 2015, 8, 941-945.	5.4	247
70	Gradual onset and recovery of the Younger Dryas abrupt climate event in the tropics. <i>Nature Communications</i> , 2015, 6, 8061.	5.8	55
71	An Analytical Approach for Flow Analysis in Aquifers with Spatially Varying Top Boundary. <i>Ground Water</i> , 2015, 53, 335-341.	0.7	16
72	Analysis of the temperature dynamics of a proglacial river using time-lapse thermal imaging and energy balance modeling. <i>Journal of Hydrology</i> , 2014, 519, 1963-1973.	2.3	27

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73	Non-Fickian transport through two-dimensional rough fractures: Assessment and prediction. <i>Water Resources Research</i> , 2014, 50, 871-884.	1.7	73
74	Heat transport in hyporheic zones due to bedforms: An experimental study. <i>Water Resources Research</i> , 2014, 50, 3568-3582.	1.7	27
75	Chemical and Hydrodynamic Mechanisms for Long-Term Geological Carbon Storage. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15103-15113.	1.5	50
76	Soil moisture variation and dynamics across a wildfire burn boundary in a loblolly pine (<i>Pinus taeda</i>) forest. <i>Journal of Hydrology</i> , 2014, 519, 490-502.	2.3	33
77	Enhancement of denitrification in permeable carbonate sediment due to intra-granular porosity: A multi-scale modelling analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 440-453.	1.6	27
78	Lateral hyporheic exchange throughout the Mississippi River network. <i>Nature Geoscience</i> , 2014, 7, 413-417.	5.4	116
79	Extended Roof snap-off for a continuous nonwetting fluid and an example case for supercritical CO ₂ . <i>Advances in Water Resources</i> , 2014, 64, 34-46.	1.7	35
80	Geoelectrical signals of geologic and hydrologic processes in a fringing reef lagoon setting. <i>Journal of Hydrology</i> , 2014, 517, 508-520.	2.3	22
81	The isotope effect of denitrification in permeable sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 156-167.	1.6	29
82	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> , 2013, 488, 101-109.	2.3	17
83	Dynamics and dislodgment from pore constrictions of a trapped nonwetting droplet stimulated by seismic waves. <i>Water Resources Research</i> , 2013, 49, 4206-4218.	1.7	29
84	Pore geometry effects on intrapore viscous to inertial flows and on effective hydraulic parameters. <i>Water Resources Research</i> , 2013, 49, 1149-1162.	1.7	52
85	Effect of Permeable Biofilm on Micro- And Macro-Scale Flow and Transport in Bioclogged Pores. <i>Environmental Science & Technology</i> , 2013, 47, 11092-11098.	4.6	44
86	Estimating submarine groundwater discharge in a South Pacific coral reef lagoon using different radioisotope and geophysical approaches. <i>Marine Chemistry</i> , 2013, 156, 49-60.	0.9	37
87	Heat transport dynamics at a sandy intertidal zone. <i>Water Resources Research</i> , 2013, 49, 3770-3786.	1.7	47
88	Transport Zonation Limits Coupled Nitrification-Denitrification in Permeable Sediments. <i>Environmental Science & Technology</i> , 2013, 47, 13404-13411.	4.6	65
89	Identifying origins of and pathways for spring waters in a semiarid basin using He, Sr, and C isotopes: Cuatrocienegas Basin, Mexico. , 2013, 9, 113-125.		41
90	Pore-scale trapping of supercritical CO ₂ and the role of grain wettability and shape. <i>Geophysical Research Letters</i> , 2013, 40, 3878-3882.	1.5	132

