## Daniel M Tartakovsky

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1926062/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Perspective on theories of non-Fickian transport in heterogeneous media. Advances in Water Resources, 2009, 32, 670-680.	3.8	329
2	Applicability regimes for macroscopic models of reactive transport in porous media. Journal of Contaminant Hydrology, 2011, 120-121, 18-26.	3.3	163
3	Assessment and management of risk in subsurface hydrology: A review and perspective. Advances in Water Resources, 2013, 51, 247-260.	3.8	139
4	On breakdown of macroscopic models of mixing-controlled heterogeneous reactions in porous media. Advances in Water Resources, 2009, 32, 1664-1673.	3.8	133
5	Numerical Methods for Differential Equations in Random Domains. SIAM Journal of Scientific Computing, 2006, 28, 1167-1185.	2.8	120
6	Hybrid models of reactive transport in porous and fractured media. Advances in Water Resources, 2011, 34, 1140-1150.	3.8	119
7	Anomalous Diffusion of Single Particles in Cytoplasm. Biophysical Journal, 2013, 104, 1652-1660.	0.5	111
8	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
9	Semiâ€analytical solutions for solute transport and exchange in fractured porous media. Water Resources Research, 2012, 48, .	4.2	88
10	Shear-Induced Nitric Oxide Production by Endothelial Cells. Biophysical Journal, 2016, 111, 208-221.	0.5	85
11	Groundwater flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 23-1-23-11.	4.2	83
12	Moment Differential Equations for Flow in Highly Heterogeneous Porous Media. Surveys in Geophysics, 2003, 24, 81-106.	4.6	83
13	Probabilistic risk analysis in subsurface hydrology. Geophysical Research Letters, 2007, 34, .	4.0	83
14	Stochastic Langevin Model for Flow and Transport in Porous Media. Physical Review Letters, 2008, 101, 044502.	7.8	81
15	PDF equations for advective–reactive transport in heterogeneous porous media with uncertain properties. Journal of Contaminant Hydrology, 2011, 120-121, 129-140.	3.3	80
16	Stochastic analysis of transport in tubes with rough walls. Journal of Computational Physics, 2006, 217, 248-259.	3.8	75
17	Hybrid Simulations of Reaction-Diffusion Systems in Porous Media. SIAM Journal of Scientific Computing, 2008, 30, 2799-2816.	2.8	74
18	Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media. Transport in Porous Media, 2009, 79, 15-27.	2.6	73

#	Article	IF	CITATIONS
19	Probabilistic risk analysis of groundwater remediation strategies. Water Resources Research, 2009, 45, .	4.2	72
20	Diffusion in Porous Media: Phenomena and Mechanisms. Transport in Porous Media, 2019, 130, 105-127.	2.6	72
21	Nonâ€Newtonian Flow of Blood in Arterioles: Consequences for Wall Shear Stress Measurements. Microcirculation, 2014, 21, 628-639.	1.8	70
22	Conditional stochastic averaging of steady state unsaturated flow by means of Kirchhoff Transformation. Water Resources Research, 1999, 35, 731-745.	4.2	67
23	Variable-density flow in porous media. Journal of Fluid Mechanics, 2006, 561, 209.	3.4	63
24	Mean Flow in composite porous media. Geophysical Research Letters, 2000, 27, 1759-1762.	4.0	61
25	From Fluid Flow to Coupled Processes in Fractured Rock: Recent Advances and New Frontiers. Reviews of Geophysics, 2022, 60, e2021RG000744.	23.0	61
26	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
27	Probability density functions for advectiveâ€reactive transport with uncertain reaction rates. Water Resources Research, 2009, 45, .	4.2	59
28	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
29	Exact PDF equations and closure approximations for advective-reactive transport. Journal of Computational Physics, 2013, 243, 323-343.	3.8	58
30	Subsurface characterization with support vector machines. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 47-57.	6.3	56
31	Type curve interpretation of lateâ€ŧime pumping test data in randomly heterogeneous aquifers. Water Resources Research, 2007, 43, .	4.2	56
32	Stochastic analysis of effective rate constant for heterogeneous reactions. Stochastic Environmental Research and Risk Assessment, 2003, 17, 419-429.	4.0	55
33	Algorithm Refinement for Stochastic Partial Differential Equations. Journal of Computational Physics, 2002, 182, 47-66.	3.8	53
34	Vegetation Pattern Formation Due to Interactions Between Water Availability and Toxicity in Plant–Soil Feedback. Bulletin of Mathematical Biology, 2014, 76, 2866-2883.	1.9	51
35	Theoretical interpretation of a pronounced permeability scale effect in unsaturated fractured tuff. Water Resources Research, 2002, 38, 28-1-28-8.	4.2	49
36	Stochastic averaging of nonlinear flows in heterogeneous porous media. Journal of Fluid Mechanics, 2003, 492, 47-62.	3.4	49

