

Harihar Rajaram

List of Publications by Year in descending order

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102
papers

4,576
citations

94433

37
h-index

106344

65
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109
all docs

109
docs citations

109
times ranked

4307
citing authors

#	ARTICLE	IF	CITATIONS
1	From Fluid Flow to Coupled Processes in Fractured Rock: Recent Advances and New Frontiers. <i>Reviews of Geophysics</i> , 2022, 60, e2021RG000744.	23.0	61
2	Thank You to Our 2021 Peer Reviewers. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	0
3	Barometric Pumping Through Fractured Rock: A Mechanism for Venting Deep Methane to Mars' Atmosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
4	Topographic Correction of Geothermal Heat Flux in Greenland and Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005598.	2.8	19
5	Public data from three US states provide new insights into well integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
6	Seismic Diffusivity and the Influence of Heterogeneity on Injection-Induced Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021768.	3.4	6
7	Mitigating injection-induced seismicity to reduce seismic risk. <i>Earthquake Spectra</i> , 2021, 37, 2687-2713.	3.1	2
8	Thank You to Our 2020 Peer Reviewers. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093126.	4.0	0
9	Modeling Aspect-Controlled Evolution of Ground Thermal Regimes on Montane Hillslopes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006126.	2.8	3
10	Matrix Diffusion as a Mechanism Contributing to Fractal Stream Chemistry and Long-Tailed Transit Time Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094292.	4.0	5
11	Geoscientists, Who Have Documented the Rapid and Accelerating Climate Crisis for Decades, Are Now Pleading for Immediate Collective Action. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096644.	4.0	3
12	Importance and vulnerability of the world's water towers. <i>Nature</i> , 2020, 577, 364-369.	27.8	885
13	A generalized poroelastic model using FEniCS with insights into the Noordbergum effect. <i>Computers and Geosciences</i> , 2020, 135, 104399.	4.2	15
14	Energy Transfer by Turbulent Dissipation in Glacial Conduits. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005502.	2.8	3
15	Thank You to Our 2019 Peer Reviewers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088048.	4.0	0
16	Numerical Study of Solute Transport in Heterogeneous Beach Aquifers Subjected to Tides. <i>Water Resources Research</i> , 2020, 56, e2019WR026430.	4.2	27
17	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	4.0	0
18	Transport With Bimolecular Reactions in a Fracture-Matrix System: Analytical Solutions With Applications to In Situ Chemical Oxidation. <i>Water Resources Research</i> , 2019, 55, 3904-3924.	4.2	9

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19	Matrix Diffusion in Fractured Media: New Insights Into Power Law Scaling of Breakthrough Curves. <i>Geophysical Research Letters</i> , 2019, 46, 13785-13795.	4.0	30
20	Climate driven coevolution of weathering profiles and hillslope topography generates dramatic differences in critical zone architecture. <i>Hydrological Processes</i> , 2019, 33, 4-19.	2.6	35
21	Modeling Gas Migration, Sustained Casing Pressure, and Surface Casing Vent Flow in Onshore Oil and Gas Wells. <i>Water Resources Research</i> , 2019, 55, 298-323.	4.2	19
22	On the Representation of the Porosity-Pressure Relationship in General Subsurface Flow Codes. <i>Water Resources Research</i> , 2018, 54, 1382-1388.	4.2	7
23	Exploring basal sliding with a fluidity-based, ice-sheet model using FOSLS. <i>Numerical Linear Algebra With Applications</i> , 2018, 25, e2161.	1.6	2
24	SHAKTI: Subglacial Hydrology and Kinetic, Transient Interactions v1.0. <i>Geoscientific Model Development</i> , 2018, 11, 2955-2974.	3.6	24
25	Appreciation for <i>Water Resources Research</i> Reviewers. <i>Water Resources Research</i> , 2018, 54, 7114-7137.	4.2	0
26	Continent-wide estimates of Antarctic strain rates from Landsat 8-derived velocity grids. <i>Journal of Glaciology</i> , 2018, 64, 321-332.	2.2	40
27	A vision for <i>Water Resources Research</i> . <i>Water Resources Research</i> , 2017, 53, 4530-4532.	4.2	0
28	Surface Casing Pressure As an Indicator of Well Integrity Loss and Stray Gas Migration in the Wattenberg Field, Colorado. <i>Environmental Science & Technology</i> , 2017, 51, 3567-3574.	10.0	47
29	A Fluidity-Based First-Order System Least-Squares Method for Ice Sheets. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, B352-B374.	2.8	1
30	Appreciation of peer reviewers for 2016. <i>Water Resources Research</i> , 2017, 53, 4542-4561.	4.2	0
31	Coarse-scale particle tracking approaches for contaminant transport in fractured rock. <i>Applied Mathematical Modelling</i> , 2017, 41, 549-561.	4.2	7
32	Debates-”Stochastic subsurface hydrology from theory to practice: Introduction. <i>Water Resources Research</i> , 2016, 52, 9215-9217.	4.2	25
33	Modeling the WorldView-derived seasonal velocity evolution of Kennicott Glacier, Alaska. <i>Journal of Glaciology</i> , 2016, 62, 763-777.	2.2	20
34	Glacier crevasses: Observations, models, and mass balance implications. <i>Reviews of Geophysics</i> , 2016, 54, 119-161.	23.0	126
35	A similarity solution for reaction front propagation in a fracture-matrix system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150424.	3.4	8
36	Modeling the influence of preferential flow on the spatial variability and time-dependence of mineral weathering rates. <i>Water Resources Research</i> , 2016, 52, 9344-9366.	4.2	23