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91	Dynamics of groundwater-derived nitrate and nitrous oxide in a tidal estuary from radon mass balance modeling. <i>Limnology and Oceanography</i> , 2013, 58, 1689-1706.	1.6	41
92	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , 2013, 40, 1118-1122.	1.5	48
93	Assessing student understanding of physical hydrology. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 829-836.	1.9	5
94	Applications of DC resistivity for mapping hydrogeologic processes in coastal areas. , 2013, , .		0
95	Quantifying denitrification in rippled permeable sands through combined flume experiments and modeling. <i>Limnology and Oceanography</i> , 2012, 57, 1217-1232.	1.6	77
96	Residence time distributions in sinuosity-driven hyporheic zones and their biogeochemical effects. <i>Water Resources Research</i> , 2012, 48, .	1.7	87
97	Classification and delineation of groundwater-lake interactions in the Nebraska Sand Hills (USA) using electrical resistivity patterns. <i>Hydrogeology Journal</i> , 2012, 20, 1483-1495.	0.9	19
98	Nutrient cycling in bedform induced hyporheic zones. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 47-61.	1.6	191
99	Terrestrial smokers: Thermal springs due to hydrothermal convection of groundwater connected to surface water. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	10
100	Theory for dynamic longitudinal dispersion in fractures and rivers with Poiseuille flow. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	42
101	Hyporheic temperature dynamics and heat exchange near channel-spanning logs. <i>Water Resources Research</i> , 2012, 48, .	1.7	71
102	Application of high-resolution, remotely sensed data for transient storage modeling parameter estimation. <i>Water Resources Research</i> , 2012, 48, .	1.7	16
103	Effect of experimental wood addition on hyporheic exchange and thermal dynamics in a losing meadow stream. <i>Water Resources Research</i> , 2012, 48, .	1.7	44
104	A comparative experimental and multiphysics computational fluid dynamics study of coupled surface-subsurface flow in bed forms. <i>Water Resources Research</i> , 2012, 48, .	1.7	82
105	Hydraulic and thermal response of groundwater-surface water exchange to flooding in an experimental aquifer. <i>Journal of Hydrology</i> , 2012, 472-473, 184-192.	2.3	15
106	Geoelectrical Imaging of Hyporheic Exchange and Mixing of River Water and Groundwater in a Large Regulated River. <i>Environmental Science & Technology</i> , 2011, 45, 1407-1411.	4.6	61
107	Evolution of hydraulic conductivity in the floodplain of a meandering river due to hyporheic transport of fine materials. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	51
108	Dynamics of hyporheic flow and heat transport across a bed-to-bank continuum in a large regulated river. <i>Water Resources Research</i> , 2011, 47, .	1.7	95

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109	Analysis of turbulent nonisothermal mixing between a jet and cooler ambient water using thermal imagery. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	8
110	The role of eddies inside pores in the transition from Darcy to Forchheimer flows. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	67
111	Hyporheic exchange due to channel-spanning logs. <i>Water Resources Research</i> , 2011, 47, .	1.7	106
112	Effects of Multiscale Anisotropy on Basin and Hyporheic Groundwater Flow. <i>Ground Water</i> , 2011, 49, 576-583.	0.7	58
113	Nutrient inputs from submarine groundwater discharge on the Santiago reef flat, Bolinao, Northwestern Philippines. <i>Marine Pollution Bulletin</i> , 2011, 63, 195-200.	2.3	34
114	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> , 2011, 37, 1664-1669.	2.0	50
115	High-resolution mapping of river-hydrothermal water mixing: Yellowstone National Park. <i>International Journal of Remote Sensing</i> , 2011, 32, 2765-2777.	1.3	12
116	Wave-driven porewater and solute circulation through rippled elastic sediment under highly transient forcing. <i>Limnology & Oceanography Fluids & Environments</i> , 2011, 1, 23-37.	1.7	20
117	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> , 2010, 55, 1741-1754.	1.6	53
118	Lessons from and assessment of Boussinesq aquifer modeling of a large fluvial island in a dam-regulated river. <i>Advances in Water Resources</i> , 2010, 33, 1359-1366.	1.7	25
119	Thermal skin effect of pipes in streambeds and its implications on groundwater flux estimation using diurnal temperature signals. <i>Water Resources Research</i> , 2010, 46, .	1.7	31
120	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> , 2010, 46, .	1.7	76
121	Simultaneous rejuvenation and aging of groundwater in basins due to depth-decaying hydraulic conductivity and porosity. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	68
122	Linking regional sources and pathways for submarine groundwater discharge at a reef by electrical resistivity tomography, σ_{222} , and salinity measurements. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	58
123	Groundwater flow, transport, and residence times through topography-driven basins with exponentially decreasing permeability and porosity. <i>Water Resources Research</i> , 2010, 46, .	1.7	90
124	Impact of dam operations on hyporheic exchange in the riparian zone of a regulated river. <i>Hydrological Processes</i> , 2009, 23, 2129-2137.	1.1	170
125	Direct simulation of pore level Fickian dispersion scale for transport through dense cubic packed spheres with vortices. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	18
126	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> , 2009, 36, .	1.5	25

