

Daniel M Tartakovsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

210
papers

4,464
citations

38
h-index

57
g-index

228
ext. papers

4,989
ext. citations

4.1
avg, IF

6.14
L-index

#	Paper	IF	Citations
210	Polynomial Chaos Expansions for Stiff Random ODEs. <i>SIAM Journal of Scientific Computing</i> , 2022 , 44, A1021-A1046	2.6	0
209	Estimation of Evapotranspiration Rates and Root Water Uptake Profiles From Soil Moisture Sensor Array Data. <i>Water Resources Research</i> , 2021 , 57, e2021WR030747	5.4	0
208	Thermal Experiments for Fractured Rock Characterization: Theoretical Analysis and Inverse Modeling. <i>Water Resources Research</i> , 2021 , 57, e2021WR030608	5.4	1
207	A model of anemic tissue perfusion after blood transfusion shows critical role of endothelial response to shear stress stimuli. <i>Journal of Applied Physiology</i> , 2021 , 131, 1815-1823	3.7	0
206	Consensus Equilibrium for Subsurface Delineation. <i>Water Resources Research</i> , 2021 , 57, e2021WR030151	5.4	0
205	Lagrangian models of particle-laden flows with stochastic forcing: Monte Carlo, moment equations, and method of distributions analyses. <i>Physics of Fluids</i> , 2021 , 33, 033326	4.4	1
204	Hybrid models of chemotaxis with application to leukocyte migration. <i>Journal of Mathematical Biology</i> , 2021 , 82, 23	2	2
203	GINNs: Graph-Informed Neural Networks for multiscale physics. <i>Journal of Computational Physics</i> , 2021 , 433, 110192	4.1	5
202	Probabilistic Reconstruction of Hydrofacies With Support Vector Machines. <i>Water Resources Research</i> , 2021 , 57, e2021WR029622	5.4	0
201	Exponential time differencing for problems without natural stiffness separation. <i>Computational Geosciences</i> , 2021 , 25, 1667-1679	2.7	0
200	Data-driven discovery of coarse-grained equations. <i>Journal of Computational Physics</i> , 2021 , 434, 110219	4.1	6
199	Temperature estimation from current and voltage measurements in lithium-ion battery systems. <i>Journal of Energy Storage</i> , 2021 , 34, 102133	7.8	6
198	Markov chain Monte Carlo with neural network surrogates: application to contaminant source identification. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 639-651	3.5	12
197	Dynamics of Data-driven Ambiguity Sets for Hyperbolic Conservation Laws with Uncertain Inputs. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, A2102-A2129	2.6	0
196	Mutual information for explainable deep learning of multiscale systems. <i>Journal of Computational Physics</i> , 2021 , 444, 110551	4.1	3
195	Extended dynamic mode decomposition for inhomogeneous problems. <i>Journal of Computational Physics</i> , 2021 , 444, 110550	4.1	0
194	Reply to Comment by Wang, Che, and Ghidaoui on Bayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mains. <i>Water Resources Research</i> , 2020 , 56, e2020WR028603	5.4	0

193	Method of Distributions for Quantification of Geologic Uncertainty in Flow Simulations. <i>Water Resources Research</i> , 2020 , 56, e2020WR027643	5.4	5
192	Prediction Accuracy of Dynamic Mode Decomposition. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A1639-A1662	2.6	10
191	Structural and Magnetic Properties Control of Pr _{0.7} Ba _{0.3} MnO ₃ with Sr-Doping. <i>Physics of the Solid State</i> , 2020 , 62, 845-850	0.8	1
190	Data-Informed Method of Distributions for Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A559-A583	2.6	8
189	Bayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mains. <i>Water Resources Research</i> , 2020 , 56, e2019WR025879	5.4	11
188	Lagrangian dynamic mode decomposition for construction of reduced-order models of advection-dominated phenomena. <i>Journal of Computational Physics</i> , 2020 , 407, 109229	4.1	11
187	Learning on dynamic statistical manifolds. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200213	2.4	6
186	Modified immersed boundary method for flows over randomly rough surfaces. <i>Journal of Computational Physics</i> , 2020 , 406, 109195	4.1	1
185	Tensor methods for the Boltzmann-BGK equation. <i>Journal of Computational Physics</i> , 2020 , 421, 109744	4.1	6
184	Estimation of distributions via multilevel Monte Carlo with stratified sampling. <i>Journal of Computational Physics</i> , 2020 , 419, 109572	4.1	10
183	Accelerated Multilevel Monte Carlo With Kernel-Based Smoothing and Latinized Stratification. <i>Water Resources Research</i> , 2020 , 56, e2019WR026984	5.4	6
182	Resource-Constrained Model Selection for Uncertainty Propagation and Data Assimilation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2020 , 8, 1118-1138	1.8	2
181	Solute dispersion in bifurcating networks. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	2
180	Quantification of Predictive Uncertainty in Models of FtsZ ring assembly in Escherichia coli. <i>Journal of Theoretical Biology</i> , 2020 , 484, 110006	2.3	
179	Analytical model for gravity segregation of horizontal multiphase flow in porous media. <i>Physics of Fluids</i> , 2020 , 32, 046602	4.4	9
178	A Mechanistic Analysis of Possible Blood Transfusion Failure to Increase Circulatory Oxygen Delivery in Anemic Patients. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 1094-1105	4.7	3
177	Microstructural heterogeneity drives reaction initiation in granular materials. <i>Applied Physics Letters</i> , 2019 , 114, 254101	3.4	3
176	Diffusion in Porous Media: Phenomena and Mechanisms. <i>Transport in Porous Media</i> , 2019 , 130, 105-127	3.1	30

