

Brian Berkowitz

List of Publications by Year in descending order

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262
papers

14,094
citations

23567

58
h-index

23533

111
g-index

282
all docs

282
docs citations

282
times ranked

8621
citing authors

#	ARTICLE	IF	CITATIONS
19	Process-Dependent Solute Transport in Porous Media. <i>Transport in Porous Media</i> , 2021, 140, 421-435.	2.6	7
20	Preferential pathways for fluid and solutes in heterogeneous groundwater systems: self-organization, entropy, work. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5337-5353.	4.9	12
21	The Impact of Ureteral Deformation and External Ureteral Pressure on Stent Failure in Extrinsic Ureteral Obstruction: An <i>In Vitro</i> Experimental Study. <i>Journal of Endourology</i> , 2020, 34, 68-73.	2.1	11
22	<i>Letter to the Editor RE: Schwartz, Editorial Comment on: The Impact of Ureteral Deformation and External Ureteral Pressure on Stent Failure in Extrinsic Ureteral Obstruction—An In Vitro Experimental Study by Shilo et al. (From: Shilo Y, Modai J, Leibovici D, et al. J Endourol) Tj ETQq0 0 0 figBT /Overlock 10 Tf</i>	2.1	1
23	Modeling Non-Fickian Solute Transport Due to Mass Transfer and Physical Heterogeneity on Arbitrary Groundwater Velocity Fields. <i>Water Resources Research</i> , 2020, 56, e2019WR026868.	4.2	14
24	Aurora: A non-Fickian (and Fickian) particle tracking package for modeling groundwater contaminant transport with MODFLOW. <i>Environmental Modelling and Software</i> , 2020, 134, 104871.	4.5	6
25	Current knowledge on transport and reactivity of technology-critical elements (TCEs) in soil and aquifer environments. <i>Environmental Chemistry</i> , 2020, 17, 118.	1.5	5
26	Effect of nanoplastics on the transport of platinum-based pharmaceuticals in water-saturated natural soil and their effect on a soil microbial community. <i>Environmental Science: Nano</i> , 2020, 7, 3178-3188.	4.3	9
27	Elucidating the catalytic degradation of enrofloxacin by copper oxide nanoparticles through the identification of the reactive oxygen species. <i>Chemosphere</i> , 2020, 258, 127266.	8.2	18
28	Impact of Colloidal Fluid on Stent Failure Under Extrinsic Ureteral Obstruction: An <i>In Vitro</i> Experimental Study. <i>Journal of Endourology</i> , 2020, 34, 987-992.	2.1	7
29	Influence of humic substances on the transport of indium and gallium in porous media. <i>Chemosphere</i> , 2020, 249, 126099.	8.2	2
30	Surface water and groundwater: unifying conceptualization and quantification of the two "water worlds". <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1831-1858.	4.9	16
31	Experimental and modeling evidence of kilometer-scale anomalous tracer transport in an alpine karst aquifer. <i>Water Research</i> , 2020, 178, 115755.	11.3	39
32	Finite-Element Method Solution of Non-Fickian Transport in Porous Media: The CTRW-FEM Package. <i>Ground Water</i> , 2019, 57, 479-484.	1.3	5
33	Effect of Phosphate, Sulfate, Arsenate, and Pyrite on Surface Transformations and Chemical Retention of Gold Nanoparticles (Au-NPs) in Partially Saturated Soil Columns. <i>Environmental Science & Technology</i> , 2019, 53, 13071-13080.	10.0	12
34	Bimolecular reactive transport in a two-dimensional velocity field in disordered media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 424005.	2.1	2
35	Characterization of mixing and reaction between chemical species during cycles of drainage and imbibition in porous media. <i>Advances in Water Resources</i> , 2019, 130, 113-128.	3.8	8
36	Anomalous transport dependence on Péclet number, porous medium heterogeneity, and a temporally varying velocity field. <i>Physical Review E</i> , 2019, 99, 033108.	2.1	19

