## Diogo Bolster

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Optimal Time Step Length for Lagrangian Interacting-Particle Simulations of Diffusive Mixing. Transport in Porous Media, 2023, 146, 413-433.	2.6	3
2	A Closer Look: High-Resolution Pore-Scale Simulations of Solute Transport and Mixing Through Porous Media Columns. Transport in Porous Media, 2023, 146, 85-111.	2.6	7
3	Solutions to Current Challenges in Widespread Monitoring of Groundwater Quality via Crowdsensing. Ground Water, 2022, 60, 15-24.	1.3	4
4	Social dilemmas and poor water quality in household water systems. Hydrology and Earth System Sciences, 2022, 26, 1187-1202.	4.9	1
5	A Terrestrialâ€Aquatic Model Reveals Crossâ€Scale Interactions Regulate Lateral Dissolved Organic Carbon Transport From Terrestrial Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
6	Addressing climate uncertainty and incomplete information in transboundary river treaties: A scenario-neutral dimensionality reduction approach. Journal of Hydrology, 2022, 612, 128004.	5.4	6
7	A review of spatial Markov models for predicting pre-asymptotic and anomalous transport in porous and fractured media. Journal of Contaminant Hydrology, 2021, 236, 103734.	3.3	18
8	anem: A Simple Webâ€Based Platform to Build Stakeholder Understanding of Groundwater Behavior. Ground Water, 2021, 59, 273-280.	1.3	4
9	Transient Surface Hydration Impacts Biogeography and Intercellular Interactions of Nonmotile Bacteria. Applied and Environmental Microbiology, 2021, 87, .	3.1	0
10	Upscaling bimolecular reactive transport in highly heterogeneous porous media with the LAgrangian Transport Eulerian Reaction Spatial (LATERS) Markov model. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1529.	4.0	4
11	Randomâ€Walk Modeling of Reactive Transport in Porous Media With a Reducedâ€Order Chemical Basis of Conservative Components. Water Resources Research, 2021, 57, e2020WR028679.	4.2	6
12	Nonparametric, data-based kernel interpolation for particle-tracking simulations and kernel density estimation. Advances in Water Resources, 2021, 152, 103889.	3.8	11
13	Subgrid surface connectivity for storm surge modeling. Advances in Water Resources, 2021, 153, 103939.	3.8	6
14	Effects of large-scale heterogeneity and temporally varying hydrologic processes on estimating immobile pore space: A mesoscale-laboratory experimental and numerical modeling investigation. Journal of Contaminant Hydrology, 2021, 241, 103811.	3.3	9
15	Projected changes of regional lake hydrologic characteristics in response to 21st century climate change. Inland Waters, 2021, 11, 335-350.	2.2	4
16	Subgrid corrections in finite-element modeling of storm-driven coastal flooding. Ocean Modelling, 2021, 167, 101887.	2.4	7
17	Riverine macrophytes control seasonal nutrient uptake via both physical and biological pathways. Freshwater Biology, 2020, 65, 178-192.	2.4	15
18	Climate change and the opportunity cost of conflict. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1935-1940.	7.1	21

