Daniel M Tartakovsky

List of Publications by Year
in descending order

217 papers	5,629 citations	71102 41 h-index	110387 64 g-index
228 all docs	228 docs citations	228 times ranked	3600 citing authors

#	Article	IF	Citations
1	Autonomous learning of nonlocal stochastic neuron dynamics. Cognitive Neurodynamics, 2022, 16, 683-705.	4.0	5
2	From Fluid Flow to Coupled Processes in Fractured Rock: Recent Advances and New Frontiers. Reviews of Geophysics, 2022, 60, e2021RG000744.	23.0	61
3	Polynomial Chaos Expansions for Stiff Random ODEs. SIAM Journal of Scientific Computing, 2022, 44, A1021-A1046.	2.8	2
4	Stability-Guided Strategies to Mitigate Dendritic Growth in Lithium-Metal Batteries. Journal of the Electrochemical Society, 2022, 169, 060536.	2.9	4
5	Information geometry of physics-informed statistical manifolds and its use in data assimilation. Journal of Computational Physics, 2022, 467, 111438.	3.8	7
6	Temperature estimation from current and voltage measurements in lithium-ion battery systems. Journal of Energy Storage, 2021, 34, 102133.	8.1	16
7	Markov chain Monte Carlo with neural network surrogates: application to contaminant source identification. Stochastic Environmental Research and Risk Assessment, 2021, 35, 639-651.	4.0	30
8	Dynamics of Data-driven Ambiguity Sets for Hyperbolic Conservation Laws with Uncertain Inputs. SIAM Journal of Scientific Computing, 2021, 43, A2102-A2129.	2.8	2
9	Advances in uncertainty quantification for water resources applications. Stochastic Environmental Research and Risk Assessment, 2021, 35, 955-957.	4.0	5
10	Lagrangian models of particle-laden flows with stochastic forcing: Monte Carlo, moment equations, and method of distributions analyses. Physics of Fluids, 2021, 33, .	4.0	7
11	Hybrid models of chemotaxis with application to leukocyte migration. Journal of Mathematical Biology, 2021, 82, 23.	1.9	3
12	GINNs: Graph-Informed Neural Networks for multiscale physics. Journal of Computational Physics, 2021, 433, 110192.	3.8	18
13	Probabilistic Reconstruction of Hydrofacies With Support Vector Machines. Water Resources Research, 2021, 57, e2021WR029622.	4.2	1
14	Exponential time differencing for problems without natural stiffness separation. Computational Geosciences, 2021, 25, 1667-1679.	2.4	0
15	Data-driven discovery of coarse-grained equations. Journal of Computational Physics, 2021, 434, 110219.	3.8	18
16	Mutual information for explainable deep learning of multiscale systems. Journal of Computational Physics, 2021, 444, 110551.	3.8	7
17	Extended dynamic mode decomposition for inhomogeneous problems. Journal of Computational Physics, 2021, 444, 110550.	3.8	4
18	METHOD OF DISTRIBUTIONS FOR SYSTEMS WITH STOCHASTIC FORCING. , 2021, 11, 83-104.		2

