

C T Miller

List of Publications by Year in descending order

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160
papers

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41344
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163
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163
docs citations

163
times ranked

4336
citing authors

#	ARTICLE	IF	CITATIONS
1	An evaluation of lattice Boltzmann schemes for porous medium flow simulation. Computers and Fluids, 2006, 35, 898-909.	2.5	617
2	Dissolution of Trapped Nonaqueous Phase Liquids: Mass Transfer Characteristics. Water Resources Research, 1990, 26, 2783-2796.	4.2	483
3	Lattice-Boltzmann simulation of two-phase flow in porous media. Water Resources Research, 2004, 40, .	4.2	329
4	Pore-morphology-based simulation of drainage in totally wetting porous media. Advances in Water Resources, 2001, 24, 243-255.	3.8	289
5	Multiphase flow and transport modeling in heterogeneous porous media: challenges and approaches. Advances in Water Resources, 1998, 21, 77-120.	3.8	263
6	Pore-scale investigation of viscous coupling effects for two-phase flow in porous media. Physical Review E, 2005, 72, 026705.	2.1	177
7	Modelling the fate of oxidisable organic contaminants in groundwater. Advances in Water Resources, 2002, 25, 945-983.	3.8	157
8	Accurate and economical solution of the pressure-head form of Richards' equation by the method of lines. Advances in Water Resources, 1997, 20, 1-14.	3.8	137
9	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 1. Motivation and overview. Advances in Water Resources, 2005, 28, 161-180.	3.8	131
10	The influence of mass transfer characteristics and porous media heterogeneity on nonaqueous phase dissolution. Water Resources Research, 1996, 32, 1551-1567.	4.2	124
11	A multiphase model for three-dimensional tumor growth. New Journal of Physics, 2013, 15, 015005.	2.9	124
12	Pore-scale modeling of saturated permeabilities in random sphere packings. Physical Review E, 2001, 64, 066702.	2.1	121
13	Cosolvent-Enhanced Remediation of Residual Dense Nonaqueous Phase Liquids: Experimental Investigation. Environmental Science & Technology, 1995, 29, 1966-1976.	10.0	120
14	Robust solution of Richards' equation for nonuniform porous media. Water Resources Research, 1998, 34, 2599-2610.	4.2	116
15	The influence of porous medium characteristics and measurement scale on pore-scale distributions of residual nonaqueous-phase liquids. Journal of Contaminant Hydrology, 1992, 11, 189-213.	3.3	115
16	Heterogeneous sorption processes in subsurface systems. 1. Model formulations and applications.. Environmental Science & Technology, 1994, 28, 2094-2104.	10.0	110
17	A comparison of two physics-based numerical models for simulating surface water–groundwater interactions. Advances in Water Resources, 2010, 33, 456-467.	3.8	108
18	Computation of the interfacial area for two-fluid porous medium systems. Journal of Contaminant Hydrology, 2002, 56, 25-48.	3.3	106