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19	Comparison of negative skewed space fractional models with time nonlocal approaches for stream solute transport modeling. Journal of Hydrology, 2020, 582, 124504.	5.4	3
20	Characterizing the Influence of Fracture Density on Network Scale Transport. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018547.	3.4	18
21	Predicting Vertical Concentration Profiles in the Marine Atmospheric Boundary Layer With a Markov Chain Random Walk Model. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032731.	3.3	1
22	Study of phase-field lattice Boltzmann models based on the conservative Allen-Cahn equation. Physical Review E, 2020, 102, 023305.	2.1	15
23	Reactive particle-tracking solutions to a benchmark problem on heavy metal cycling in lake sediments. Journal of Contaminant Hydrology, 2020, 234, 103642.	3.3	7
24	Lagrangian Modeling of Mixing‣imited Reactive Transport in Porous Media: Multirate Interaction by Exchange With the Mean. Water Resources Research, 2020, 56, e2019WR026993.	4.2	12
25	The influence of meteorology and emissions on the spatio-temporal variability of PM10 in Malaysia. Atmospheric Research, 2020, 246, 105107.	4.1	8
26	Anionic nanoparticle and microplastic non-exponential distributions from source scale with grain size in environmental granular media. Water Research, 2020, 182, 116012.	11.3	26
27	Markovian transport processes in a heterogeneous, variably saturated watershed: A multi-domain spatial Markov model. Advances in Water Resources, 2020, 138, 103555.	3.8	6
28	Controls on fine particle retention in experimental streams. Freshwater Science, 2020, 39, 28-38.	1.8	2
29	A mass-transfer particle-tracking method for simulating transport with discontinuous diffusion coefficients. Advances in Water Resources, 2020, 140, 103577.	3.8	6
30	Using Natural Experiments and Counterfactuals for Causal Assessment: River Salinity and the Ganges Water Agreement. Water Resources Research, 2020, 56, e2019WR026166.	4.2	10
31	Upscaling transport of a sorbing solute in disordered non periodic porous domains. Advances in Water Resources, 2020, 139, 103574.	3.8	6
32	Upscaling of Solute Plumes in Periodic Porous Media Through a Trajectoryâ€Based Spatial Markov Model. Water Resources Research, 2020, 56, e2020WR028408.	4.2	2
33	Cross‣cale Interactions Dictate Regional Lake Carbon Flux and Productivity Response to Future Climate. Geophysical Research Letters, 2019, 46, 8840-8851.	4.0	13
34	Aging and mixing as pseudo-chemical-reactions between, and on, particles: Perspectives on particle interaction and multi-modal ages in hillslopes and streams. Advances in Water Resources, 2019, 132, 103386.	3.8	4
35	Subgrid theory for storm surge modeling. Ocean Modelling, 2019, 144, 101491.	2.4	15
36	Recent advances in anomalous transport models for predicting contaminants in natural groundwater systems. Current Opinion in Chemical Engineering, 2019, 26, 72-80.	7.8	8

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37	Particle density estimation with grid-projected and boundary-corrected adaptive kernels. Advances in Water Resources, 2019, 131, 103382.	3.8	23
38	Characterizing the impact of particle behavior at fracture intersections in three-dimensional discrete fracture networks. Physical Review E, 2019, 99, 013110.	2.1	21
39	A Dual Domain stochastic lagrangian model for predicting transport in open channels with hyporheic exchange. Advances in Water Resources, 2019, 125, 57-67.	3.8	17
40	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the United States of America, 2019, 116, 13799-13806.	7.1	162
41	Riverine distribution of mussel environmental <scp>DNA</scp> reflects a balance among density, transport, and removal processes. Freshwater Biology, 2019, 64, 1467-1479.	2.4	42
42	Transport and instream removal of the Cry1Ab protein from genetically engineered maize is mediated by biofilms in experimental streams. PLoS ONE, 2019, 14, e0216481.	2.5	2
43	Upscaling Mixing in Highly Heterogeneous Porous Media via a Spatial Markov Model. Water (Switzerland), 2019, 11, 53.	2.7	14
44	Effects of Turbulent Hyporheic Mixing on Reach‣cale Transport. Water Resources Research, 2019, 55, 3780-3795.	4.2	26
45	Trajectories as Training Images to Simulate Advectiveâ€Diffusive, Nonâ€Fickian Transport. Water Resources Research, 2019, 55, 3465-3480.	4.2	5
46	Field and Numerical Investigation of Transport Mechanisms in a Surface Storage Zone. Journal of Geophysical Research F: Earth Surface, 2019, 124, 938-959.	2.8	22
47	Salinization in large river deltas: Drivers, impacts and socio-hydrological feedbacks. Water Security, 2019, 6, 100024.	2.5	49
48	Effects of vertical hydrodynamic mixing on photomineralization of dissolved organic carbon in arctic surface waters. Environmental Sciences: Processes and Impacts, 2019, 21, 748-760.	3.5	8
49	A double-continuum transport model for segregated porous media: Derivation and sensitivity analysis-driven calibration. Advances in Water Resources, 2019, 128, 206-217.	3.8	12
50	A spatial Markov model for upscaling transport of adsorbing-desorbing solutes. Journal of Contaminant Hydrology, 2019, 222, 31-40.	3.3	20
51	Transport of food- and catalytic-grade titanium dioxide nanoparticles in controlled field streams with varying streambed and biofilm conditions. Environmental Science: Nano, 2019, 6, 3454-3466.	4.3	2
52	On the separate treatment of mixing and spreading by the reactive-particle-tracking algorithm: An example of accurate upscaling of reactive Poiseuille flow. Advances in Water Resources, 2019, 123, 40-53.	3.8	27
53	Modeling Benthic Versus Hyporheic Nutrient Uptake in Unshaded Streams With Varying Substrates. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 367-383.	3.0	19
54	Mixing-Limited Reactions in Porous Media. Transport in Porous Media, 2019, 130, 157-182.	2.6	61