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127	Effects of inertia and directionality on flow and transport in a rough asymmetric fracture. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	74
128	A model for lateral hyporheic flow based on valley slope and channel sinuosity. <i>Water Resources Research</i> , 2009, 45, .	1.7	63
129	Hyporheic flow and residence time distributions in heterogeneous cross-bedded sediment. <i>Water Resources Research</i> , 2009, 45, .	1.7	158
130	Stream-aquifer interactions and hyporheic exchange in gaining and losing sinuous streams. <i>Water Resources Research</i> , 2009, 45, .	1.7	140
131	Residence time of bedform-driven hyporheic exchange. <i>Advances in Water Resources</i> , 2008, 31, 1382-1386.	1.7	121
132	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> , 2008, 22, 980-986.	1.1	60
133	Vegetation controls on soil moisture distribution in the Valles Caldera, New Mexico, during the North American monsoon. <i>Ecohydrology</i> , 2008, 1, 225-238.	1.1	66
134	The effect of river bend morphology on flow and timescales of surface water-groundwater exchange across pointbars. <i>Journal of Hydrology</i> , 2008, 362, 134-141.	2.3	75
135	Comparison of hyporheic exchange under covered and uncovered channels based on linked surface and groundwater flow simulations. <i>Water Resources Research</i> , 2008, 44, .	1.7	19
136	Constraining denitrification in permeable wave-influenced marine sediment using linked hydrodynamic and biogeochemical modeling. <i>Earth and Planetary Science Letters</i> , 2008, 275, 127-137.	1.8	81
137	Surface water-groundwater interface geomorphology leads to scaling of residence times. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	154
138	Three-dimensional vortices in single pores and their effects on transport. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	54
139	Exchange across a sediment-water interface with ambient groundwater discharge. <i>Journal of Hydrology</i> , 2007, 346, 69-80.	2.3	145
140	Potential contribution of topography-driven regional groundwater flow to fractal stream chemistry: Residence time distribution analysis of 10 ³ th flow. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	115
141	Effects of current-bed form induced fluid flow on the thermal regime of sediments. <i>Water Resources Research</i> , 2007, 43, .	1.7	82
142	Dunes, turbulent eddies, and interfacial exchange with permeable sediments. <i>Water Resources Research</i> , 2007, 43, .	1.7	205
143	Navier-Stokes flow and transport simulations using real fractures shows heavy tailing due to eddies. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	120
144	Thermal regime of dune-covered sediments under gaining and losing water bodies. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	37

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145	Hydrodynamics of coupled flow above and below a sediment-water interface with triangular bedforms. <i>Advances in Water Resources</i> , 2007, 30, 301-313.	1.7	136
146	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> , 2006, 42, .	1.7	3
147	The influence of ambient groundwater discharge on exchange zones induced by current-bedform interactions. <i>Journal of Hydrology</i> , 2006, 331, 103-109.	2.3	133
148	Impact of heterogeneity, bed forms, and stream curvature on subchannel hyporheic exchange. <i>Water Resources Research</i> , 2004, 40, .	1.7	354
149	A Simple Constant-Head Injection Test for Streambed Hydraulic Conductivity Estimation. <i>Ground Water</i> , 2003, 41, 867-871.	0.7	46
150	Three-dimensional model of modern channel bend deposits. <i>Water Resources Research</i> , 2003, 39, .	1.7	114