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19	Optimal design for problems involving flow and transport phenomena in saturated subsurface systems. <i>Advances in Water Resources</i> , 2002, 25, 1233-1256.	3.8	106
20	Use of a reactive surface-diffusion model to describe apparent sorption-desorption hysteresis and abiotic degradation of lindane in a subsurface material. <i>Environmental Science & Technology</i> , 1992, 26, 1417-1427.	10.0	102
21	Pore-Scale Modeling of Nonwetting-Phase Residual in Porous Media. <i>Water Resources Research</i> , 1995, 31, 455-473.	4.2	98
22	A high-performance lattice Boltzmann implementation to model flow in porous media. <i>Computer Physics Communications</i> , 2004, 158, 89-105.	7.5	97
23	Dissolution Fingering During the Solubilization of Nonaqueous Phase Liquids in Saturated Porous Media: 2. Experimental Observations. <i>Water Resources Research</i> , 1996, 32, 1929-1942.	4.2	90
24	Simulation of correlated and uncorrelated packing of random size spheres. <i>Physical Review E</i> , 1996, 53, 1516-1524.	2.1	90
25	Geometric state function for two-fluid flow in porous media. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	87
26	Convergence of iterative split-operator approaches for approximating nonlinear reactive transport problems. <i>Advances in Water Resources</i> , 2003, 26, 247-261.	3.8	86
27	A spatially and temporally adaptive solution of Richards's equation. <i>Advances in Water Resources</i> , 2006, 29, 525-545.	3.8	82
28	Comparison of derivative-free optimization methods for groundwater supply and hydraulic capture community problems. <i>Advances in Water Resources</i> , 2008, 31, 743-757.	3.8	81
29	Modeling the sorption of hydrophobic contaminants by aquifer materials. I. Rates and equilibria. <i>Water Research</i> , 1988, 22, 457-464.	11.3	77
30	Dissolution Fingering During the Solubilization of Nonaqueous Phase Liquids in Saturated Porous Media: 1. Model Predictions. <i>Water Resources Research</i> , 1996, 32, 1919-1928.	4.2	73
31	Numerical simulation of water resources problems: Models, methods, and trends. <i>Advances in Water Resources</i> , 2013, 51, 405-437.	3.8	73
32	Averaging theory for description of environmental problems: What have we learned?. <i>Advances in Water Resources</i> , 2013, 51, 123-138.	3.8	72
33	Physicochemical Transport Processes Affecting the Removal of Residual DNAPL by Nonionic Surfactant Solutions. <i>Environmental Science & Technology</i> , 1996, 30, 1852-1860.	10.0	68
34	Temporal discretisation errors in non-iterative split-operator approaches to solving chemical reaction/groundwater transport models. <i>Journal of Contaminant Hydrology</i> , 1996, 22, 1-17.	3.3	66
35	Recovery of Phenanthrene-Degrading Bacteria after Simulated in Situ Persulfate Oxidation in Contaminated Soil. <i>Environmental Science & Technology</i> , 2011, 45, 719-725.	10.0	66
36	A novel heterogeneous algorithm to simulate multiphase flow in porous media on multicore CPU-GPU systems. <i>Computer Physics Communications</i> , 2014, 185, 1865-1874.	7.5	63

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37	An experimental investigation of pore-scale distributions of nonaqueous phase liquids at residual saturation. <i>Transport in Porous Media</i> , 1993, 10, 57-80.	2.6	62
38	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 2. Foundation. <i>Advances in Water Resources</i> , 2005, 28, 181-202.	3.8	62
39	Two-dimensional modeling of aquifer remediation influenced by sorption nonequilibrium and hydraulic conductivity heterogeneity. <i>Water Resources Research</i> , 1994, 30, 1457-1470.	4.2	61
40	Evaluation of Thermal Effects on the Dissolution of a Nonaqueous Phase Liquid in Porous Media. <i>Environmental Science & Technology</i> , 1997, 31, 1615-1622.	10.0	61
41	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 6. Two-fluid-phase flow. <i>Advances in Water Resources</i> , 2009, 32, 779-795.	3.8	59
42	Heterogeneous Sorption Processes in Subsurface Systems. 2. Diffusion Modeling Approaches. <i>Environmental Science & Technology</i> , 1995, 29, 1766-1772.	10.0	58
43	Quantitative analysis of experiments on bacterial chemotaxis to naphthalene. <i>Biotechnology and Bioengineering</i> , 2002, 78, 626-634.	3.3	55
44	Higher order time integration methods for two-phase flow. <i>Advances in Water Resources</i> , 2002, 25, 159-177.	3.8	55
45	Development of split-operator, Petrov-Galerkin Methods to simulate transport and diffusion problems. <i>Water Resources Research</i> , 1993, 29, 2227-2240.	4.2	53
46	Remediation of DNAPL-Contaminated Subsurface Systems Using Density-Motivated Mobilization. <i>Environmental Science & Technology</i> , 2000, 34, 719-724.	10.0	53
47	Mixed finite element methods and higher order temporal approximations for variably saturated groundwater flow. <i>Advances in Water Resources</i> , 2003, 26, 373-394.	3.8	53
48	Dense non-aqueous phase liquids at former manufactured gas plants: Challenges to modeling and remediation. <i>Journal of Contaminant Hydrology</i> , 2009, 105, 81-98.	3.3	53
49	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 5. Single-fluid-phase transport. <i>Advances in Water Resources</i> , 2009, 32, 681-711.	3.8	53
50	Examination of Darcy's Law for Flow in Porous Media with Variable Porosity. <i>Environmental Science & Technology</i> , 2004, 38, 5895-5901.	10.0	50
51	Computational Bayesian maximum entropy solution of a stochastic advection-reaction equation in the light of site-specific information. <i>Water Resources Research</i> , 2002, 38, 54-1-54-17.	4.2	48
52	Alternative split-operator approach for solving chemical reaction/groundwater transport models. <i>Advances in Water Resources</i> , 1996, 19, 261-275.	3.8	47
53	An evaluation of temporally adaptive transformation approaches for solving Richards' equation. <i>Advances in Water Resources</i> , 1999, 22, 831-840.	3.8	46
54	On the dynamics and kinematics of two-fluid-phase flow in porous media. <i>Water Resources Research</i> , 2015, 51, 5365-5381.	4.2	46