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37	Appreciation of peer reviewers for 2015. <i>Water Resources Research</i> , 2016, 52, 2380-2398.	4.2	0
38	Appreciation of peer reviewers for 2014. <i>Water Resources Research</i> , 2015, 51, 5869-5887.	4.2	0
39	A reflection on the first 50 years of <i>Water Resources Research</i> . <i>Water Resources Research</i> , 2015, 51, 7829-7837.	4.2	40
40	Imbibition of hydraulic fracturing fluids into partially saturated shale. <i>Water Resources Research</i> , 2015, 51, 6787-6796.	4.2	75
41	A transition in the spatially integrated reaction rate of bimolecular reaction-diffusion systems. <i>Water Resources Research</i> , 2015, 51, 7798-7810.	4.2	6
42	Considering thermalâ€viscous collapse of the Greenland ice sheet. <i>Earth's Future</i> , 2015, 3, 252-267.	6.3	21
43	Hydraulic fracturing fluid migration in the subsurface: A review and expanded modeling results. <i>Water Resources Research</i> , 2015, 51, 7159-7188.	4.2	121
44	Fifty years of <i>Water Resources Research</i> : Legacy and perspectives for the science of hydrology. <i>Water Resources Research</i> , 2015, 51, 6797-6803.	4.2	28
45	Fracture transmissivity evolution due to silica dissolution/precipitation during geothermal heat extraction. <i>Geothermics</i> , 2015, 57, 111-126.	3.4	58
46	Highâ€resolution experiments on chemical oxidation of DNAPL in variableâ€aperture fractures. <i>Water Resources Research</i> , 2015, 51, 2317-2335.	4.2	16
47	Investigation of permeability alteration of fractured limestone reservoir due to geothermal heat extraction using three-dimensional thermo-hydro-chemical (THC) model. <i>Geothermics</i> , 2014, 51, 46-62.	3.4	61
48	Editorial: Toward 50 years of <i>Water Resources Research</i> . <i>Water Resources Research</i> , 2013, 49, 7841-7842.	4.2	11
49	Evaluation of Pleistocene groundwater flow through fractured tuffs using a U-series disequilibrium approach, Pahute Mesa, Nevada, USA. <i>Chemical Geology</i> , 2013, 358, 101-118.	3.3	8
50	Soluble Microbial Products Decrease Pyrite Oxidation by Ferric Iron at pH ≤ 2. <i>Environmental Science & Technology</i> , 2013, 47, 130710132117003.	10.0	5
51	Evaluation of cryoâ€hydrologic warming as an explanation for increased ice velocities in the wet snow zone, Sermeq Avannarleq, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1241-1256.	2.8	60
52	Early-stage hypogene karstification in a mountain hydrologic system: A coupled thermohydrochemical model incorporating buoyant convection. <i>Water Resources Research</i> , 2013, 49, 5880-5899.	4.2	35
53	Monte Carlo ice flow modeling projects a new stable configuration for Columbia Glacier, Alaska, c. 2020. <i>Cryosphere</i> , 2012, 6, 1395-1409.	3.9	52
54	Basal crevasses and associated surface crevassing on the Larsen C ice shelf, Antarctica, and their role in ice-shelf instability. <i>Annals of Glaciology</i> , 2012, 53, 10-18.	1.4	50