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37	Reactive Transport in Heterogeneous Porous Media Under Different Péclet Numbers. <i>Water Resources Research</i> , 2019, 55, 10119-10129.	4.2	11
38	Catalytic Degradation of Fluorouracil and Its Derivatives by Copper-Based Nanoparticles. <i>Environmental Engineering Science</i> , 2019, 36, 1466-1473.	1.6	5
39	Mobility and retention of indium and gallium in saturated porous media. <i>Journal of Hazardous Materials</i> , 2019, 363, 394-400.	12.4	8
40	Transport of platinum-based pharmaceuticals in water-saturated sand and natural soil: Carboplatin and cisplatin species. <i>Chemosphere</i> , 2019, 219, 390-399.	8.2	11
41	Isotopic labelling for sensitive detection of nanoparticle uptake and translocation in plants from hydroponic medium and soil. <i>Environmental Chemistry</i> , 2019, 16, 391.	1.5	6
42	Inertial Effects on Flow and Transport in Heterogeneous Porous Media. <i>Physical Review Letters</i> , 2018, 120, 054504.	7.8	30
43	A continuous time random walk (CTRW) integro-differential equation with chemical interaction. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	10
44	Benchmarking numerical codes for tracer transport with the aid of laboratory-scale experiments in 2D heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2018, 212, 55-64.	3.3	6
45	The effect of nanoparticles and humic acid on technology critical element concentrations in aqueous solutions with soil and sand. <i>Science of the Total Environment</i> , 2018, 610-611, 1083-1091.	8.0	8
46	Silver nanoparticle (Ag-NP) retention and release in partially saturated soil: column experiments and modelling. <i>Environmental Science: Nano</i> , 2018, 5, 422-435.	4.3	24
47	Controls on interactions between resident and infiltrating waters in porous media. <i>Advances in Water Resources</i> , 2018, 121, 304-315.	3.8	6
48	Transport of oxaliplatin species in water-saturated natural soil. <i>Chemosphere</i> , 2018, 208, 829-837.	8.2	6
49	Synthesis and characterization of isotopically-labeled silver, copper and zinc oxide nanoparticles for tracing studies in plants. <i>Environmental Pollution</i> , 2018, 242, 1827-1837.	7.5	39
50	Microchemical contaminants as forming agents of anthropogenic soils. <i>Ambio</i> , 2017, 46, 109-120.	5.5	12
51	Two-dimensional finite element method solution of a class of integro-differential equations: Application to non-Fickian transport in disordered media. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 459-478.	2.8	4
52	Time-dependent velocity field controls on anomalous chemical transport in porous media. <i>Water Resources Research</i> , 2017, 53, 3760-3769.	4.2	29
53	Spatial and Temporal Distribution of Free and Conjugated Estrogens During Soil Column Transport. <i>Clean - Soil, Air, Water</i> , 2017, 45, .	1.1	10
54	Atrazine degradation through PEI-copper nanoparticles deposited onto montmorillonite and sand. <i>Scientific Reports</i> , 2017, 7, 1415.	3.3	32

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55	Oxidation of aqueous organic pollutants using a stable copper nanoparticle suspension. Canadian Journal of Chemical Engineering, 2017, 95, 343-352.	1.7	19
56	Measurement and modeling of engineered nanoparticle transport and aging dynamics in a reactive porous medium. Water Resources Research, 2016, 52, 5473-5491.	4.2	12
57	Preface: Special Issue in Honor of Harvey Scher's 80th Birthday. Transport in Porous Media, 2016, 115, 209-214.	2.6	0
58	Characterization of Bimolecular Reactive Transport in Heterogeneous Porous Media. Transport in Porous Media, 2016, 115, 291-310.	2.6	18
59	Structural controls on anomalous transport in fractured porous rock. Water Resources Research, 2016, 52, 5634-5643.	4.2	31
60	Measurements and models of reactive transport in geological media. Reviews of Geophysics, 2016, 54, 930-986.	23.0	57
61	Push-pull tracer tests: Their information content and use for characterizing non-Fickian, mobile-immobile behavior. Water Resources Research, 2016, 52, 9565-9585.	4.2	17
62	One-Dimensional Finite Element Method Solution of a Class of Integro-Differential Equations: Application to Non-Fickian Transport in Disordered Media. Transport in Porous Media, 2016, 115, 239-263.	2.6	7
63	Engineered nanomaterials as a potential metapedogenetic factor: A perspective. Catena, 2016, 146, 30-37.	5.0	2
64	Transport of engineered nanoparticles in partially saturated sand columns. Journal of Hazardous Materials, 2016, 311, 254-262.	12.4	27
65	Transport of gadolinium- and arsenic-based pharmaceuticals in saturated soil under various redox conditions. Chemosphere, 2016, 144, 713-720.	8.2	14
66	Anomalous reactive transport in porous media: Experiments and modeling. Physical Review E, 2015, 91, 052130.	2.1	29
67	Multimodel framework for characterization of transport in porous media. Water Resources Research, 2015, 51, 3384-3402.	4.2	22
68	Nickel migration and retention dynamics in natural soil columns. Water Resources Research, 2015, 51, 7702-7722.	4.2	14
69	Fate and transport of free and conjugated estrogens during soil passage. Environmental Pollution, 2015, 206, 80-87.	7.5	35
70	Integrodifferential formulations of the continuous-time random walk for solute transport subject to bimolecular adsorption. From micro- to mesoscopic. Physical Review E, 2015, 91, 032113.	2.1	19
71	Abiotic soil changes induced by engineered nanomaterials: A critical review. Journal of Contaminant Hydrology, 2015, 181, 3-16.	3.3	30
72	Visualization and analysis of nanoparticle transport and ageing in reactive porous media. Journal of Hazardous Materials, 2015, 299, 513-519.	12.4	8