175	Causality and Bayesian Network PDEs for multiscale representations of porous media. <i>Journal of Computational Physics</i> , 2019 , 394, 658-678	4.1	8
174	Distribution-Based Global Sensitivity Analysis in Hydrology. <i>Water Resources Research</i> , 2019 , 55, 8708-8720	3.4	13
173	Stochastic self-tuning hybrid algorithm for reaction-diffusion systems. <i>Journal of Chemical Physics</i> , 2019 , 151, 244117	3.9	4
172	Probabilistic Forecast of Single-Phase Flow in Porous Media With Uncertain Properties. <i>Water Resources Research</i> , 2019 , 55, 8631-8645	5.4	6
171	Efficient gHMC Reconstruction of Contaminant Release History. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	4
170	Global sensitivity analysis of multiscale properties of porous materials. <i>Journal of Applied Physics</i> , 2018 , 123, 075103	2.5	4
169	Efficient models of polymerization applied to FtsZ ring assembly in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4933-4938	11.5	4
168	Nonlocal PDF methods for Langevin equations with colored noise. <i>Journal of Computational Physics</i> , 2018 , 367, 87-101	4.1	5
167	A Hybrid Multiscale Model of Miscible Reactive Fronts. <i>Water Resources Research</i> , 2018 , 54, 61-71	5.4	6
166	Hydrodynamic dispersion in a tube with diffusive losses through its walls. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 546-561	3.7	6
165	The frequency domain approach to analyse field-scale miscible flow transport experiments in the soils. <i>Biosystems Engineering</i> , 2018 , 168, 96-104	4.8	1
164	Information-Theoretic Approach to Bidirectional Scaling. <i>Water Resources Research</i> , 2018 , 54, 4916-4928	5.4	6
163	Probabilistic Forecasting of Nitrogen Dynamics in Hyporheic Zone. <i>Water Resources Research</i> , 2018 , 54, 4417-4431	5.4	4
162	Method of Distributions for Water Hammer Equations With Uncertain Parameters. <i>Water Resources Research</i> , 2018 , 54, 9398-9411	5.4	15
161	Parallel tensor methods for high-dimensional linear PDEs. <i>Journal of Computational Physics</i> , 2018 , 375, 519-539	4.1	8
160	Interpretation of Heat-Pulse Tracer Tests for Characterization of Three-Dimensional Velocity Fields in Hyporheic Zone. <i>Water Resources Research</i> , 2018 , 54, 4028-4039	5.4	4
159	On the use of reverse Brownian motion to accelerate hybrid simulations. <i>Journal of Computational Physics</i> , 2017 , 334, 68-80	4.1	3
158	Effective Ion Diffusion in Charged Nanoporous Materials. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E53-E61	3.9	21