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55	Fracture alteration by precipitation resulting from thermal gradients: Upscaled mean aperture-effective transmissivity relationship. <i>Water Resources Research</i> , 2012, 48, .	4.2	15
56	The annual glaciohydrology cycle in the ablation zone of the Greenland ice sheet: Part 2. Observed and modeled ice flow. <i>Journal of Glaciology</i> , 2012, 58, 51-64.	2.2	27
57	An increase in crevasse extent, West Greenland: Hydrologic implications. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	69
58	Modeling moulin distribution on Sermeq Avannarleq glacier using ASTER and WorldView imagery and fuzzy set theory. <i>Remote Sensing of Environment</i> , 2011, 115, 2292-2301.	11.0	35
59	The annual glaciohydrology cycle in the ablation zone of the Greenland ice sheet: Part 1. Hydrology model. <i>Journal of Glaciology</i> , 2011, 57, 697-709.	2.2	44
60	Incorporating Groundwater-Surface Water Interaction into River Management Models. <i>Ground Water</i> , 2010, 48, 661-673.	1.3	20
61	An improved two-dimensional depth-integrated flow equation for rough-walled fractures. <i>Water Resources Research</i> , 2010, 46, .	4.2	20
62	Cryo-hydrologic warming: A potential mechanism for rapid thermal response of ice sheets. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	135
63	Drying of a partially saturated rock matrix by fracture ventilation: Experiments and modeling in a single fracture-matrix system. <i>Water Resources Research</i> , 2009, 45, .	4.2	1
64	Interphase mass transfer in variable aperture fractures: Controlling parameters and proposed constitutive relationships. <i>Water Resources Research</i> , 2009, 45, .	4.2	36
65	Buoyant convection resulting from dissolution and permeability growth in vertical limestone fractures. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	23
66	Alteration of fractures by precipitation and dissolution in gradient reaction environments: Computational results and stochastic analysis. <i>Water Resources Research</i> , 2008, 44, .	4.2	43
67	Predicting dissolution patterns in variable aperture fractures: Evaluation of an enhanced depth-averaged computational model. <i>Water Resources Research</i> , 2007, 43, .	4.2	91
68	Performance of different types of time domain reflectometry probes for water content measurement in partially saturated rocks. <i>Water Resources Research</i> , 2006, 42, .	4.2	30
69	Differences in the scale-dependence of dispersivity estimated from temporal and spatial moments in chemically and physically heterogeneous porous media. <i>Advances in Water Resources</i> , 2005, 28, 745-759.	3.8	71
70	Differences in the scale dependence of dispersivity and retardation factors estimated from forced-gradient and uniform flow tracer tests in three-dimensional physically and chemically heterogeneous porous media. <i>Water Resources Research</i> , 2005, 41, .	4.2	41
71	Dissolution of limestone fractures by cooling waters: Early development of hypogene karst systems. <i>Water Resources Research</i> , 2005, 41, .	4.2	50
72	Assessment of the predictive capabilities of stochastic theories in a three-dimensional laboratory test aquifer: Effective hydraulic conductivity and temporal moments of breakthrough curves. <i>Water Resources Research</i> , 2005, 41, .	4.2	36