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73	Origins of anomalous transport in heterogeneous media: Structural and dynamic controls. <i>Water Resources Research</i> , 2014, 50, 1490-1505.	4.2	128
74	Transport of Reactive Contaminants. , 2014, , 267-284.		0
75	Contaminant Geochemistry. , 2014, , .		16
76	Evidence of preferential path formation and path memory effect during successive infiltration and drainage cycles in uniform sand columns. <i>Journal of Contaminant Hydrology</i> , 2014, 165, 1-10.	3.3	21
77	Interpretation and nonuniqueness of CTRW transition distributions: Insights from an alternative solute transport formulation. <i>Advances in Water Resources</i> , 2014, 74, 54-63.	3.8	18
78	Detection, fate and transport of estrogen family hormones in soil. <i>Chemosphere</i> , 2014, 95, 336-345.	8.2	51
79	First-principles derivation of reactive transport modeling parameters for particle tracking and PDE approaches. <i>Advances in Water Resources</i> , 2014, 69, 146-158.	3.8	16
80	Reactive Transport in Heterogeneous Media. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 243-256.	0.2	0
81	Interchange of Infiltrating and Resident Water in Partially Saturated Media. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 55-66.	0.2	0
82	Selected Research Findings: Contaminant Transport. , 2014, , 285-345.		0
83	Selected Research Findings: Contaminant Partitioning. , 2014, , 171-243.		1
84	Contaminant-Induced Irreversible Changes in Groundwater Chemistry. , 2014, , 457-500.		2
85	Water Flow in the Subsurface Environment. , 2014, , 247-253.		0
86	Sorption, Retention, and Release of Contaminants. , 2014, , 107-146.		0
87	Inorganic and Organometallic Compounds. , 2014, , 53-77.		0
88	Contaminant Partitioning in the Aqueous Phase. , 2014, , 147-162.		0
89	Contaminant Impacts on the Soil's Subsurface Solid Phase. , 2014, , 501-569.		0
90	Transport of Passive Contaminants. , 2014, , 255-266.		0

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91	Non-Fickian Transport in Transparent Replicas of Rough-Walled Rock Fractures. <i>Transport in Porous Media</i> , 2013, 98, 651-682.	2.6	35
92	Mobility and Interaction of Heavy Metals in a Natural Soil. <i>Transport in Porous Media</i> , 2013, 97, 295-315.	2.6	10
93	Catalytic degradation of brominated flame retardants by copper oxide nanoparticles. <i>Chemosphere</i> , 2013, 93, 172-177.	8.2	49
94	Reactive transport in disordered media: Role of fluctuations in interpretation of laboratory experiments. <i>Advances in Water Resources</i> , 2013, 51, 86-103.	3.8	23
95	Effects of metal oxide nanoparticles on soil properties. <i>Chemosphere</i> , 2013, 90, 640-646.	8.2	150
96	Fickian and non-Fickian diffusion with bimolecular reactions. <i>Physical Review E</i> , 2013, 87, .	2.1	10
97	Quantification of Non-Fickian Transport in Fractured Formations. <i>Geophysical Monograph Series</i> , 2013, , 23-31.	0.1	3
98	Record-Breaking Statistics for Random Walks in the Presence of Measurement Error and Noise. <i>Physical Review Letters</i> , 2013, 110, 180602.	7.8	20
99	Comparative analysis of formulations for conservative transport in porous media through sensitivity-based parameter calibration. <i>Water Resources Research</i> , 2013, 49, 5206-5220.	4.2	29
100	Effect of Metal Oxide Nanoparticles on Microbial Community Structure and Function in Two Different Soil Types. <i>PLoS ONE</i> , 2013, 8, e84441.	2.5	189
101	Estimation of Single-Metal and Competitive Sorption Isotherms through Maximum Likelihood and Model Quality Criteria. <i>Soil Science Society of America Journal</i> , 2012, 76, 1229-1245.	2.2	17
102	Soil-Subsurface Change. , 2012, , .		25
103	Interplay between resident and infiltrating water: Estimates from transient water flow and solute transport. <i>Journal of Hydrology</i> , 2012, 458-459, 40-50.	5.4	12
104	Catalytic Transformation of Persistent Contaminants Using a New Composite Material Based on Nanosized Zero-Valent Iron. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3416-3423.	8.0	53
105	Copper Oxide Nanoparticle-Coated Quartz Sand as a Catalyst for Degradation of an Organic Dye in Water. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3105-3115.	2.4	11
106	Enrofloxacin oxidative degradation facilitated by metal oxide nanoparticles. <i>Chemosphere</i> , 2012, 86, 144-149.	8.2	47
107	Transport of silver nanoparticles (AgNPs) in soil. <i>Chemosphere</i> , 2012, 88, 670-675.	8.2	139
108	Experimental and modeling analysis of coupled non-Fickian transport and sorption in natural soils. <i>Journal of Contaminant Hydrology</i> , 2012, 132, 28-36.	3.3	27