#	Article	IF	CITATIONS
37	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. Engineering Geology, 2012, 125, 35-44.	6.3	49
38	Uncertainty quantification via random domain decomposition and probabilistic collocation on sparse grids. Journal of Computational Physics, 2010, 229, 6995-7012.	3.8	48
39	Stream Depletion by Groundwater Pumping in Leaky Aquifers. Journal of Hydrologic Engineering - ASCE, 2008, 13, 43-50.	1.9	46
40	Numerical solutions of moment equations for flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 13-1-13-8.	4.2	44
41	Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media. Water Resources Research, 2004, 40, .	4.2	43
42	Probability density functions for passive scalars dispersed in random velocity fields. Geophysical Research Letters, 2010, 37, .	4.0	43
43	Analytical models of heat conduction in fractured rocks. Journal of Geophysical Research: Solid Earth, 2014, 119, 83-98.	3.4	43
44	The Effect of Small Changes in Hematocrit on Nitric Oxide Transport in Arterioles. Antioxidants and Redox Signaling, 2011, 14, 175-185.	5.4	42
45	Probabilistic reconstruction of geologic facies. Journal of Hydrology, 2004, 294, 57-67.	5.4	41
46	Random walk particle tracking simulations of non-Fickian transport in heterogeneous media. Journal of Computational Physics, 2010, 229, 4304-4314.	3.8	41
47	Unsaturated flow in heterogeneous soils with spatially distributed uncertain hydraulic parameters. Journal of Hydrology, 2003, 275, 182-193.	5.4	38
48	Particle-tracking simulations of anomalous transport in hierarchically fractured rocks. Computers and Geosciences, 2013, 50, 52-58.	4.2	38
49	The method of distributions for dispersive transport in porous media with uncertain hydraulic properties. Water Resources Research, 2016, 52, 4700-4712.	4.2	38
50	Analytical models of contaminant transport in coastal aquifers. Advances in Water Resources, 2007, 30, 1962-1972.	3.8	37
51	Elastic Response of Carbon Nanotube Forests to Aerodynamic Stresses. Physical Review Letters, 2010, 105, 144504.	7.8	37
52	Unsaturated hydraulic conductivity function based on a soil fragmentation process. Water Resources Research, 2001, 37, 1309-1312.	4.2	36
53	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
54	Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. Journal of Computational Physics, 2006, 217, 166-175.	3.8	33