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73	On the anisotropy of the aperture correlation and effective transmissivity in fractures generated by sliding between identical self-affine surfaces. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	25
74	Development of slender transport pathways in unsaturated fractured rock: Simulation with modified invasion percolation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	7
75	Stochastic fractal-based models of heterogeneity in subsurface hydrology: Origins, applications, limitations, and future research questions. <i>Reviews of Geophysics</i> , 2004, 42, .	23.0	90
76	Conservative and sorptive forced-gradient and uniform flow tracer tests in a three-dimensional laboratory test aquifer. <i>Water Resources Research</i> , 2004, 40, .	4.2	45
77	The effect of entrapped nonaqueous phase liquids on tracer transport in heterogeneous porous media: laboratory experiments at the intermediate scale. <i>Journal of Contaminant Hydrology</i> , 2003, 67, 247-268.	3.3	13
78	Unsaturated flow through fracture networks: Evolution of liquid phase structure, dynamics, and the critical importance of fracture intersections. <i>Water Resources Research</i> , 2003, 39, .	4.2	29
79	Fractosphere, the Site of Hydrogeological-microbial Interaction: Current and Future Perspectives.. <i>Journal of Geography (Chigaku Zasshi)</i> , 2003, 112, 288-301.	0.3	1
80	Dissolution finger growth in variable aperture fractures: Role of the tip-region flow field. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	4.0	39
81	Experimental and simulated solute transport in a partially-saturated, variable-aperture fracture. <i>Geophysical Research Letters</i> , 2002, 29, 113-1-113-4.	4.0	15
82	Predictive modeling of flow and transport in a two-dimensional intermediate-scale, heterogeneous porous medium. <i>Water Resources Research</i> , 2001, 37, 2503-2512.	4.2	62
83	Nonaqueous-phase-liquid dissolution in variable-aperture fractures: Development of a depth-averaged computational model with comparison to a physical experiment. <i>Water Resources Research</i> , 2001, 37, 3115-3129.	4.2	37
84	A new tracer-density criterion for heterogeneous porous media. <i>Water Resources Research</i> , 2001, 37, 21-31.	4.2	36
85	Impact of variable reservoir releases on management of downstream water temperatures. <i>Water Resources Research</i> , 2001, 37, 1733-1743.	4.2	43
86	The interaction of two fluid phases in fractured media. <i>Current Opinion in Colloid and Interface Science</i> , 2001, 6, 223-235.	7.4	27
87	Solute transport in variable-aperture fractures: An investigation of the relative importance of Taylor dispersion and macrodispersion. <i>Water Resources Research</i> , 2000, 36, 1611-1625.	4.2	146
88	Intermediate-scale experiments and numerical simulations of transport under radial flow in a two-dimensional heterogeneous porous medium. <i>Water Resources Research</i> , 2000, 36, 2869-2884.	4.2	61
89	Factors controlling saturated relative permeability in a partially-saturated horizontal fracture. <i>Geophysical Research Letters</i> , 2000, 27, 393-396.	4.0	38
90	Transport with spatially variable kinetic sorption: recursion formulation. <i>Advances in Water Resources</i> , 1999, 22, 549-555.	3.8	9

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91	Saturated flow in a single fracture: evaluation of the Reynolds Equation in measured aperture fields. Water Resources Research, 1999, 35, 3361-3373.	4.2	157
92	Influence of aperture variability on dissolutional growth of fissures in Karst Formations. Water Resources Research, 1998, 34, 2843-2853.	4.2	133
93	Prediction of relative permeabilities for unconsolidated soils using pore-scale network models. Water Resources Research, 1997, 33, 43-52.	4.2	63
94	Time and scale dependent effective retardation factors in heterogeneous aquifers. Advances in Water Resources, 1997, 20, 217-230.	3.8	55
95	Plume-Scale Dependent Dispersion in Aquifers with a Wide Range of Scales of Heterogeneity. Water Resources Research, 1995, 31, 2469-2482.	4.2	75
96	A multi-scale computational model for multiphase flow in porous media. Advances in Water Resources, 1993, 16, 81-92.	3.8	22
97	Plume scale-dependent dispersion in heterogeneous aquifers: 2. Eulerian analysis and three-dimensional aquifers. Water Resources Research, 1993, 29, 3261-3276.	4.2	81
98	Plume scale-dependent dispersion in heterogeneous aquifers: 1. Lagrangian analysis in a stratified aquifer. Water Resources Research, 1993, 29, 3249-3260.	4.2	74
99	Three-dimensional spatial moments analysis of the Borden Tracer Test. Water Resources Research, 1991, 27, 1239-1251.	4.2	87
100	"Identification of large-scale spatial trends in hydrologic data. Water Resources Research, 1990, 26, 2411-2423.	4.2	27
101	Recursive parameter estimation of hydrologic models. Water Resources Research, 1989, 25, 281-294.	4.2	30
102	A generalized soft water acidification model. Water Resources Research, 1988, 24, 1983-1996.	4.2	50