157	Posttransfusion Increase of Hematocrit per se Does Not Improve Circulatory Oxygen Delivery due to Increased Blood Viscosity. <i>Anesthesia and Analgesia</i> , 2017 , 124, 1547-1554	3.9	19
156	Optimal design of nanoporous materials for electrochemical devices. <i>Applied Physics Letters</i> , 2017 , 110, 143103	3.4	3
155	A tightly-coupled domain-decomposition approach for highly nonlinear stochastic multiphysics systems. <i>Journal of Computational Physics</i> , 2017 , 330, 884-901	4.1	3
154	An analytical model for carrier-facilitated solute transport in weakly heterogeneous porous media. <i>Applied Mathematical Modelling</i> , 2017 , 44, 261-273	4.5	3
153	. <i>Proceedings of the IEEE</i> , 2017 , 105, 319-329	14.3	
152	Effects of Hydraulic Soil Properties on Vegetation Pattern Formation in Sloping Landscapes. <i>Bulletin of Mathematical Biology</i> , 2017 , 79, 2773-2784	2.1	4
151	Impact of parametric uncertainty on estimation of the energy deposition into an irradiated brain tumor. <i>Journal of Computational Physics</i> , 2017 , 348, 139-150	4.1	3
150	Estimation of Intrinsic Length Scales of Flow in Unsaturated Porous Media. <i>Water Resources Research</i> , 2017 , 53, 9980-9987	5.4	7
149	Impact of Hydrogeological Uncertainty on Estimation of Environmental Risks Posed by Hydrocarbon Transportation Networks. <i>Water Resources Research</i> , 2017 , 53, 8686-8697	5.4	9
148	Method of Distributions for Uncertainty Quantification 2017 , 763-783		3
147	Particle Methods for Heat Transfer in Fractured Media. <i>Transport in Porous Media</i> , 2016 , 115, 311-326	3.1	14
146	Noise-driven interfaces and their macroscopic representation. <i>Physical Review E</i> , 2016 , 94, 052802	2.4	1
145	Efficient Multiscale Models of Polymer Assembly. <i>Biophysical Journal</i> , 2016 , 111, 185-96	2.9	5
144	Shear-Induced Nitric Oxide Production by Endothelial Cells. <i>Biophysical Journal</i> , 2016 , 111, 208-21	2.9	46
143	Conservative tightly-coupled simulations of stochastic multiscale systems. <i>Journal of Computational Physics</i> , 2016 , 313, 400-414	4.1	4
142	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. <i>GigaScience</i> , 2016 , 5, 14	7.6	7
141	Analytical models of axisymmetric reaction-diffusion phenomena in composite media. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 425-431	4.9	5
140	Stochastic Collocation Methods for Nonlinear Parabolic Equations with Random Coefficients. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2016 , 4, 475-494	1.8	15

139	The method of distributions for dispersive transport in porous media with uncertain hydraulic properties. <i>Water Resources Research</i> , 2016 , 52, 4700-4712	5.4	30
138	Critical Behavior in Double-Exchange Ferromagnets of Pr _{0.6} Sr _{0.4} MnO ₃ Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
137	Coexistence of short- and long-range ferromagnetic order in nanocrystalline Fe ₂ Mn _{1-x} Al (x=0.0, 0.1 and 0.3) synthesized by high-energy ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 394, 37-43	2.8	1
136	A boundary-layer solution for flow at the soil-root interface. <i>Journal of Mathematical Biology</i> , 2015 , 70, 1645-68	2	9
135	Data-driven models of groundwater salinization in coastal plains. <i>Journal of Hydrology</i> , 2015 , 531, 187-197		6
134	Method of Distributions for Uncertainty Quantification 2015 , 1-22		4
133	Impact of Data Assimilation on Cost-Accuracy Tradeoff in Multifidelity Models. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2015 , 3, 954-968	1.8	9
132	Design of nanoporous materials with optimal sorption capacity. <i>Journal of Applied Physics</i> , 2015 , 117, 244304	2.5	8
131	Linear functional minimization for inverse modeling. <i>Water Resources Research</i> , 2015 , 51, 4516-4531	5.4	7
130	Impact of stochastic fluctuations in the cell free layer on nitric oxide bioavailability. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 131	3.5	1
129	Critical behavior and magnetocaloric effect of Pr _{1-x} CaxMnO ₃ . <i>Journal of Applied Physics</i> , 2015 , 117, 17D122	2.5	2
128	Temperature fields induced by geothermal devices. <i>Energy</i> , 2015 , 93, 1896-1903	7.9	12
127	Analytical models of heat conduction in fractured rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 83-98	3.6	33
126	Non-Newtonian flow of blood in arterioles: consequences for wall shear stress measurements. <i>Microcirculation</i> , 2014 , 21, 628-39	2.9	49
125	Identifying transport behavior of single-molecule trajectories. <i>Biophysical Journal</i> , 2014 , 107, 2345-51	2.9	5
124	Hematocrit dispersion in asymmetrically bifurcating vascular networks. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1576-86	5.2	16
123	Replacing the Transfusion of 1-2 Units of Blood with Plasma Expanders that Increase Oxygen Delivery Capacity: Evidence from Experimental Studies. <i>Journal of Functional Biomaterials</i> , 2014 , 5, 232-45	4.8	4
122	Vegetation pattern formation due to interactions between water availability and toxicity in plant-soil feedback. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 2866-83	2.1	33