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19	A model of anemic tissue perfusion after blood transfusion shows critical role of endothelial response to shear stress stimuli. Journal of Applied Physiology, 2021, 131, 1815-1823.	2.5	4
20	Consensus Equilibrium for Subsurface Delineation. Water Resources Research, 2021, 57, e2021WR030151.	4.2	0
21	Estimation of Evapotranspiration Rates and Root Water Uptake Profiles From Soil Moisture Sensor Array Data. Water Resources Research, 2021, 57, e2021WR030747.	4.2	4
22	Thermal Experiments for Fractured Rock Characterization: Theoretical Analysis and Inverse Modeling. Water Resources Research, 2021, 57, e2021WR030608.	4.2	13
23	Quantification of Predictive Uncertainty in Models of FtsZ ring assembly in Escherichia coli. Journal of Theoretical Biology, 2020, 484, 110006.	1.7	0
24	Modified immersed boundary method for flows over randomly rough surfaces. Journal of Computational Physics, 2020, 406, 109195.	3.8	3
25	Tensor methods for the Boltzmann-BGK equation. Journal of Computational Physics, 2020, 421, 109744.	3.8	12
26	Estimation of distributions via multilevel Monte Carlo with stratified sampling. Journal of Computational Physics, 2020, 419, 109572.	3.8	20
27	Accelerated Multilevel Monte Carlo With Kernelâ€Based Smoothing and Latinized Stratification. Water Resources Research, 2020, 56, e2019WR026984.	4.2	11
28	Resource-Constrained Model Selection for Uncertainty Propagation and Data Assimilation. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1118-1138.	2.0	2
29	Solute dispersion in bifurcating networks. Journal of Fluid Mechanics, 2020, 901, .	3.4	4
30	Reply to Comment by Wang, Che, and Ghidaoui on â€œBayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mainsâ€• Water Resources Research, 2020, 56, e2020WR028605.	4.2	0
31	Method of Distributions for Quantification of Geologic Uncertainty in Flow Simulations. Water Resources Research, 2020, 56, e2020WR027643.	4.2	10
32	Prediction Accuracy of Dynamic Mode Decomposition. SIAM Journal of Scientific Computing, 2020, 42, A1639-A1662.	2.8	31
33	Structural and Magnetic Properties Control of Pr0.7Ba0.3MnO3 with Sr-Doping. Physics of the Solid State, 2020, 62, 845-850.	0.6	3
34	Data-Informed Method of Distributions for Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2020, 42, A559-A583.	2.8	13
35	Bayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mains. Water Resources Research, 2020, 56, e2019WR025879.	4.2	22
36	Lagrangian dynamic mode decomposition for construction of reduced-order models of advection-dominated phenomena. Journal of Computational Physics, 2020, 407, 109229.	3.8	31

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37	Analytical model for gravity segregation of horizontal multiphase flow in porous media. Physics of Fluids, 2020, 32, .	4.0	15
38	Learning on dynamic statistical manifolds. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200213.	2.1	12
39	Causality and Bayesian Network PDEs for multiscale representations of porous media. Journal of Computational Physics, 2019, 394, 658-678.	3.8	13
40	Distributionâ€Based Global Sensitivity Analysis in Hydrology. Water Resources Research, 2019, 55, 8708-8720.	4.2	24
41	A Mechanistic Analysis of Possible Blood Transfusion Failure to Increase Circulatory Oxygen Delivery in Anemic Patients. Annals of Biomedical Engineering, 2019, 47, 1094-1105.	2.5	9
42	Microstructural heterogeneity drives reaction initiation in granular materials. Applied Physics Letters, 2019, 114, .	3.3	5
43	Diffusion in Porous Media: Phenomena and Mechanisms. Transport in Porous Media, 2019, 130, 105-127.	2.6	72
44	Stochastic self-tuning hybrid algorithm for reaction-diffusion systems. Journal of Chemical Physics, 2019, 151, 244117.	3.0	4
45	Probabilistic Forecast of Singleâ€Phase Flow in Porous Media With Uncertain Properties. Water Resources Research, 2019, 55, 8631-8645.	4.2	8
46	Efficient gHMC Reconstruction of Contaminant Release History. Frontiers in Environmental Science, 2019, 7, .	3.3	8
47	Micromagnetic simulation of fast GHz gyromotion of magnetic vortex core in Permalloy disk with antidot. AIP Conference Proceedings, 2019, , .	0.4	0
48	Global sensitivity analysis of multiscale properties of porous materials. Journal of Applied Physics, 2018, 123, 075103.	2.5	9
49	Efficient models of polymerization applied to FtsZ ring assembly in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4933-4938.	7.1	5
50	Nonlocal PDF methods for Langevin equations with colored noise. Journal of Computational Physics, 2018, 367, 87-101.	3.8	7
51	A Hybrid Multiscale Model of Miscible Reactive Fronts. Water Resources Research, 2018, 54, 61-71.	4.2	6
52	Hydrodynamic dispersion in a tube with diffusive losses through its walls. Journal of Fluid Mechanics, 2018, 837, 546-561.	3.4	6
53	The frequency domain approach to analyse field-scale miscible flow transport experiments in the soils. Biosystems Engineering, 2018, 168, 96-104.	4.3	2
54	Method of Distributions for Water Hammer Equations With Uncertain Parameters. Water Resources Research, 2018, 54, 9398-9411.	4.2	21