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109	Chemical Pollutants as a Factor of Soil's Subsurface Irreversible Transformation: An Introductory Discussion. , 2012, , 1-9.		1
110	Properties and Behavior of Selected Inorganic and Organometallic Contaminants. , 2012, , 39-74.		2
111	On the Retention and Transformation of Contaminants in Soil and the Subsurface. , 2012, , 75-111.		0
112	Contaminant-Induced Irreversible Changes in Properties of the Soil's Subsurface Regime. , 2012, , 263-360.		0
113	Record setting during dispersive transport in porous media. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	9
114	Dissolution and precipitation dynamics during dedolomitization. Water Resources Research, 2011, 47, .	4.2	30
115	Quantifying Solute Transport at the Shale Hills Critical Zone Observatory. Vadose Zone Journal, 2011, 10, 843-857.	2.2	55
116	Measurements of Interactions between Resident and Infiltrating Water in a Lattice Micromodel. Vadose Zone Journal, 2011, 10, 624-633.	2.2	17
117	Experimental and modeling investigation of multicomponent reactive transport in porous media. Journal of Contaminant Hydrology, 2011, 120-121, 27-44.	3.3	56
118	Non-Fickian transport in porous media with bimodal structural heterogeneity. Journal of Contaminant Hydrology, 2011, 120-121, 213-221.	3.3	36
119	Fate and transport of carbamazepine in soil aquifer treatment (SAT) infiltration basin soils. Chemosphere, 2011, 82, 244-252.	8.2	58
120	Contaminant geochemistry—a new perspective. Die Naturwissenschaften, 2010, 97, 1-17.	1.6	22
121	Transport Equation Evaluation of Coupled Continuous Time Random Walks. Journal of Statistical Physics, 2010, 141, 1093-1103.	1.2	2
122	Transport of metal oxide nanoparticles in saturated porous media. Chemosphere, 2010, 81, 387-393.	8.2	202
123	Random walk particle tracking simulations of non-Fickian transport in heterogeneous media. Journal of Computational Physics, 2010, 229, 4304-4314.	3.8	41
124	Anomalous transport in correlated velocity fields. Physical Review E, 2010, 81, 011128.	2.1	17
125	Transport in disordered media with spatially nonuniform fields. Physical Review E, 2010, 81, 031102.	2.1	8
126	Use of Nanoparticles for Degradation of Water Contaminants in Oxidative and Reductive Reactions. ACS Symposium Series, 2010, , 23-37.	0.5	1

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127	Particle tracking model of bimolecular reactive transport in porous media. <i>Water Resources Research</i> , 2010, 46, .	4.2	73
128	Reply to comment by V. P. Shkilev on "Non-Fickian transport and multiple-rate mass transfer in porous media". <i>Water Resources Research</i> , 2010, 46, .	4.2	0
129	Oxidation of organic pollutants in aqueous solutions by nanosized copper oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 85, 207-211.	20.2	83
130	Exploring the nature of non-Fickian transport in laboratory experiments. <i>Advances in Water Resources</i> , 2009, 32, 750-755.	3.8	78
131	Application of a mixing-ratios based formulation to model mixing-driven dissolution experiments. <i>Advances in Water Resources</i> , 2009, 32, 756-766.	3.8	12
132	Reductive dechlorination of atrazine catalyzed by metalloporphyrins. <i>Chemosphere</i> , 2009, 75, 48-55.	8.2	17
133	Laboratory experiments on dispersive transport across interfaces: The role of flow direction. <i>Water Resources Research</i> , 2009, 45, .	4.2	50
134	Simulation of the interplay between resident and infiltrating water in partially saturated porous media. <i>Water Resources Research</i> , 2009, 45, .	4.2	22
135	Modeling bimolecular reactions and transport in porous media. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	70
136	Non-Fickian transport and multiple-rate mass transfer in porous media. <i>Water Resources Research</i> , 2008, 44, .	4.2	69
137	Contaminant-induced irreversible changes in properties of the soil "vadose" aquifer zone: An overview. <i>Chemosphere</i> , 2008, 71, 1409-1421.	8.2	22
138	Numerical study of diffusion on a random-mixed-bond lattice. <i>Physical Review E</i> , 2008, 77, 031119.	2.1	1
139	Transport behavior of coupled continuous-time random walks. <i>Physical Review E</i> , 2008, 78, 041110.	2.1	39
140	Reductive hydrogenation of polycyclic aromatic hydrocarbons catalyzed by metalloporphyrins. <i>Chemosphere</i> , 2007, 68, 210-217.	8.2	31
141	Behavior and stability of organic contaminant droplets in aqueous solutions. <i>Chemosphere</i> , 2007, 69, 1593-1601.	8.2	6
142	Experimental and numerical studies of the ^{18}O exchange between CO_2 and water in the atmosphere-soil invasion flux. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2657-2671.	3.9	11
143	Effects of pore-size controlled solubility on reactive transport in heterogeneous rock. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	53
144	Phase separation and convection in heterogeneous porous media: Implications for seafloor hydrothermal systems. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	7