#	Article	IF	CITATIONS
55	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
56	Uncertain Future of Hydrogeology. Journal of Hydrologic Engineering - ASCE, 2008, 13, 37-39.	1.9	31
57	Prediction Accuracy of Dynamic Mode Decomposition. SIAM Journal of Scientific Computing, 2020, 42, A1639-A1662.	2.8	31
58	Lagrangian dynamic mode decomposition for construction of reduced-order models of advection-dominated phenomena. Journal of Computational Physics, 2020, 407, 109229.	3.8	31
59	Quantification of uncertainty in geochemical reactions. Water Resources Research, 2007, 43, .	4.2	30
60	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
61	Delay mechanisms of non-Fickian transport in heterogeneous media. Geophysical Research Letters, 2006, 33, .	4.0	28
62	Asymptotic Analysis of Cross-Hole Hydraulic Tests in Fractured Granite. Ground Water, 2006, 44, 555-563.	1.3	28
63	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
64	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
65	Algorithm refinement for stochastic partial differential equations: II. Correlated systems. Journal of Computational Physics, 2005, 207, 769-787.	3.8	25
66	Cumulative distribution function solutions of advection–reaction equations with uncertain parameters. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140189.	2.1	25
67	Effective Ion Diffusion in Charged Nanoporous Materials. Journal of the Electrochemical Society, 2017, 164, E53-E61.	2.9	25
68	Random domain decomposition for flow in heterogeneous stratified aquifers. Stochastic Environmental Research and Risk Assessment, 2003, 17, 394-407.	4.0	24
69	A Two-Scale Nonperturbative Approach to Uncertainty Analysis of Diffusion in Random Composites. Multiscale Modeling and Simulation, 2004, 2, 662-674.	1.6	24
70	Distributionâ€Based Global Sensitivity Analysis in Hydrology. Water Resources Research, 2019, 55, 8708-8720.	4.2	24
71	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
72	Self-consistent four-point closure for transport in steady random flows. Physical Review E, 2008, 77, 066307.	2.1	23

#	Article	IF	CITATIONS
73	Probability Density Function Method for Langevin Equations with Colored Noise. Physical Review Letters, 2013, 110, 140602.	7.8	23
74	CDF Solutions of BuckleyLeverett Equation with Uncertain Parameters. Multiscale Modeling and Simulation, 2013, 11, 118-133.	1.6	23
75	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
76	Probabilistic analysis of maintenance and operation of artificial recharge ponds. Advances in Water Resources, 2012, 36, 23-35.	3.8	22
77	Uncertainty quantification in kinematic-wave models. Journal of Computational Physics, 2012, 231, 7868-7880.	3.8	22
78	Bayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mains. Water Resources Research, 2020, 56, e2019WR025879.	4.2	22
79	Dynamics of Free Surfaces in Random Porous Media. SIAM Journal on Applied Mathematics, 2001, 61, 1857-1876.	1.8	21
80	A reduced complexity model for probabilistic risk assessment of groundwater contamination. Water Resources Research, 2008, 44, .	4.2	21
81	Probability density functions for advective–reactive transport in radial flow. Stochastic Environmental Research and Risk Assessment, 2010, 24, 985-992.	4.0	21
82	Hematocrit dispersion in asymmetrically bifurcating vascular networks. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1576-H1586.	3.2	21
83	Impact of Hydrogeological Uncertainty on Estimation of Environmental Risks Posed by Hydrocarbon Transportation Networks. Water Resources Research, 2017, 53, 8686-8697.	4.2	21
84	Method of Distributions for Water Hammer Equations With Uncertain Parameters. Water Resources Research, 2018, 54, 9398-9411.	4.2	21
85	Extension of "Transient flow in bounded randomly heterogeneous domains: 1, Exact conditional moment equations and recursive approximations― Water Resources Research, 1999, 35, 1921-1925.	4.2	20
86	Particle Methods for Heat Transfer in Fractured Media. Transport in Porous Media, 2016, 115, 311-326.	2.6	20
87	Estimation of distributions via multilevel Monte Carlo with stratified sampling. Journal of Computational Physics, 2020, 419, 109572.	3.8	20
88	Title is missing!. Transport in Porous Media, 2002, 49, 41-58.	2.6	19
89	Stochastic Collocation Methods for Nonlinear Parabolic Equations with Random Coefficients. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 475-494.	2.0	19
90	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