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55	Parallel tensor methods for high-dimensional linear PDEs. Journal of Computational Physics, 2018, 375, 519-539.	3.8	16
56	Interpretation of Heatâ€Pulse Tracer Tests for Characterization of Threeâ€Dimensional Velocity Fields in Hyporheic Zone. Water Resources Research, 2018, 54, 4028-4039.	4.2	7
57	Informationâ€Theoretic Approach to Bidirectional Scaling. Water Resources Research, 2018, 54, 4916-4928.	4.2	8
58	Probabilistic Forecasting of Nitrogen Dynamics in Hyporheic Zone. Water Resources Research, 2018, 54, 4417-4431.	4.2	7
59	On the use of reverse Brownian motion to accelerate hybrid simulations. Journal of Computational Physics, 2017, 334, 68-80.	3.8	3
60	Effective Ion Diffusion in Charged Nanoporous Materials. Journal of the Electrochemical Society, 2017, 164, E53-E61.	2.9	25
61	Posttransfusion Increase of Hematocrit per se Does Not Improve Circulatory Oxygen Delivery due to Increased Blood Viscosity. Anesthesia and Analgesia, 2017, 124, 1547-1554.	2.2	28
62	Optimal design of nanoporous materials for electrochemical devices. Applied Physics Letters, 2017, 110, 143103.	3.3	4
63	A tightly-coupled domain-decomposition approach for highly nonlinear stochastic multiphysics systems. Journal of Computational Physics, 2017, 330, 884-901.	3.8	4
64	An analytical model for carrier-facilitated solute transport in weakly heterogeneous porous media. Applied Mathematical Modelling, 2017, 44, 261-273.	4.2	3
65	Doubly Penalized LASSO for Reconstruction of Biological Networks. Proceedings of the IEEE, 2017, 105, 319-329.	21.3	0
66	Effects of Hydraulic Soil Properties on Vegetation Pattern Formation in Sloping Landscapes. Bulletin of Mathematical Biology, 2017, 79, 2773-2784.	1.9	6
67	Impact of parametric uncertainty on estimation of the energy deposition into an irradiated brain tumor. Journal of Computational Physics, 2017, 348, 139-150.	3.8	3
68	Estimation of Intrinsic Length Scales of Flow in Unsaturated Porous Media. Water Resources Research, 2017, 53, 9980-9987.	4.2	8
69	Impact of Hydrogeological Uncertainty on Estimation of Environmental Risks Posed by Hydrocarbon Transportation Networks. Water Resources Research, 2017, 53, 8686-8697.	4.2	21
70	Method of Distributions for Uncertainty Quantification. , 2017, , 763-783.		5
71	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. GigaScience, 2016, 5, 14.	6.4	15
72	Analytical models of axisymmetric reactionâ€“diffusion phenomena in composite media. International Journal of Heat and Mass Transfer, 2016, 99, 425-431.	4.8	6