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55	Analysis of split operator methods for nonlinear and multispecies groundwater chemical transport models. <i>Mathematics and Computers in Simulation</i> , 1997, 43, 331-341.	4.4	45
56	Calibration of a Pore-Network Model by a Pore-Morphological Analysis. <i>Transport in Porous Media</i> , 2003, 51, 267-285.	2.6	44
57	Influence of phase connectivity on the relationship among capillary pressure, fluid saturation, and interfacial area in two-fluid-phase porous medium systems. <i>Physical Review E</i> , 2016, 94, 033102.	2.1	44
58	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 3. Single-fluid-phase flow. <i>Advances in Water Resources</i> , 2006, 29, 1745-1765.	3.8	42
59	TCAT analysis of capillary pressure in non-equilibrium, two-fluid-phase, porous medium systems. <i>Advances in Water Resources</i> , 2011, 34, 770-778.	3.8	42
60	Modeling the sorption of hydrophobic contaminants by aquifer materials—II. Column reactor systems. <i>Water Research</i> , 1988, 22, 465-474.	11.3	41
61	Investigation of the residual—funicular nonwetting-phase-saturation relation. <i>Advances in Water Resources</i> , 2000, 24, 157-177.	3.8	40
62	Modeling Organic Contaminant Partitioning in Ground-Water Systems. <i>Ground Water</i> , 1984, 22, 584-592.	1.3	39
63	Transformation approaches for simulating flow in variably saturated porous media. <i>Water Resources Research</i> , 2000, 36, 923-934.	4.2	39
64	Efficient steady-state solution techniques for variably saturated groundwater flow. <i>Advances in Water Resources</i> , 2003, 26, 833-849.	3.8	36
65	An Aggregation-Based Domain Decomposition Preconditioner for Groundwater Flow. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 430-441.	2.8	35
66	Local discontinuous Galerkin approximations to Richards's equation. <i>Advances in Water Resources</i> , 2007, 30, 555-575.	3.8	35
67	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 4. Species transport fundamentals. <i>Advances in Water Resources</i> , 2008, 31, 577-597.	3.8	35
68	Stochastic Diagrammatic Analysis of Groundwater Flow in Heterogeneous Porous Media. <i>Water Resources Research</i> , 1995, 31, 1687-1703.	4.2	33
69	Complete Dissolution of Trichloroethylene in Saturated Porous Media. <i>Environmental Science & Technology</i> , 1998, 32, 2417-2424.	10.0	33
70	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 9. Transition region models. <i>Advances in Water Resources</i> , 2012, 42, 71-90.	3.8	33
71	Hydrogeological Research: Just Getting Started. <i>Ground Water</i> , 2002, 40, 224-231.	1.3	32
72	Bacterial Regrowth Model for Water Distribution Systems Incorporating Alternating Split-Operator Solution Technique. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 932-941.	1.4	31