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145	Continuous time random walks and heat transfer in porous media. <i>Transport in Porous Media</i> , 2007, 67, 413-430.	2.6	31
146	Pore-scale imbibition experiments in dry and prewetted porous media. <i>Advances in Water Resources</i> , 2007, 30, 2373-2386.	3.8	5
147	Pore-scale study of drainage displacement under combined capillary and gravity effects in index-matched porous media. <i>Water Resources Research</i> , 2006, 42, .	4.2	26
148	An experimental analogue for convection and phase separation in hydrothermal systems. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	7
149	Suppression and stimulation of seafloor hydrothermal convection by exothermic mineral hydration. <i>Earth and Planetary Science Letters</i> , 2006, 243, 657-668.	4.4	78
150	Modeling non-Fickian transport in geological formations as a continuous time random walk. <i>Reviews of Geophysics</i> , 2006, 44, .	23.0	879
151	Mixing-induced precipitation and porosity evolution in porous media. <i>Advances in Water Resources</i> , 2005, 28, 337-344.	3.8	84
152	The role of fractures on coupled dissolution and precipitation patterns in carbonate rocks. <i>Advances in Water Resources</i> , 2005, 28, 507-521.	3.8	69
153	Use of Nanosized Catalysts for Transformation of Chloro-Organic Pollutants. <i>Environmental Science & Technology</i> , 2005, 39, 1283-1290.	10.0	51
154	Computing "Anomalous" Contaminant Transport in Porous Media: The CTRW MATLAB Toolbox. <i>Ground Water</i> , 2005, 43, 947-950.	1.3	104
155	Morphogen gradient formation in a complex environment: An anomalous diffusion model. <i>Physical Review E</i> , 2005, 72, 041916.	2.1	75
156	Exact effective transport dynamics in a one-dimensional random environment. <i>Physical Review E</i> , 2005, 72, 031110.	2.1	19
157	Magnetic Resonance Imaging and Quantitative Analysis of Particle Deposition in Porous Media. <i>Environmental Science & Technology</i> , 2005, 39, 7208-7216.	10.0	18
158	Editorial: Future of Water Resources Research. <i>Water Resources Research</i> , 2005, 41, .	4.2	5
159	Impact of the Capillary Fringe on Local Flow, Chemical Migration, and Microbiology. <i>Vadose Zone Journal</i> , 2004, 3, 534-548.	2.2	77
160	Quantitative characterization of pore-scale disorder effects on transport in "homogeneous" granular media. <i>Physical Review E</i> , 2004, 70, 041108.	2.1	78
161	Time behavior of solute transport in heterogeneous media: transition from anomalous to normal transport. <i>Advances in Water Resources</i> , 2004, 27, 155-173.	3.8	350
162	Continuous time random walks revisited: first passage time and spatial distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 334, 46-66.	2.6	31

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163	Diffusion in multicomponent systems: a free energy approach. <i>Chemical Physics</i> , 2004, 302, 21-30.	1.9	12
164	Carbonate dissolution and precipitation in coastal environments: Laboratory analysis and theoretical consideration. <i>Water Resources Research</i> , 2004, 40, .	4.2	46
165	Numerical simulation of non-Fickian transport in geological formations with multiple-scale heterogeneities. <i>Water Resources Research</i> , 2004, 40, .	4.2	88
166	Effects of air injection on flow through porous media: Observations and analyses of laboratory-scale processes. <i>Water Resources Research</i> , 2004, 40, .	4.2	56
167	Dedolomitization and flow in fractures. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	10
168	Anomalous Transport in "Classical" Soil and Sand Columns. <i>Soil Science Society of America Journal</i> , 2004, 68, 1539-1548.	2.2	208
169	Impact of the Capillary Fringe on Local Flow, Chemical Migration, and Microbiology. <i>Vadose Zone Journal</i> , 2004, 3, 534-548.	2.2	2
170	Measurement and analysis of non-Fickian dispersion in heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2003, 64, 203-226.	3.3	314
171	Continuous time random walk and multirate mass transfer modeling of sorption. <i>Chemical Physics</i> , 2003, 295, 71-80.	1.9	68
172	Evolution of hydraulic conductivity by precipitation and dissolution in carbonate rock. <i>Water Resources Research</i> , 2003, 39, .	4.2	52
173	Transport behavior of a passive solute in continuous time random walks and multirate mass transfer. <i>Water Resources Research</i> , 2003, 39, .	4.2	211
174	Mixing-driven diagenesis and mineral deposition: CaCO ₃ precipitation in salt water - fresh water mixing zones. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	15
175	Flow, dissolution, and precipitation in dolomite. <i>Water Resources Research</i> , 2003, 39, .	4.2	32
176	Response to Comment on "Salt-Pump Mechanism for Contaminant Intrusion into Coastal Aquifers". <i>Science</i> , 2003, 302, 784c-784.	12.6	5
177	8-Hydroxyquinoline-5-sulfonic Acid (HQS) Impregnated on Lewatit MP 600 for Cadmium Complexation: Implication of Solvent Impregnated Resins for Water Remediation. <i>Separation Science and Technology</i> , 2003, 38, 149-163.	2.5	17
178	Salt-Pump Mechanism for Contaminant Intrusion into Coastal Aquifers. <i>Science</i> , 2003, 300, 950-950.	12.6	18
179	Transport behavior in three-dimensional fracture intersections. <i>Water Resources Research</i> , 2003, 39, .	4.2	42
180	In Situ Remediation of Groundwater Contaminated by Heavy- and Transition-Metal Ions by Selective Ion-Exchange Methods. <i>Environmental Science & Technology</i> , 2002, 36, 1851-1855.	10.0	85