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73	Stochastic Collocation Methods for Nonlinear Parabolic Equations with Random Coefficients. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 475-494.	2.0	19
74	The method of distributions for dispersive transport in porous media with uncertain hydraulic properties. Water Resources Research, 2016, 52, 4700-4712.	4.2	38
75	Particle Methods for Heat Transfer in Fractured Media. Transport in Porous Media, 2016, 115, 311-326.	2.6	20
76	Noise-driven interfaces and their macroscopic representation. Physical Review E, 2016, 94, 052802.	2.1	2
77	Efficient Multiscale Models of Polymer Assembly. Biophysical Journal, 2016, 111, 185-196.	0.5	6
78	Shear-Induced Nitric Oxide Production by Endothelial Cells. Biophysical Journal, 2016, 111, 208-221.	0.5	85
79	Conservative tightly-coupled simulations of stochastic multiscale systems. Journal of Computational Physics, 2016, 313, 400-414.	3.8	4
80	Data-driven models of groundwater salinization in coastal plains. Journal of Hydrology, 2015, 531, 187-197.	5.4	7
81	Method of Distributions for Uncertainty Quantification. , 2015, , 1-22.		5
82	Impact of Data Assimilation on Cost-Accuracy Tradeoff in Multifidelity Models. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 954-968.	2.0	12
83	Design of nanoporous materials with optimal sorption capacity. Journal of Applied Physics, 2015, 117, 244304.	2.5	9
84	Linear functional minimization for inverse modeling. Water Resources Research, 2015, 51, 4516-4531.	4.2	11
85	Impact of stochastic fluctuations in the cell free layer on nitric oxide bioavailability. Frontiers in Computational Neuroscience, 2015, 9, 131.	2.1	2
86	Critical behavior and magnetocaloric effect of Pr1â^'xCaxMnO3. Journal of Applied Physics, 2015, 117, 17D122.	2.5	5
87	Temperature fields induced by geothermal devices. Energy, 2015, 93, 1896-1903.	8.8	16
88	Critical Behavior in Double-Exchange Ferromagnets of Pr_{0.6}Sr_{0.4}MnO₃ Nanoparticles. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
89	Coexistence of short- and long-range ferromagnetic order in nanocrystalline Fe2Mn1â^'Cu Al (x=0.0, 0.1) Tj ETQq1 1 0.784314 rgBT /Ov 394, 37-43.	2.3	3
90	A boundary-layer solution for flow at the soil-root interface. Journal of Mathematical Biology, 2015, 70, 1645-1668.	1.9	10

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91	Replacing the Transfusion of 1â€“2 Units of Blood with Plasma Expanders that Increase Oxygen Delivery Capacity: Evidence from Experimental Studies. Journal of Functional Biomaterials, 2014, 5, 232-245.	4.4	5
92	Vegetation Pattern Formation Due to Interactions Between Water Availability and Toxicity in Plantâ€“Soil Feedback. Bulletin of Mathematical Biology, 2014, 76, 2866-2883.	1.9	51
93	Information theoretic approach to complex biological network reconstruction: application to cytokine release in RAW 264.7 macrophages. BMC Systems Biology, 2014, 8, 77.	3.0	11
94	Cumulative distribution function solutions of advectionâ€“reaction equations with uncertain parameters. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140189.	2.1	25
95	Noise propagation in hybrid models of nonlinear systems: The Ginzburgâ€“Landau equation. Journal of Computational Physics, 2014, 262, 313-324.	3.8	10
96	Analytical models of heat conduction in fractured rocks. Journal of Geophysical Research: Solid Earth, 2014, 119, 83-98.	3.4	43
97	Nonâ€Newtonian Flow of Blood in Arterioles: Consequences for Wall Shear Stress Measurements. Microcirculation, 2014, 21, 628-639.	1.8	70
98	Identifying Transport Behavior of Single-Molecule Trajectories. Biophysical Journal, 2014, 107, 2345-2351.	0.5	7
99	Hematocrit dispersion in asymmetrically bifurcating vascular networks. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1576-H1586.	3.2	21
100	Stochastic smoothed profile method for modeling random roughness in flow problems. Computer Methods in Applied Mechanics and Engineering, 2013, 263, 99-112.	6.6	11
101	Assessment and management of risk in subsurface hydrology: A review and perspective. Advances in Water Resources, 2013, 51, 247-260.	3.8	139
102	Probability Density Function Method for Langevin Equations with Colored Noise. Physical Review Letters, 2013, 110, 140602.	7.8	23
103	A New Physiological Boundary Condition for Hemodynamics. SIAM Journal on Applied Mathematics, 2013, 73, 1203-1223.	1.8	17
104	Stochastic Forecasting of Algae Blooms in Lakes. Springer Proceedings in Mathematics and Statistics, 2013, , 99-108.	0.2	0
105	Anomalous Diffusion of Single Particles in Cytoplasm. Biophysical Journal, 2013, 104, 1652-1660.	0.5	111
106	Particle-tracking simulations of anomalous transport in hierarchically fractured rocks. Computers and Geosciences, 2013, 50, 52-58.	4.2	38
107	Exact PDF equations and closure approximations for advective-reactive transport. Journal of Computational Physics, 2013, 243, 323-343.	3.8	58
108	Hybrid modeling of heterogeneous geochemical reactions in fractured porous media. Water Resources Research, 2013, 49, 7945-7956.	4.2	17