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73	An analysis of polynomial chaos approximations for modeling single-fluid-phase flow in porous medium systems. Journal of Computational Physics, 2007, 226, 2175-2205.	3.8	31
74	Remediation of DNAPL Pools Using Dense Brine Barrier Strategies. Environmental Science & Technology, 2001, 35, 3031-3039.	10.0	30
75	Adaptive local discontinuous Galerkin approximation to Richards's equation. Advances in Water Resources, 2007, 30, 1883-1901.	3.8	30
76	A comparison of high-resolution, finite-volume, adaptive stencil schemes for simulating advective-dispersive transport. Advances in Water Resources, 2000, 24, 29-48.	3.8	29
77	Mixed finite element methods and higher-order temporal approximations. Advances in Water Resources, 2002, 25, 85-101.	3.8	29
78	A BME solution of the inverse problem for saturated groundwater flow. Stochastic Environmental Research and Risk Assessment, 2003, 17, 354-369.	4.0	28
79	A generalization of averaging theorems for porous medium analysis. Advances in Water Resources, 2013, 62, 227-237.	3.8	27
80	Development of a correlation for aqueous-vapor phase mass transfer in porous media. Journal of Contaminant Hydrology, 1995, 18, 85-106.	3.3	26
81	Surfactant-Enhanced Dissolution of Phenanthrene into Water for Laminar Flow Conditions. Environmental Science & Technology, 1996, 30, 2967-2974.	10.0	26
82	Comparison of fully coupled approaches for approximating nonlinear transport and reaction problems. Advances in Water Resources, 2003, 26, 353-372.	3.8	26
83	Efficient, Near-Complete Removal of DNAPL from Three-Dimensional, Heterogeneous Porous Media Using a Novel Combination of Treatment Technologies. Environmental Science & Technology, 2004, 38, 5149-5156.	10.0	26
84	Factors Affecting Bank Formation during Surfactant-Enhanced Mobilization of Residual NAPL. Environmental Science & Technology, 1999, 33, 2440-2446.	10.0	25
85	Modeling NAPL dissolution fingering with upscaled mass transfer rate coefficients. Advances in Water Resources, 2003, 26, 1097-1111.	3.8	25
86	The influence of wettability on NAPL dissolution fingering. Advances in Water Resources, 2008, 31, 1687-1696.	3.8	25
87	Organic Chemical Movement over and through Soil. SSSA Special Publication Series, 0, , 305-334.	0.2	25
88	Tracking interface and common curve dynamics for two-fluid flow in porous media. Journal of Fluid Mechanics, 2016, 796, 211-232.	3.4	25
89	Mass transfer rate limitation effects on partitioning tracer tests. Journal of Contaminant Hydrology, 2000, 45, 79-97.	3.3	24
90	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 8. Interface and common curve dynamics. Advances in Water Resources, 2010, 33, 1427-1443.	3.8	24