#	Article	IF	CITATIONS
91	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
92	Impact of endothelium roughness on blood flow. Journal of Theoretical Biology, 2012, 300, 152-160.	1.7	18
93	GINNs: Graph-Informed Neural Networks for multiscale physics. Journal of Computational Physics, 2021, 433, 110192.	3.8	18
94	Data-driven discovery of coarse-grained equations. Journal of Computational Physics, 2021, 434, 110219.	3.8	18
95	A New Physiological Boundary Condition for Hemodynamics. SIAM Journal on Applied Mathematics, 2013, 73, 1203-1223.	1.8	17
96	Hybrid modeling of heterogeneous geochemical reactions in fractured porous media. Water Resources Research, 2013, 49, 7945-7956.	4.2	17
97	An analytical solution for two-dimensional contaminant transport during groundwater extraction. Journal of Contaminant Hydrology, 2000, 42, 273-283.	3.3	16
98	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154-163.	2.2	16
99	Delineation of geologic facies with statistical learning theory. Geophysical Research Letters, 2004, 31,	4.0	16
100	Asymptotic analysis of cross-hole pneumatic injection tests in unsaturated fractured tuff. Advances in Water Resources, 2005, 28, 1217-1229.	3.8	16
101	Stochastic hybrid modeling of intracellular calcium dynamics. Journal of Chemical Physics, 2010, 133, 165101.	3.0	16
102	Reduced complexity models for probabilistic forecasting of infiltration rates. Advances in Water Resources, 2011, 34, 375-382.	3.8	16
103	Temperature fields induced by geothermal devices. Energy, 2015, 93, 1896-1903.	8.8	16
104	Parallel tensor methods for high-dimensional linear PDEs. Journal of Computational Physics, 2018, 375, 519-539.	3.8	16
105	Temperature estimation from current and voltage measurements in lithium-ion battery systems. Journal of Energy Storage, 2021, 34, 102133.	8.1	16
106	Dynamics of wetting fronts in porous media. Physical Review E, 1998, 58, R5245-R5248.	2.1	15
107	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. GigaScience, 2016, 5, 14.	6.4	15
108	Analytical model for gravity segregation of horizontal multiphase flow in porous media. Physics of Fluids, 2020, 32, .	4.0	15

#	Article	IF	CITATIONS
109	Interface dynamics in randomly heterogeneous porous media. Advances in Water Resources, 2005, 28, 393-403.	3.8	14
110	Ergodicity of pumping tests. Water Resources Research, 2007, 43, .	4.2	14
111	Asymptotic analysis of three-dimensional pressure interference tests: A point source solution. Water Resources Research, 2005, 41, .	4.2	13
112	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. Journal of Physics: Conference Series, 2007, 78, 012063.	0.4	13
113	Stochastic operator-splitting method for reaction-diffusion systems. Journal of Chemical Physics, 2012, 137, 184102.	3.0	13
114	Causality and Bayesian Network PDEs for multiscale representations of porous media. Journal of Computational Physics, 2019, 394, 658-678.	3.8	13
115	Data-Informed Method of Distributions for Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2020, 42, A559-A583.	2.8	13
116	Thermal Experiments for Fractured Rock Characterization: Theoretical Analysis and Inverse Modeling. Water Resources Research, 2021, 57, e2021WR030608.	4.2	13
117	Noise in Algorithm Refinement Methods. Computing in Science and Engineering, 2005, 7, 32-38.	1.2	12
118	Impact of Data Assimilation on Cost-Accuracy Tradeoff in Multifidelity Models. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 954-968.	2.0	12
119	Tensor methods for the Boltzmann-BGK equation. Journal of Computational Physics, 2020, 421, 109744.	3.8	12
120	Learning on dynamic statistical manifolds. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200213.	2.1	12
121	An Analytical Solution for Contaminant Transport in nonuniform Flow. Transport in Porous Media, 1997, 27, 85-97.	2.6	11
122	Nearestâ€neighbor classification for facies delineation. Water Resources Research, 2007, 43, .	4.2	11
123	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
124	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
125	Linear functional minimization for inverse modeling. Water Resources Research, 2015, 51, 4516-4531.	4.2	11
126	Accelerated Multilevel Monte Carlo With Kernelâ€Based Smoothing and Latinized Stratification. Water Resources Research, 2020, 56, e2019WR026984.	4.2	11