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109	CDF Solutions of Buckley–Leverett Equation with Uncertain Parameters. Multiscale Modeling and Simulation, 2013, 11, 118-133.	1.6	23
110	COMPUTING GREEN'S FUNCTIONS FOR FLOW IN HETEROGENEOUS COMPOSITE MEDIA. , 2013, 3, 39-46.		3
111	PEG-albumin supraplasma expansion is due to increased vessel wall shear stress induced by blood viscosity shear thinning. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2489-H2497.	3.2	26
112	Comparison of statistical and optimisation-based methods for data-driven network reconstruction of biochemical systems. IET Systems Biology, 2012, 6, 155-163.	1.5	8
113	Autoregulation and mechanotransduction control the arteriolar response to small changes in hematocrit. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H1096-H1106.	3.2	32
114	Stochastic operator-splitting method for reaction-diffusion systems. Journal of Chemical Physics, 2012, 137, 184102.	3.0	13
115	Lagrangian models of reactive transport in heterogeneous porous media with uncertain properties. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1154-1174.	2.1	22
116	A Bayesian approach to integrate temporal data into probabilistic risk analysis of monitored NAPL remediation. Advances in Water Resources, 2012, 36, 108-120.	3.8	18
117	Probabilistic analysis of maintenance and operation of artificial recharge ponds. Advances in Water Resources, 2012, 36, 23-35.	3.8	22
118	Introduction to the special issue on uncertainty quantification and risk assessment. Advances in Water Resources, 2012, 36, 1-2.	3.8	9
119	Semiâ€analytical solutions for solute transport and exchange in fractured porous media. Water Resources Research, 2012, 48, .	4.2	88
120	Uncertainty quantification in kinematic-wave models. Journal of Computational Physics, 2012, 231, 7868-7880.	3.8	22
121	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. Engineering Geology, 2012, 125, 35-44.	6.3	49
122	Impact of endothelium roughness on blood flow. Journal of Theoretical Biology, 2012, 300, 152-160.	1.7	18
123	Hybrid models of reactive transport in porous and fractured media. Advances in Water Resources, 2011, 34, 1140-1150.	3.8	119
124	PROBABILISTIC PREDICTIONS OF INFILTRATION INTO HETEROGENEOUS MEDIA WITH UNCERTAIN HYDRAULIC PARAMETERS. , 2011, 1, 35-47.		9
125	Applicability regimes for macroscopic models of reactive transport in porous media. Journal of Contaminant Hydrology, 2011, 120-121, 18-26.	3.3	163
126	PDF equations for advectiveâ€“reactive transport in heterogeneous porous media with uncertain properties. Journal of Contaminant Hydrology, 2011, 120-121, 129-140.	3.3	80