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181	Measurement and analysis of dissolution patterns in rock fractures. <i>Water Resources Research</i> , 2002, 38, 5-1-5-12.	4.2	70
182	An experimental and numerical investigation of saltwater movement in coupled saturated-partially saturated systems. <i>Water Resources Research</i> , 2002, 38, 5-1-5-11.	4.2	26
183	Spatial behavior of anomalous transport. <i>Physical Review E</i> , 2002, 65, 031101.	2.1	41
184	The dynamical foundation of fractal stream chemistry: The origin of extremely long retention times. <i>Geophysical Research Letters</i> , 2002, 29, 5-1-5-4.	4.0	170
185	Physical pictures of transport in heterogeneous media: Advection-dispersion, random-walk, and fractional derivative formulations. <i>Water Resources Research</i> , 2002, 38, 9-1-9-12.	4.2	264
186	Characterizing flow and transport in fractured geological media: A review. <i>Advances in Water Resources</i> , 2002, 25, 861-884.	3.8	1,131
187	Towards a unified framework for anomalous transport in heterogeneous media. <i>Chemical Physics</i> , 2002, 284, 349-359.	1.9	44
188	Fluid Flow and Solute Migration Within the Capillary Fringe. <i>Ground Water</i> , 2002, 40, 76-84.	1.3	88
189	Scaling of fracture systems in geological media. <i>Reviews of Geophysics</i> , 2001, 39, 347-383.	23.0	1,047
190	Transport and intersection mixing in random fracture networks with power law length distributions. <i>Water Resources Research</i> , 2001, 37, 2493-2501.	4.2	74
191	Effects of junction transfer characteristics on transport in fracture networks. <i>Water Resources Research</i> , 2001, 37, 909-923.	4.2	45
192	Stochastic pore-scale growth models of DNAPL migration in porous media. <i>Advances in Water Resources</i> , 2001, 24, 309-323.	3.8	45
193	A Numerical Study of the Distribution of Water in Partially Saturated Porous Rock. <i>Transport in Porous Media</i> , 2001, 45, 301-317.	2.6	40
194	Title is missing!. <i>Transport in Porous Media</i> , 2001, 42, 1-2.	2.6	2
195	The Role of Probabilistic Approaches to Transport Theory in Heterogeneous Media. <i>Transport in Porous Media</i> , 2001, 42, 241-263.	2.6	78
196	Application of Continuous Time Random Walk Theory to Tracer Test Measurements in Fractured and Heterogeneous Porous Media. <i>Ground Water</i> , 2001, 39, 593-604.	1.3	112
197	Analysis of field observations of tracer transport in a fractured till. <i>Journal of Contaminant Hydrology</i> , 2001, 47, 29-51.	3.3	78
198	Advective transport in the percolation backbone in two dimensions. <i>Physical Review E</i> , 2001, 64, 056305.	2.1	6