#	Article	IF	CITATIONS
127	Effects of spatioâ€ŧemporal variability of precipitation on contaminant migration in the vadose zone. Geophysical Research Letters, 2009, 36, .	4.0	10
128	Noise propagation in hybrid models of nonlinear systems: The Ginzburg–Landau equation. Journal of Computational Physics, 2014, 262, 313-324.	3.8	10
129	A boundary-layer solution for flow at the soil-root interface. Journal of Mathematical Biology, 2015, 70, 1645-1668.	1.9	10
130	Method of Distributions for Quantification of Geologic Uncertainty in Flow Simulations. Water Resources Research, 2020, 56, e2020WR027643.	4.2	10
131	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. Journal of Hydrology, 2009, 375, 554-565.	5.4	9
132	Response to "Comments on Abrupt-Interface Solution for Carbon Dioxide Injection into Porous Media by Dentz and Tartakovsky (2008)―by Lu etÂal Transport in Porous Media, 2009, 79, 39-41.	2.6	9
133	PROBABILISTIC PREDICTIONS OF INFILTRATION INTO HETEROGENEOUS MEDIA WITH UNCERTAIN HYDRAULIC PARAMETERS. , 2011, 1, 35-47.		9
134	Introduction to the special issue on uncertainty quantification and risk assessment. Advances in Water Resources, 2012, 36, 1-2.	3.8	9
135	Design of nanoporous materials with optimal sorption capacity. Journal of Applied Physics, 2015, 117, 244304.	2.5	9
136	Global sensitivity analysis of multiscale properties of porous materials. Journal of Applied Physics, 2018, 123, 075103.	2.5	9
137	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
138	Predicting vertical connectivity within an aquifer system. Bayesian Analysis, 2010, 5, .	3.0	8
139	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
140	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
141	Estimation of Intrinsic Length Scales of Flow in Unsaturated Porous Media. Water Resources Research, 2017, 53, 9980-9987.	4.2	8
142	Informationâ€Theoretic Approach to Bidirectional Scaling. Water Resources Research, 2018, 54, 4916-4928.	4.2	8
143	Probabilistic Forecast of Singleâ€Phase Flow in Porous Media With Uncertain Properties. Water Resources Research, 2019, 55, 8631-8645.	4.2	8
144	Efficient gHMC Reconstruction of Contaminant Release History. Frontiers in Environmental Science, 2019, 7, .	3.3	8

9

#	Article	IF	CITATIONS
145	Prior mapping for nonlinear flows in random environments. Physical Review E, 2001, 64, 035302.	2.1	7
146	Effective Properties of Random Composites. SIAM Journal of Scientific Computing, 2004, 26, 625-635.	2.8	7
147	Nonlinear localization of light in disordered optical fiber arrays. Physical Review A, 2008, 77, .	2.5	7
148	Identifying Transport Behavior of Single-Molecule Trajectories. Biophysical Journal, 2014, 107, 2345-2351.	0.5	7
149	Data-driven models of groundwater salinization in coastal plains. Journal of Hydrology, 2015, 531, 187-197.	5.4	7
150	Nonlocal PDF methods for Langevin equations with colored noise. Journal of Computational Physics, 2018, 367, 87-101.	3.8	7
151	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
152	Probabilistic Forecasting of Nitrogen Dynamics in Hyporheic Zone. Water Resources Research, 2018, 54, 4417-4431.	4.2	7
153	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
154	Mutual information for explainable deep learning of multiscale systems. Journal of Computational Physics, 2021, 444, 110551.	3.8	7
155	Information geometry of physics-informed statistical manifolds and its use in data assimilation. Journal of Computational Physics, 2022, 467, 111438.	3.8	7
156	Analytical models of axisymmetric reaction–diffusion phenomena in composite media. International Journal of Heat and Mass Transfer, 2016, 99, 425-431.	4.8	6
157	Efficient Multiscale Models of Polymer Assembly. Biophysical Journal, 2016, 111, 185-196.	0.5	6
158	Effects of Hydraulic Soil Properties on Vegetation Pattern Formation in Sloping Landscapes. Bulletin of Mathematical Biology, 2017, 79, 2773-2784.	1.9	6
159	A Hybrid Multiscale Model of Miscible Reactive Fronts. Water Resources Research, 2018, 54, 61-71.	4.2	6
160	Hydrodynamic dispersion in a tube with diffusive losses through its walls. Journal of Fluid Mechanics, 2018, 837, 546-561.	3.4	6
161	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154-163.	2.2	6
162	Uncertainty quantification for flow in highly heterogeneous porous media. Developments in Water Science, 2004, , 695-703.	0.1	5