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127	Mean arterial pressure nonlinearity in an elastic circulatory system subjected to different hematocrits. Biomechanics and Modeling in Mechanobiology, 2011, 10, 591-598.	2.8	4
128	Reduced complexity models for probabilistic forecasting of infiltration rates. Advances in Water Resources, 2011, 34, 375-382.	3.8	16
129	Integration of cardiovascular regulation by the blood/endothelium cellâ€free layer. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 458-470.	6.6	18
130	The Effect of Small Changes in Hematocrit on Nitric Oxide Transport in Arterioles. Antioxidants and Redox Signaling, 2011, 14, 175-185.	5.4	42
131	Predicting vertical connectivity within an aquifer system. Bayesian Analysis, 2010, 5, .	3.0	8
132	Elastic Response of Carbon Nanotube Forests to Aerodynamic Stresses. Physical Review Letters, 2010, 105, 144504.	7.8	37
133	Uncertainty quantification via random domain decomposition and probabilistic collocation on sparse grids. Journal of Computational Physics, 2010, 229, 6995-7012.	3.8	48
134	Uncertainty quantification in modeling flow and transport in porous media. Stochastic Environmental Research and Risk Assessment, 2010, 24, 953-954.	4.0	1
135	Probability density functions for advectiveâ€“reactive transport in radial flow. Stochastic Environmental Research and Risk Assessment, 2010, 24, 985-992.	4.0	21
136	On the use of analytical solutions to design pumping tests in leaky aquifers connected to a stream. Journal of Hydrology, 2010, 381, 341-351.	5.4	8
137	Random walk particle tracking simulations of non-Fickian transport in heterogeneous media. Journal of Computational Physics, 2010, 229, 4304-4314.	3.8	41
138	Functional optical imaging at the microscopic level. Journal of Biomedical Optics, 2010, 15, 011102.	2.6	4
139	Stochastic hybrid modeling of intracellular calcium dynamics. Journal of Chemical Physics, 2010, 133, 165101.	3.0	16
140	Probability density functions for passive scalars dispersed in random velocity fields. Geophysical Research Letters, 2010, 37, .	4.0	43
141	Closure to â€œStream Depletion by Groundwater Pumping in Leaky Aquifersâ€•by Vitaly A. Zlotnik and Daniel M. Tartakovsky. Journal of Hydrologic Engineering - ASCE, 2009, 14, 889-891.	1.9	1
142	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. Journal of Hydrology, 2009, 375, 554-565.	5.4	9
143	Delineation of geological facies from poorly differentiated data. Advances in Water Resources, 2009, 32, 225-230.	3.8	5
144	Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media. Transport in Porous Media, 2009, 79, 15-27.	2.6	73

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145	Response to â€œComments on Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media by Dentz and Tartakovsky (2008)â€•by Lu etÂal.. Transport in Porous Media, 2009, 79, 39-41.	2.6	9
146	Perspective on theories of non-Fickian transport in heterogeneous media. Advances in Water Resources, 2009, 32, 670-680.	3.8	329
147	On breakdown of macroscopic models of mixing-controlled heterogeneous reactions in porous media. Advances in Water Resources, 2009, 32, 1664-1673.	3.8	133
148	Effects of spatioâ€temporal variability of precipitation on contaminant migration in the vadose zone. Geophysical Research Letters, 2009, 36, .	4.0	10
149	Probability density functions for advectiveâ€reactive transport with uncertain reaction rates. Water Resources Research, 2009, 45, .	4.2	59
150	Probabilistic risk analysis of groundwater remediation strategies. Water Resources Research, 2009, 45, .	4.2	72
151	Probabilistic risk analysis of building contamination. Indoor Air, 2008, 18, 351-364.	4.3	4
152	A reduced complexity model for probabilistic risk assessment of groundwater contamination. Water Resources Research, 2008, 44, .	4.2	21
153	Stochastic Langevin Model for Flow and Transport in Porous Media. Physical Review Letters, 2008, 101, 044502.	7.8	81
154	Hybrid Simulations of Reaction-Diffusion Systems in Porous Media. SIAM Journal of Scientific Computing, 2008, 30, 2799-2816.	2.8	74
155	Stream Depletion by Groundwater Pumping in Leaky Aquifers. Journal of Hydrologic Engineering - ASCE, 2008, 13, 43-50.	1.9	46
156	Uncertain Future of Hydrogeology. Journal of Hydrologic Engineering - ASCE, 2008, 13, 37-39.	1.9	31
157	Self-consistent four-point closure for transport in steady random flows. Physical Review E, 2008, 77, 066307.	2.1	23
158	Nonlinear localization of light in disordered optical fiber arrays. Physical Review A, 2008, 77, .	2.5	7
159	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. Journal of Physics: Conference Series, 2008, 125, 012054.	0.4	1
160	Hydrogeophysical Approach for Identification of Layered Structures of the Vadose Zone from Electrical Resistivity Data. Vadose Zone Journal, 2008, 7, 1253-1260.	2.2	4
161	Machine Learning Methods for Inverse Modeling. , 2008, , 117-125.		1
162	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. Journal of Physics: Conference Series, 2007, 78, 012063.	0.4	13