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91	Influence of porous media heterogeneity on nonaqueous phase liquid dissolution fingering and upscaled mass transfer. <i>Water Resources Research</i> , 2012, 48, .	4.2	24
92	Nonhysteretic Capillary Pressure in Two-Fluid Porous Medium Systems: Definition, Evaluation, Validation, and Dynamics. <i>Water Resources Research</i> , 2019, 55, 6825-6849.	4.2	24
93	Evolving interface between clean and nonaqueous phase liquid (NAPL)-contaminated regions in two-dimensional porous media. <i>Water Resources Research</i> , 2002, 38, 29-1-29-14.	4.2	23
94	Modeling the removal of dissolved organic carbon by ion exchange in a completely mixed flow reactor. <i>Water Research</i> , 2008, 42, 1897-1906.	11.3	23
95	Stochastic perturbation analysis of groundwater flow. Spatially variable soils, semi-infinite domains and large fluctuations. <i>Stochastic Hydrology & Hydraulics</i> , 1993, 7, 213-239.	0.5	22
96	A quadratic Petrov-Galerkin Solution for kinematic wave overland flow. <i>Water Resources Research</i> , 1993, 29, 2615-2627.	4.2	22
97	C++ implementations of numerical methods for solving differential-algebraic equations. <i>ACM Transactions on Mathematical Software</i> , 1999, 25, 377-403.	2.9	22
98	Solution of a Well-Field Design Problem with Implicit Filtering. <i>Optimization and Engineering</i> , 2004, 5, 207-234.	2.4	22
99	Pore-scale simulation of entrapped non-aqueous phase liquid dissolution. <i>Advances in Water Resources</i> , 2007, 30, 623-640.	3.8	21
100	Thermodynamically constrained averaging theory approach for modeling flow and transport phenomena in porous medium systems: 7. Single-phase megascale flow models. <i>Advances in Water Resources</i> , 2009, 32, 1121-1142.	3.8	20
101	Approximation of interfacial properties in multiphase porous medium systems. <i>Advances in Water Resources</i> , 2007, 30, 354-365.	3.8	19
102	Modeling two-fluid-phase flow and species transport in porous media. <i>Journal of Hydrology</i> , 2015, 521, 565-581.	5.4	19
103	Adaptive split-operator methods for modeling transport phenomena in porous medium systems. <i>Advances in Water Resources</i> , 2011, 34, 1268-1282.	3.8	18
104	10.1029/90WR01694. <i>Water Resources Research</i> , 2010, , .	4.2	18
105	The averaging of gravity currents in porous media. <i>Physics of Fluids</i> , 2003, 15, 2810.	4.0	18
106	Modeling long-term solute transport in drained unsaturated zones. <i>Water Resources Research</i> , 1992, 28, 2799-2809.	4.2	16
107	Termination of Newton/Chord Iterations and the Method of Lines. <i>SIAM Journal of Scientific Computing</i> , 1998, 19, 280-290.	2.8	16
108	The Boundary Integral Equation Method (BIEM) Local Exhaust Hood Flow Fields. <i>AIHA Journal</i> , 1989, 50, 281-288.	0.4	15