#	ARTICLE	IF	CITATIONS
199	The Role of Probabilistic Approaches to Transport Theory in Heterogeneous Media. , 2001, , 241-263.		9
200	Buoyancy-driven dissolution enhancement in rock fractures. <i>Geology</i> , 2000, 28, 1051.	4.4	18
201	On Fracture Structure and Preferential Flow in Unsaturated Chalk. <i>Ground Water</i> , 2000, 38, 444-451.	1.3	48
202	Effective Medium Analysis of Random Lattices. <i>Transport in Porous Media</i> , 2000, 40, 145-151.	2.6	30
203	Title is missing!. <i>Mathematical Geosciences</i> , 2000, 32, 543-560.	0.9	6
204	Application of Continuous Time Random Walks to Transport in Porous Media. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3942-3947.	2.6	68
205	Scaling of fracture connectivity in geological formations. <i>Geophysical Research Letters</i> , 2000, 27, 2061-2064.	4.0	105
206	Anomalous transport in laboratory-scale, heterogeneous porous media. <i>Water Resources Research</i> , 2000, 36, 149-158.	4.2	283
207	Buoyancy-driven dissolution enhancement in rock fractures. <i>Geology</i> , 2000, 28, 1051-1054.	4.4	3
208	A Monte Carlo Model for the Flow of Dust in a Porous Comet Nucleus. <i>Icarus</i> , 1999, 137, 348-354.	2.5	6
209	Field observation of flow in a fracture intersecting unsaturated chalk. <i>Water Resources Research</i> , 1999, 35, 3315-3326.	4.2	94
210	Three-dimensional flow measurements in rock fractures. <i>Water Resources Research</i> , 1999, 35, 3955-3959.	4.2	35
211	Investigation of flow in water-saturated rock fractures using nuclear magnetic resonance imaging (NMRI). <i>Water Resources Research</i> , 1999, 35, 347-360.	4.2	74
212	Flow pattern variability in natural fracture intersections. <i>Geophysical Research Letters</i> , 1999, 26, 1765-1768.	4.0	65
213	Percolation Theory and Network Modeling Applications in Soil Physics. <i>Surveys in Geophysics</i> , 1998, 19, 23-72.	4.6	247
214	A Measurement System to Determine Water Flux and Solute Transport Through Fractures in the Unsaturated Zone. <i>Ground Water</i> , 1998, 36, 444-449.	1.3	37
215	Precipitation and dissolution of reactive solutes in fractures. <i>Water Resources Research</i> , 1998, 34, 457-470.	4.2	90
216	A generalized growth model for simulating initial migration of dense non-aqueous phase liquids. <i>Water Resources Research</i> , 1998, 34, 611-622.	4.2	59

#	ARTICLE	IF	CITATIONS
217	Stereological analysis of fracture network structure in geological formations. <i>Journal of Geophysical Research</i> , 1998, 103, 15339-15360.	3.3	70
218	Structure, flow, and generalized conductivity scaling in fracture networks. <i>Water Resources Research</i> , 1998, 34, 2103-2121.	4.2	73
219	Flow in rock fractures: The local cubic law assumption reexamined. <i>Water Resources Research</i> , 1998, 34, 2811-2825.	4.2	290
220	Will the Dead Sea die?. <i>Geology</i> , 1998, 26, 755.	4.4	93
221	Theory of anomalous chemical transport in random fracture networks. <i>Physical Review E</i> , 1998, 57, 5858-5869.	2.1	267
222	Theory of continuum percolation. III. Low-density expansion. <i>Physical Review E</i> , 1997, 56, 1379-1395.	2.1	14
223	Anomalous Transport in Random Fracture Networks. <i>Physical Review Letters</i> , 1997, 79, 4038-4041.	7.8	288
224	Fractal and multifractal measures of natural and synthetic fracture networks. <i>Journal of Geophysical Research</i> , 1997, 102, 12205-12218.	3.3	84
225	Reactive Solute Transport in a Single Fracture. <i>Water Resources Research</i> , 1996, 32, 901-913.	4.2	84
226	Influence of embedded fractures on contaminant diffusion in geological formations. <i>Geophysical Research Letters</i> , 1996, 23, 925-928.	4.0	6
227	Aquifer Characteristics Derived From the Interaction Between Water Levels of a Terminal Lake (Dead) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	80
228	Continuum percolation conductivity exponents in restricted domains. <i>Journal of Statistical Physics</i> , 1995, 80, 1415-1423.	1.2	6
229	Analysis of fracture network connectivity using percolation theory. <i>Mathematical Geosciences</i> , 1995, 27, 467-483.	0.9	190
230	Application of the central-particle-potential approximation for percolation in interacting systems. <i>Physical Review E</i> , 1995, 52, 4482-4494.	2.1	13
231	Anaerobic treatment of intensive fish culture effluents: digestion of fish feed and release of volatile fatty acids. <i>Aquaculture</i> , 1995, 133, 9-20.	3.5	36
232	Are sedimentary salt layers always impermeable?. <i>Geophysical Research Letters</i> , 1995, 22, 2761-2764.	4.0	17
233	On Characterization of Anomalous Dispersion in Porous and Fractured Media. <i>Water Resources Research</i> , 1995, 31, 1461-1466.	4.2	186
234	Random-adding determination of percolation thresholds in interacting systems. <i>Physical Review E</i> , 1994, 49, R949-R952.	2.1	20