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163	Ergodicity of pumping tests. Water Resources Research, 2007, 43, .	4.2	14
164	Probabilistic risk analysis in subsurface hydrology. Geophysical Research Letters, 2007, 34, .	4.0	83
165	Type curve interpretation of lateâ€time pumping test data in randomly heterogeneous aquifers. Water Resources Research, 2007, 43, .	4.2	56
166	Nearestâ€neighbor classification for facies delineation. Water Resources Research, 2007, 43, .	4.2	11
167	Quantification of uncertainty in geochemical reactions. Water Resources Research, 2007, 43, .	4.2	30
168	Analytical models of contaminant transport in coastal aquifers. Advances in Water Resources, 2007, 30, 1962-1972.	3.8	37
169	Delay mechanisms of non-Fickian transport in heterogeneous media. Geophysical Research Letters, 2006, 33, .	4.0	28
170	Variable-density flow in porous media. Journal of Fluid Mechanics, 2006, 561, 209.	3.4	63
171	Asymptotic Analysis of Cross-Hole Hydraulic Tests in Fractured Granite. Ground Water, 2006, 44, 555-563.	1.3	28
172	Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. Journal of Computational Physics, 2006, 217, 166-175.	3.8	33
173	Subsurface characterization with support vector machines. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 47-57.	6.3	56
174	Stochastic analysis of transport in tubes with rough walls. Journal of Computational Physics, 2006, 217, 248-259.	3.8	75
175	Numerical Methods for Differential Equations in Random Domains. SIAM Journal of Scientific Computing, 2006, 28, 1167-1185.	2.8	120
176	Algorithm refinement for stochastic partial differential equations: II. Correlated systems. Journal of Computational Physics, 2005, 207, 769-787.	3.8	25
177	Interface dynamics in randomly heterogeneous porous media. Advances in Water Resources, 2005, 28, 393-403.	3.8	14
178	Asymptotic analysis of cross-hole pneumatic injection tests in unsaturated fractured tuff. Advances in Water Resources, 2005, 28, 1217-1229.	3.8	16
179	Noise in Algorithm Refinement Methods. Computing in Science and Engineering, 2005, 7, 32-38.	1.2	12
180	Asymptotic analysis of three-dimensional pressure interference tests: A point source solution. Water Resources Research, 2005, 41, .	4.2	13