#	Article	IF	CITATIONS
163	Delineation of geological facies from poorly differentiated data. Advances in Water Resources, 2009, 32, 225-230.	3.8	5
164	Replacing the Transfusion of 1–2 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
165	Method of Distributions for Uncertainty Quantification. , 2015, , 1-22.		5
166	Critical behavior and magnetocaloric effect of Pr1â^'xCaxMnO3. Journal of Applied Physics, 2015, 117, 17D122.	2.5	5
167	Efficient models of polymerization applied to FtsZ ring assembly in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4933-4938.	7.1	5
168	Microstructural heterogeneity drives reaction initiation in granular materials. Applied Physics Letters, 2019, 114, .	3.3	5
169	Advances in uncertainty quantification for water resources applications. Stochastic Environmental Research and Risk Assessment, 2021, 35, 955-957.	4.0	5
170	Method of Distributions for Uncertainty Quantification. , 2017, , 763-783.		5
171	Autonomous learning of nonlocal stochastic neuron dynamics. Cognitive Neurodynamics, 2022, 16, 683-705.	4.0	5
172	Some aspects of headâ€variance evaluation. Annals of Software Engineering, 1999, 3, 89-92.	0.5	4
173	Probabilistic risk analysis of building contamination. Indoor Air, 2008, 18, 351-364.	4.3	4
174	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
175	Functional optical imaging at the microscopic level. Journal of Biomedical Optics, 2010, 15, 011102.	2.6	4
176	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
177	Conservative tightly-coupled simulations of stochastic multiscale systems. Journal of Computational Physics, 2016, 313, 400-414.	3.8	4
178	Optimal design of nanoporous materials for electrochemical devices. Applied Physics Letters, 2017, 110, 143103.	3.3	4
179	A tightly-coupled domain-decomposition approach for highly nonlinear stochastic multiphysics systems. Journal of Computational Physics, 2017, 330, 884-901.	3.8	4
180	Stochastic self-tuning hybrid algorithm for reaction-diffusion systems. Journal of Chemical Physics, 2019, 151, 244117.	3.0	4

#	Article	IF	CITATIONS
181	Solute dispersion in bifurcating networks. Journal of Fluid Mechanics, 2020, 901, .	3.4	4
182	Extended dynamic mode decomposition for inhomogeneous problems. Journal of Computational Physics, 2021, 444, 110550.	3.8	4
183	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
184	Estimation of Evapotranspiration Rates and Root Water Uptake Profiles From Soil Moisture Sensor Array Data. Water Resources Research, 2021, 57, e2021WR030747.	4.2	4
185	Effective Representation of Active Material and Carbon Binder in Porous Electrodes. Journal of the Electrochemical Society, 0, , .	2.9	4
186	Stability-Guided Strategies to Mitigate Dendritic Growth in Lithium-Metal Batteries. Journal of the Electrochemical Society, 2022, 169, 060536.	2.9	4
187	COMPUTING GREEN'S FUNCTIONS FOR FLOW IN HETEROGENEOUS COMPOSITE MEDIA. , 2013, 3, 39-46.		3
188	Coexistence of short- and long-range ferromagnetic order in nanocrystalline Fe2Mn1â^'Cu Al (x=0.0, 0.1) Tj ETQo 394, 37-43.	0 0 0 rgB 2.3	T /Overlock ] 3
189	On the use of reverse Brownian motion to accelerate hybrid simulations. Journal of Computational Physics, 2017, 334, 68-80.	3.8	3
190	An analytical model for carrier-facilitated solute transport in weakly heterogeneous porous media. Applied Mathematical Modelling, 2017, 44, 261-273.	4.2	3
191	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
192	Modified immersed boundary method for flows over randomly rough surfaces. Journal of Computational Physics, 2020, 406, 109195.	3.8	3
193	Structural and Magnetic Properties Control of Pr0.7Ba0.3MnO3 with Sr-Doping. Physics of the Solid State, 2020, 62, 845-850.	0.6	3
194	Hybrid models of chemotaxis with application to leukocyte migration. Journal of Mathematical Biology, 2021, 82, 23.	1.9	3
195	Algorithm Refinement for Stochastic Partial Differential Equations. AIP Conference Proceedings, 2003, , .	0.4	2
196	Impact of stochastic fluctuations in the cell free layer on nitric oxide bioavailability. Frontiers in Computational Neuroscience, 2015, 9, 131.	2.1	2
197	Critical Behavior in Double-Exchange Ferromagnets of Pr <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> Nanoparticles. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
198	Noise-driven interfaces and their macroscopic representation. Physical Review E, 2016, 94, 052802.	2.1	2