#	ARTICLE	IF	CITATIONS
235	Is Old Faithful a strange attractor?. <i>Journal of Geophysical Research</i> , 1994, 99, 4495-4503.	3.3	21
236	Mass transfer at fracture intersections: An evaluation of mixing models. <i>Water Resources Research</i> , 1994, 30, 1765-1773.	4.2	99
237	Vertical Heterogeneity in Horizontal Components of Specific Discharge: Case Study Analysis. <i>Ground Water</i> , 1993, 31, 33-40.	1.3	8
238	The interaction of two major old water bodies and its implication for the exploitation of groundwater in the multiple aquifer system of the central and northern Negev, Israel. <i>Journal of Hydrology</i> , 1993, 143, 169-190.	5.4	21
239	Percolation theory and its application to groundwater hydrology. <i>Water Resources Research</i> , 1993, 29, 775-794.	4.2	278
240	Reply [to "Comment on "Analysis of subsurface flow and formation anisotropy in a fractured aquitard using transient water level data" by B. Rophe, B. Berkowitz, M. Magaritz, and D. Ronen]. <i>Water Resources Research</i> , 1993, 29, 4175-4175.	4.2	0
241	Analysis of subsurface flow and formation anisotropy in a fractured aquitard using transient water level data. <i>Water Resources Research</i> , 1992, 28, 199-207.	4.2	14
242	A spatial, time-dependent approach to estimation of hydrologic data. <i>Journal of Hydrology</i> , 1992, 135, 133-142.	5.4	5
243	The Nubian Sandstone aquifer in the central and northern Negev, Israel: delineation of the hydrogeological model under conditions of scarce data. <i>Journal of Hydrology</i> , 1992, 132, 107-135.	5.4	24
244	Percolation approach to the problem of hydraulic conductivity in porous media. <i>Transport in Porous Media</i> , 1992, 9, 275-286.	2.6	52
245	Modeling of surface roughness effects on glaze ice accretion. <i>Journal of Thermophysics and Heat Transfer</i> , 1991, 5, 54-60.	1.6	40
246	Solute transport in fracture channel and parallel plate models. <i>Geophysical Research Letters</i> , 1991, 18, 227-230.	4.0	13
247	Application of a percolation model to flow in fractured hard rocks. <i>Journal of Geophysical Research</i> , 1991, 96, 10015-10021.	3.3	66
248	Dispersion in Sub-Representative Elementary Volume Fracture Networks: Percolation Theory and Random Walk Approaches. <i>Water Resources Research</i> , 1991, 27, 3159-3164.	4.2	23
249	An algorithm and Pascal program for geostatistical mapping. <i>Computers and Geosciences</i> , 1991, 17, 489-503.	4.2	1
250	Analytic derivation of percolation thresholds in anisotropic systems of permeable objects. <i>Physical Review A</i> , 1991, 43, 6604-6612.	2.5	34
251	Can contaminated, fractured, porous aquifers be restored?. <i>Die Naturwissenschaften</i> , 1990, 77, 431-433.	1.6	3
252	Column Relaxation Methods for Least Norm Problems. <i>SIAM Journal on Scientific and Statistical Computing</i> , 1990, 11, 975-989.	1.5	8

#	ARTICLE	IF	CITATIONS
253	The development and influence of gas bubbles in phreatic aquifers under natural flow conditions. <i>Transport in Porous Media</i> , 1989, 4, 295.	2.6	57
254	Boundary conditions along permeable fracture walls: Influence on flow and conductivity. <i>Water Resources Research</i> , 1989, 25, 1919-1922.	4.2	39
255	A scale-dependent equation for solute transport in porous media. <i>Transport in Porous Media</i> , 1988, 3, 199-205.	2.6	2
256	Pre-posterior analysis as a tool for data evaluation: Application to aquifer contamination. <i>Water Resources Management</i> , 1988, 2, 11-20.	3.9	25
257	Continuum models for contaminant transport in fractured porous formations. <i>Water Resources Research</i> , 1988, 24, 1225-1236.	4.2	152
258	Comment on "The Operational Significance of the Continuum Hypothesis in the Theory of Water Movement Through Soils and Aquifers" by P. Baveye and G. Sposito. <i>Water Resources Research</i> , 1985, 21, 1293-1293.	4.2	1
259	Water Flow and Solute Transport in Unsaturated Fractured Chalk. <i>Geophysical Monograph Series</i> , 0, , 183-196.	0.1	2
260	Mobility and Retention of Rare Earth Elements in Porous Media. <i>ACS Omega</i> , 0, , .	3.5	3
261	Magnetic resonance imaging of in vitro urine flow in single and tandem stented ureters subject to extrinsic ureteral obstruction. <i>International Journal of Urology</i> , 0, , .	1.0	3
262	Air Injection into Water-Saturated Granular Media. <i>Water Resources Research</i> , 0, , .	4.2	3