121	Information theoretic approach to complex biological network reconstruction: application to cytokine release in RAW 264.7 macrophages. <i>BMC Systems Biology</i> , 2014 , 8, 77	3.5	8
120	Cumulative distribution function solutions of advection-reaction equations with uncertain parameters. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140189	2.4	19
119	Noise propagation in hybrid models of nonlinear systems: The Ginzburg-Landau equation. <i>Journal of Computational Physics</i> , 2014 , 262, 313-324	4.1	9
118	Stochastic smoothed profile method for modeling random roughness in flow problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 263, 99-112	5.7	11
117	Assessment and management of risk in subsurface hydrology: A review and perspective. <i>Advances in Water Resources</i> , 2013 , 51, 247-260	4.7	118
116	Probability density function method for Langevin equations with colored noise. <i>Physical Review Letters</i> , 2013 , 110, 140602	7.4	22
115	A New Physiological Boundary Condition for Hemodynamics. <i>SIAM Journal on Applied Mathematics</i> , 2013 , 73, 1203-1223	1.8	15
114	COMPUTING GREEN'S FUNCTIONS FOR FLOW IN HETEROGENEOUS COMPOSITE MEDIA 2013 , 3, 39-46		3
113	Stochastic Forecasting of Algae Blooms in Lakes. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013 , 99-108	0.2	
112	Anomalous diffusion of single particles in cytoplasm. <i>Biophysical Journal</i> , 2013 , 104, 1652-60	2.9	82
111	Particle-tracking simulations of anomalous transport in hierarchically fractured rocks. <i>Computers and Geosciences</i> , 2013 , 50, 52-58	4.5	28
110	Exact PDF equations and closure approximations for advective-reactive transport. <i>Journal of Computational Physics</i> , 2013 , 243, 323-343	4.1	54
109	Hybrid modeling of heterogeneous geochemical reactions in fractured porous media. <i>Water Resources Research</i> , 2013 , 49, 7945-7956	5.4	13
108	CDF Solutions of Buckley-Leverett Equation with Uncertain Parameters. <i>Multiscale Modeling and Simulation</i> , 2013 , 11, 118-133	1.8	21
107	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. <i>Engineering Geology</i> , 2012 , 125, 35-44	6	43
106	Impact of endothelium roughness on blood flow. <i>Journal of Theoretical Biology</i> , 2012 , 300, 152-60	2.3	16
105	Autoregulation and mechanotransduction control the arteriolar response to small changes in hematocrit. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H1096-106	5.2	26
104	Stochastic operator-splitting method for reaction-diffusion systems. <i>Journal of Chemical Physics</i> , 2012 , 137, 184102	3.9	12