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181	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154-163.	2.2	16
182	Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media. Water Resources Research, 2004, 40, .	4.2	43
183	Delineation of geologic facies with statistical learning theory. Geophysical Research Letters, 2004, 31, .	4.0	16
184	Probabilistic reconstruction of geologic facies. Journal of Hydrology, 2004, 294, 57-67.	5.4	41
185	Effective Properties of Random Composites. SIAM Journal of Scientific Computing, 2004, 26, 625-635.	2.8	7
186	A Two-Scale Nonperturbative Approach to Uncertainty Analysis of Diffusion in Random Composites. Multiscale Modeling and Simulation, 2004, 2, 662-674.	1.6	24
187	Uncertainty quantification for flow in highly heterogeneous porous media. Developments in Water Science, 2004, , 695-703.	0.1	5
188	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154.	2.2	0
189	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154-163.	2.2	6
190	A Geostatistical Model for Distribution of Facies in Highly Heterogeneous Aquifers. , 2004, , 211-222.		1
191	Moment Differential Equations for Flow in Highly Heterogeneous Porous Media. Surveys in Geophysics, 2003, 24, 81-106.	4.6	83
192	Random domain decomposition for flow in heterogeneous stratified aquifers. Stochastic Environmental Research and Risk Assessment, 2003, 17, 394-407.	4.0	24
193	Stochastic analysis of effective rate constant for heterogeneous reactions. Stochastic Environmental Research and Risk Assessment, 2003, 17, 419-429.	4.0	55
194	Stochastic averaging of nonlinear flows in heterogeneous porous media. Journal of Fluid Mechanics, 2003, 492, 47-62.	3.4	49
195	Unsaturated flow in heterogeneous soils with spatially distributed uncertain hydraulic parameters. Journal of Hydrology, 2003, 275, 182-193.	5.4	38
196	Algorithm Refinement for Stochastic Partial Differential Equations. AIP Conference Proceedings, 2003, , .	0.4	2
197	Numerical solutions of moment equations for flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 13-1-13-8.	4.2	44
198	Conditional moment analysis of steady state unsaturated flow in bounded, randomly heterogeneous soils. Water Resources Research, 2002, 38, 9-1-9-15.	4.2	23

#	Article	IF	Citations
199	Groundwater flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 23-1-23-11.	4.2	83
200	Theoretical interpretation of a pronounced permeability scale effect in unsaturated fractured tuff. Water Resources Research, 2002, 38, 28-1-28-8.	4.2	49
201	Algorithm Refinement for Stochastic Partial Differential Equations. Journal of Computational Physics, 2002, 182, 47-66.	3.8	53
202	Title is missing!. Transport in Porous Media, 2002, 49, 41-58.	2.6	19
203	Unsaturated hydraulic conductivity function based on a soil fragmentation process. Water Resources Research, 2001, 37, 1309-1312.	4.2	36
204	Dynamics of Free Surfaces in Random Porous Media. SIAM Journal on Applied Mathematics, 2001, 61, 1857-1876.	1.8	21
205	Prior mapping for nonlinear flows in random environments. Physical Review E, 2001, 64, 035302.	2.1	7
206	An analytical solution for two-dimensional contaminant transport during groundwater extraction. Journal of Contaminant Hydrology, 2000, 42, 273-283.	3.3	16
207	Mean Flow in composite porous media. Geophysical Research Letters, 2000, 27, 1759-1762.	4.0	61
208	Some aspects of headâ€variance evaluation. Annals of Software Engineering, 1999, 3, 89-92.	0.5	4
209	Conditional stochastic averaging of steady state unsaturated flow by means of Kirchhoff Transformation. Water Resources Research, 1999, 35, 731-745.	4.2	67
210	Extension of â€œTransient flow in bounded randomly heterogeneous domains: 1, Exact conditional moment equations and recursive approximationsâ€. Water Resources Research, 1999, 35, 1921-1925.	4.2	20
211	Anisotropy, lacunarity, and upscaled conductivity and its autocovariance in multiscale random fields with truncated power variograms. Water Resources Research, 1999, 35, 2891-2908.	4.2	58
212	Transient effective hydraulic conductivities under slowly and rapidly varying mean gradients in bounded three-dimensional random media. Water Resources Research, 1998, 34, 21-32.	4.2	60
213	Transient flow in bounded randomly heterogeneous domains: 2. Localization of conditional mean equations and temporal nonlocality effects. Water Resources Research, 1998, 34, 13-20.	4.2	35
214	Transient flow in bounded randomly heterogeneous domains: 1. Exact conditional moment equations and recursive approximations. Water Resources Research, 1998, 34, 1-12.	4.2	98
215	Dynamics of wetting fronts in porous media. Physical Review E, 1998, 58, R5245-R5248.	2.1	15
216	An Analytical Solution for Contaminant Transport in nonuniform Flow. Transport in Porous Media, 1997, 27, 85-97.	2.6	11

#	Article	IF	Citations
217	Effective Representation of Active Material and Carbon Binder in Porous Electrodes. Journal of the Electrochemical Society, 0, , .	2.9	4