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109	An ELLAM approximation for advective–dispersive transport with nonlinear sorption. <i>Advances in Water Resources</i> , 2006, 29, 657-675.	3.8	15
110	Consistent thermodynamic formulations for multiscale hydrologic systems: Fluid pressures. <i>Water Resources Research</i> , 2007, 43, .	4.2	15
111	Description of non-Darcy flows in porous medium systems. <i>Physical Review E</i> , 2013, 87, .	2.1	15
112	Experimental Investigation on the Resonance of a Liquid Column in a Capillary Tube. <i>Journal of Colloid and Interface Science</i> , 1999, 219, 62-68.	9.4	14
113	Hydrogeological Research, Education, and Practice: A Path to Future Contributions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 7-12.	1.9	13
114	Beyond Anisotropy: Examining Non-Darcy Flow in Asymmetric Porous Media. <i>Transport in Porous Media</i> , 2010, 84, 535-548.	2.6	13
115	Type 2 Diabetes Self-management Among Spanish-Speaking Hispanic Immigrants. <i>Journal of Immigrant and Minority Health</i> , 2016, 18, 1392-1403.	1.6	13
116	Solution of a Groundwater Control Problem with Implicit Filtering. <i>Optimization and Engineering</i> , 2002, 3, 189-199.	2.4	12
117	Advances in Modeling Completely Mixed Flow Reactors for Ion Exchange. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 1128-1138.	1.4	12
118	Mobilization of Manufactured Gas Plant Tar with Alkaline Flushing Solutions. <i>Environmental Science & Technology</i> , 2012, 46, 426-433.	10.0	12
119	Rapid Solution of the Nonlinear Step-Drawdown Equation. <i>Ground Water</i> , 1983, 21, 584-588.	1.3	11
120	The development of stochastic space transformation and diagrammatic perturbation techniques in subsurface hydrology. <i>Stochastic Hydrology & Hydraulics</i> , 1993, 7, 14-32.	0.5	11
121	Thermodynamically Constrained Averaging Theory Approach for Heat Transport in Single-Fluid-Phase Porous Medium Systems. <i>Journal of Heat Transfer</i> , 2009, 131, .	2.1	11
122	Molecular methods for assessing the morphology, topology, and performance of polyamide membranes. <i>Journal of Membrane Science</i> , 2022, 644, 120110.	8.2	11
123	A comparison of physicochemical methods for the remediation of porous medium systems contaminated with tar. <i>Journal of Contaminant Hydrology</i> , 2014, 167, 44-60.	3.3	10
124	Petascale Application of a Coupled CPU-GPU Algorithm for Simulation and Analysis of Multiphase Flow Solutions in Porous Medium Systems. , 2014, , .		10
125	DISCRETE VORTEX METHODS FOR THE SIMULATION OF BOUNDARY LAYER SEPARATION EFFECTS ON WORKER EXPOSURE. <i>Annals of Occupational Hygiene</i> , 1991, 35, 35-50.	1.9	9
126	An adaptive lattice Boltzmann scheme for modeling two–fluid–phase flow in porous medium systems. <i>Water Resources Research</i> , 2016, 52, 2601-2617.	4.2	9

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127	A Priori Parameter Estimation for the Thermodynamically Constrained Averaging Theory: Species Transport in a Saturated Porous Medium. <i>Transport in Porous Media</i> , 2018, 122, 611-632.	2.6	9
128	Modeling Nondilute Species Transport Using the Thermodynamically Constrained Averaging Theory. <i>Water Resources Research</i> , 2018, 54, 6656-6682.	4.2	9
129	COMPARISON OF MODELS FOR FLOW THROUGH FLANGED AND PLAIN CIRCULAR HOODS. <i>Annals of Occupational Hygiene</i> , 1988, , .	1.9	8
130	Comment on "A Distributed Reactivity Model for Sorption by Soils and Sediments. 4. Intraparticle Heterogeneity and Phase-Distribution Relationships under Nonequilibrium Conditions". <i>Environmental Science & Technology</i> , 1996, 30, 3128-3129.	10.0	8
131	EVALUATION OF PATH-LENGTH ESTIMATORS FOR CHARACTERIZING MULTIPHASE SYSTEMS USING POLYENERGETIC X-RAY ABSORPTIOMETRY. <i>Soil Science</i> , 2002, 167, 703-719.	0.9	8
132	Versatile Two-Level Schwarz Preconditioners for Multiphase Flow. <i>Computational Geosciences</i> , 2003, 7, 91-114.	2.4	8
133	Cosolvent flushing for the remediation of PAHs from former manufactured gas plants. <i>Journal of Contaminant Hydrology</i> , 2011, 126, 72-84.	3.3	8
134	A Pedagogical Approach to the Thermodynamically Constrained Averaging Theory. <i>Transport in Porous Media</i> , 2017, 119, 585-609.	2.6	8
135	Effects of model resolution on optimal design of subsurface flow and transport problems. <i>Advances in Water Resources</i> , 2012, 38, 27-37.	3.8	7
136	Response to comment on "Averaging theory for description of environmental problems: What have we learned?". <i>Advances in Water Resources</i> , 2013, 52, 331-333.	3.8	7
137	Characterization of the Pore Structure of Porous Media Using non-Newtonian Fluids. <i>Water Resources Research</i> , 2019, 55, 7182-7195.	4.2	7
138	Modelling sediment transport in three-phase surface water systems. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 439-463.	1.7	7
139	Implicit Filtering and Optimal Design Problems. , 1995, , 159-176.		7
140	A sharp-interface interpretation of a continuous density model for homogenization of gravity-driven flow in porous media. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1855-1866.	2.8	6
141	A continuum mechanical framework for modeling tumor growth and treatment in two- and three-phase systems. <i>Archive of Applied Mechanics</i> , 2022, 92, 461-489.	2.2	6
142	Scholarly Journal Publication: Conflicting Agendas for Scholars, Publishers, and Institutions. <i>Journal of Scholarly Publishing</i> , 2004, 35, 73-91.	0.6	6
143	Mathematical description of the uptake of hydrocarbons in jet fuel into the stratum corneum of human volunteers. <i>Toxicology Letters</i> , 2008, 178, 146-151.	0.8	5
144	Dense, viscous brine behavior in heterogeneous porous medium systems. <i>Journal of Contaminant Hydrology</i> , 2010, 115, 46-63.	3.3	5