103	Lagrangian models of reactive transport in heterogeneous porous media with uncertain properties. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 1154-1174	2.4	20
102	A Bayesian approach to integrate temporal data into probabilistic risk analysis of monitored NAPL remediation. <i>Advances in Water Resources</i> , 2012 , 36, 108-120	4.7	17
101	Probabilistic analysis of maintenance and operation of artificial recharge ponds. <i>Advances in Water Resources</i> , 2012 , 36, 23-35	4.7	21
100	Introduction to the special issue on uncertainty quantification and risk assessment. <i>Advances in Water Resources</i> , 2012 , 36, 1-2	4.7	8
99	Semi-analytical solutions for solute transport and exchange in fractured porous media. <i>Water Resources Research</i> , 2012 , 48,	5.4	66
98	Uncertainty quantification in kinematic-wave models. <i>Journal of Computational Physics</i> , 2012 , 231, 7868-7880	4.8	22
97	PEG-albumin supraplasma expansion is due to increased vessel wall shear stress induced by blood viscosity shear thinning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2489-97	5.2	21
96	Comparison of statistical and optimisation-based methods for data-driven network reconstruction of biochemical systems. <i>IET Systems Biology</i> , 2012 , 6, 155-63	1.4	8
95	Hybrid models of reactive transport in porous and fractured media. <i>Advances in Water Resources</i> , 2011 , 34, 1140-1150	4.7	94
94	PROBABILISTIC PREDICTIONS OF INFILTRATION INTO HETEROGENEOUS MEDIA WITH UNCERTAIN HYDRAULIC PARAMETERS 2011 , 1, 35-47		9
93	Applicability regimes for macroscopic models of reactive transport in porous media. <i>Journal of Contaminant Hydrology</i> , 2011 , 120-121, 18-26	3.9	132
92	PDF equations for advective-reactive transport in heterogeneous porous media with uncertain properties. <i>Journal of Contaminant Hydrology</i> , 2011 , 120-121, 129-40	3.9	67
91	Mean arterial pressure nonlinearity in an elastic circulatory system subjected to different hematocrits. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011 , 10, 591-8	3.8	4
90	Reduced complexity models for probabilistic forecasting of infiltration rates. <i>Advances in Water Resources</i> , 2011 , 34, 375-382	4.7	14
89	Integration of cardiovascular regulation by the blood/endothelium cell-free layer. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011 , 3, 458-70	6.6	15
88	The effect of small changes in hematocrit on nitric oxide transport in arterioles. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 175-85	8.4	35
87	Functional optical imaging at the microscopic level. <i>Journal of Biomedical Optics</i> , 2010 , 15, 011102	3.5	4
86	Stochastic hybrid modeling of intracellular calcium dynamics. <i>Journal of Chemical Physics</i> , 2010 , 133, 165101	3.9	16

85	Probability density functions for passive scalars dispersed in random velocity fields. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	38
84	Predicting vertical connectivity within an aquifer system. <i>Bayesian Analysis</i> , 2010 , 5,	2.3	8
83	Elastic response of carbon nanotube forests to aerodynamic stresses. <i>Physical Review Letters</i> , 2010 , 105, 144504	7.4	36
82	Uncertainty quantification via random domain decomposition and probabilistic collocation on sparse grids. <i>Journal of Computational Physics</i> , 2010 , 229, 6995-7012	4.1	44
81	Probability density functions for advective-reactive transport in radial flow. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 985-992	3.5	20
80	On the use of analytical solutions to design pumping tests in leaky aquifers connected to a stream. <i>Journal of Hydrology</i> , 2010 , 381, 341-351	6	6
79	Random walk particle tracking simulations of non-Fickian transport in heterogeneous media. <i>Journal of Computational Physics</i> , 2010 , 229, 4304-4314	4.1	40
78	Closure to Stream Depletion by Groundwater Pumping in Leaky Aquifers by Vitaly A. Zlotnik and Daniel M. Tartakovsky. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009 , 14, 889-891	1.8	1
77	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. <i>Journal of Hydrology</i> , 2009 , 375, 554-565	6	8
76	Delineation of geological facies from poorly differentiated data. <i>Advances in Water Resources</i> , 2009 , 32, 225-230	4.7	5
75	Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media. <i>Transport in Porous Media</i> , 2009 , 79, 15-27	3.1	67
74	Response to Comments on Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media by Dentz and Tartakovsky (2008) by Lu et al.. <i>Transport in Porous Media</i> , 2009 , 79, 39-41	3.1	9
73	Perspective on theories of non-Fickian transport in heterogeneous media. <i>Advances in Water Resources</i> , 2009 , 32, 670-680	4.7	280
72	On breakdown of macroscopic models of mixing-controlled heterogeneous reactions in porous media. <i>Advances in Water Resources</i> , 2009 , 32, 1664-1673	4.7	119
71	Effects of spatio-temporal variability of precipitation on contaminant migration in the vadose zone. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	7
70	Probability density functions for advective-reactive transport with uncertain reaction rates. <i>Water Resources Research</i> , 2009 , 45,	5.4	58
69	Probabilistic risk analysis of groundwater remediation strategies. <i>Water Resources Research</i> , 2009 , 45,	5.4	66
68	A reduced complexity model for probabilistic risk assessment of groundwater contamination. <i>Water Resources Research</i> , 2008 , 44,	5.4	20