#	Article	IF	CITATIONS
199	The frequency domain approach to analyse field-scale miscible flow transport experiments in the soils. Biosystems Engineering, 2018, 168, 96-104.	4.3	2
200	Resource-Constrained Model Selection for Uncertainty Propagation and Data Assimilation. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1118-1138.	2.0	2
201	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
202	METHOD OF DISTRIBUTIONS FOR SYSTEMS WITH STOCHASTIC FORCING., 2021, 11, 83-104.		2
203	Polynomial Chaos Expansions for Stiff Random ODEs. SIAM Journal of Scientific Computing, 2022, 44, A1021-A1046.	2.8	2
204	Hybrid numerical methods for multiscale simulations of subsurface biogeochemical processes. Journal of Physics: Conference Series, 2008, 125, 012054.	0.4	1
205	Closure to "Stream Depletion by Groundwater Pumping in Leaky Aquifers―by Vitaly A. Zlotnik and Daniel M. Tartakovsky. Journal of Hydrologic Engineering - ASCE, 2009, 14, 889-891.	1.9	1
206	Uncertainty quantification in modeling flow and transport in porous media. Stochastic Environmental Research and Risk Assessment, 2010, 24, 953-954.	4.0	1
207	Probabilistic Reconstruction of Hydrofacies With Support Vector Machines. Water Resources Research, 2021, 57, e2021WR029622.	4.2	1
208	A Geostatistical Model for Distribution of Facies in Highly Heterogeneous Aquifers. , 2004, , 211-222.		1
209	Machine Learning Methods for Inverse Modeling. , 2008, , 117-125.		1
210	Stochastic Forecasting of Algae Blooms in Lakes. Springer Proceedings in Mathematics and Statistics, 2013, , 99-108.	0.2	0
211	Doubly Penalized LASSO for Reconstruction of Biological Networks. Proceedings of the IEEE, 2017, 105, 319-329.	21.3	0
212	Micromagnetic simulation of fast GHz gyromotion of magnetic vortex core in Permalloy disk with antidot. AIP Conference Proceedings, 2019, , .	0.4	0
213	Quantification of Predictive Uncertainty in Models of FtsZ ring assembly in Escherichia coli. Journal of Theoretical Biology, 2020, 484, 110006.	1.7	0
214	Reply to Comment by Wang, Che, and Ghidaoui on "Bayesian Update and Method of Distributions: Application to Leak Detection in Transmission Mains― Water Resources Research, 2020, 56, e2020WR028605.	4.2	0
215	Exponential time differencing for problems without natural stiffness separation. Computational Geosciences, 2021, 25, 1667-1679.	2.4	0
216	Consensus Equilibrium for Subsurface Delineation. Water Resources Research, 2021, 57, e2021WR030151.	4.2	0

#	Article	IF	CITATIONS
217	Transient Flow in a Heterogeneous Vadose Zone with Uncertain Parameters. Vadose Zone Journal, 2004, 3, 154.	2.2	Ο