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145	Two-phase flow modeling of the influence of wave shapes and bed slope on nearshore hydrodynamics. Journal of Coastal Research, 2013, 65, 159-164.	0.3	5
146	On the consistency of scale among experiments, theory, and simulation. Hydrology and Earth System Sciences, 2017, 21, 1063-1076.	4.9	5
147	Thermodynamically Constrained Averaging Theory: Principles, Model Hierarchies, and Deviation Kinetic Energy Extensions. Entropy, 2018, 20, 253.	2.2	5
148	TEMPORAL DISTRIBUTION OF 14C IN SOIL WATER FROM FIELD LYSIMETERS TREATED WITH 14C-METOLACHLOR. Soil Science, 1998, 163, 872-882.	0.9	5
149	Evaluation of a Carbon Adsorption Method for Sampling Gasoline Vapors in the Subsurface. Ground Water Monitoring and Remediation, 1988, 8, 85-92.	0.8	4
150	Effectiveness of Source-Zone Remediation of DNAPL-Contaminated Subsurface Systems. Journal of Environmental Engineering, ASCE, 2010, 136, 452-465.	1.4	4
151	Toward a New Generation of Two-Fluid Flow Models Based on the Thermodynamically-Constrained Averaging Theory. Water (Switzerland), 2019, 11, 2260.	2.7	4
152	Generalized Newtonian fluid flow in porous media. Physical Review Fluids, 2021, 6, .	2.5	4
153	Comment on "Dynamics of wetting fronts in porous media". Physical Review E, 2000, 61, 2150-2151.	2.1	3
154	Compositional and pH Effects on the Interfacial Tension Between Complex Tar Mixtures and Aqueous Solutions. Environmental Science & Technology, 2012, 46, 10214-10221.	10.0	3
155	Microscale modeling of nondilute flow and transport in porous medium systems. Physical Review E, 2020, 102, 033104.	2.1	3
156	An evaluation of solution algorithms and numerical approximation methods for modeling an ion exchange process. Journal of Computational Physics, 2010, 229, 4996-5010.	3.8	2
157	Cleopatra's Nose and the Diagrammatic Approach to Flow Modelling in Random Porous Media. Quantitative Geology and Geostatistics, 1994, , 341-358.	0.1	2
158	On gravity currents in heterogeneous porous media. Developments in Water Science, 2004, 55, 303-312.	0.1	1
159	Homogenization of one-dimensional draining through heterogeneous porous media including higher-order approximations. Physica D: Nonlinear Phenomena, 2018, 365, 42-56.	2.8	1
160	A physically-based entropy production rate method to simulate sharp-front transport problems in porous medium systems. Computational Geosciences, 2021, 25, 1047-1061.	2.4	0