67	Stochastic langevin model for flow and transport in porous media. <i>Physical Review Letters</i> , 2008 , 101, 044502	7.4	75
66	Hybrid Simulations of Reaction-Diffusion Systems in Porous Media. <i>SIAM Journal of Scientific Computing</i> , 2008 , 30, 2799-2816	2.6	65
65	Stream Depletion by Groundwater Pumping in Leaky Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 43-50	1.8	38
64	Uncertain Future of Hydrogeology. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 37-39	1.8	29
63	Self-consistent four-point closure for transport in steady random flows. <i>Physical Review E</i> , 2008 , 77, 066307	2.1	21
62	Nonlinear localization of light in disordered optical fiber arrays. <i>Physical Review A</i> , 2008 , 77,	2.6	4
61	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. <i>Journal of Physics: Conference Series</i> , 2008 , 125, 012054	0.3	1
60	Hydrogeophysical Approach for Identification of Layered Structures of the Vadose Zone from Electrical Resistivity Data. <i>Vadose Zone Journal</i> , 2008 , 7, 1253-1260	2.7	3
59	Probabilistic risk analysis of building contamination. <i>Indoor Air</i> , 2008 , 18, 351-64	5.4	4
58	Machine Learning Methods for Inverse Modeling 2008 , 117-125		1
57	Ergodicity of pumping tests. <i>Water Resources Research</i> , 2007 , 43,	5.4	11
56	Probabilistic risk analysis in subsurface hydrology. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	75
55	Type curve interpretation of late-time pumping test data in randomly heterogeneous aquifers. <i>Water Resources Research</i> , 2007 , 43,	5.4	49
54	Nearest-neighbor classification for facies delineation. <i>Water Resources Research</i> , 2007 , 43,	5.4	10
53	Quantification of uncertainty in geochemical reactions. <i>Water Resources Research</i> , 2007 , 43,	5.4	24
52	Analytical models of contaminant transport in coastal aquifers. <i>Advances in Water Resources</i> , 2007 , 30, 1962-1972	4.7	32
51	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. <i>Journal of Physics: Conference Series</i> , 2007 , 78, 012063	0.3	10
50	Stochastic analysis of transport in tubes with rough walls. <i>Journal of Computational Physics</i> , 2006 , 217, 248-259	4.1	68

49	Numerical Methods for Differential Equations in Random Domains. <i>SIAM Journal of Scientific Computing</i> , 2006 , 28, 1167-1185	2.6	102
48	Delay mechanisms of non-Fickian transport in heterogeneous media. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	24
47	Variable-density flow in porous media. <i>Journal of Fluid Mechanics</i> , 2006 , 561, 209	3.7	53
46	Asymptotic analysis of cross-hole hydraulic tests in fractured granite. <i>Ground Water</i> , 2006 , 44, 555-63	2.4	24
45	Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. <i>Journal of Computational Physics</i> , 2006 , 217, 166-175	4.1	28
44	Subsurface characterization with support vector machines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 47-57	8.1	50
43	Noise in algorithm refinement methods. <i>Computing in Science and Engineering</i> , 2005 , 7, 32-38	1.5	12
42	Asymptotic analysis of three-dimensional pressure interference tests: A point source solution. <i>Water Resources Research</i> , 2005 , 41,	5.4	13
41	Algorithm refinement for stochastic partial differential equations: II. Correlated systems. <i>Journal of Computational Physics</i> , 2005 , 207, 769-787	4.1	23
40	Interface dynamics in randomly heterogeneous porous media. <i>Advances in Water Resources</i> , 2005 , 28, 393-403	4.7	12
39	Asymptotic analysis of cross-hole pneumatic injection tests in unsaturated fractured tuff. <i>Advances in Water Resources</i> , 2005 , 28, 1217-1229	4.7	15
38	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. <i>Vadose Zone Journal</i> , 2004 , 3, 154-163	2.7	15
37	Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media. <i>Water Resources Research</i> , 2004 , 40,	5.4	39
36	Delineation of geologic facies with statistical learning theory. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	16
35	Probabilistic reconstruction of geologic facies. <i>Journal of Hydrology</i> , 2004 , 294, 57-67	6	36
34	Effective Properties of Random Composites. <i>SIAM Journal of Scientific Computing</i> , 2004 , 26, 625-635	2.6	6
33	A Two-Scale Nonperturbative Approach to Uncertainty Analysis of Diffusion in Random Composites. <i>Multiscale Modeling and Simulation</i> , 2004 , 2, 662-674	1.8	22
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