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55	Anomalous Dispersion in Pore-Scale Simulations of Two-Phase Flow. Transport in Porous Media, 2019, 126, 337-353.	2.6	7
56	A simple phase-field model for interface tracking in three dimensions. Computers and Mathematics With Applications, 2019, 78, 1154-1165.	2.7	25
57	Spatially Explicit, Regionalâ€Scale Simulation of Lake Carbon Fluxes. Global Biogeochemical Cycles, 2018, 32, 1276-1293.	4.9	14
58	A phase-field lattice Boltzmann model for simulating multiphase flows in porous media: Application and comparison to experiments of CO2 sequestration at pore scale. Advances in Water Resources, 2018, 114, 119-134.	3.8	68
59	Anomalous behaviors during infiltration into heterogeneous porous media. Advances in Water Resources, 2018, 113, 180-188.	3.8	14
60	Integrated, Regionalâ $\in$ Scale Hydrologic Modeling of Inland Lakes. Journal of the American Water Resources Association, 2018, 54, 1302-1324.	2.4	9
61	Predicting Downstream Concentration Histories From Upstream Data in Column Experiments. Water Resources Research, 2018, 54, 9684-9694.	4.2	13
62	Substrate-specific biofilms control nutrient uptake in experimental streams. Freshwater Science, 2018, 37, 456-471.	1.8	14
63	Water Flow and Biofilm Cover Influence Environmental DNA Detection in Recirculating Streams. Environmental Science & Technology, 2018, 52, 8530-8537.	10.0	59
64	Diffuse interface modeling of three-phase contact line dynamics on curved boundaries: A lattice Boltzmann model for large density and viscosity ratios. Journal of Computational Physics, 2017, 334, 620-638.	3.8	120
65	Upscaling of dilution and mixing using a trajectory based Spatial Markov random walk model in a periodic flow domain. Advances in Water Resources, 2017, 103, 76-85.	3.8	27
66	FracFit: A robust parameter estimation tool for fractional calculus models. Water Resources Research, 2017, 53, 2559-2567.	4.2	38
67	Lagrangian simulation of mixing and reactions in complex geochemical systems. Water Resources Research, 2017, 53, 3513-3522.	4.2	39
68	Upscaling chemical reactions in multicontinuum systems: When might time fractional equations work?. Chaos, Solitons and Fractals, 2017, 102, 414-425.	5.1	14
69	A weighted multiple-relaxation-time lattice Boltzmann method for multiphase flows and its application to partial coalescence cascades. Journal of Computational Physics, 2017, 341, 22-43.	3.8	77
70	Introduction to special section on Modeling highly heterogeneous aquifers: Lessons learned in the last 30 years from the <scp>MADE</scp> experiments and others. Water Resources Research, 2017, 53, 2581-2584.	4.2	15
71	A Process-Based Model for Bioturbation-Induced Mixing. Scientific Reports, 2017, 7, 14287.	3.3	6
72	Improved locality of the phase-field lattice-Boltzmann model for immiscible fluids at high density ratios. Physical Review E, 2017, 96, 053301.	2.1	122

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73	Covariation in patterns of turbulenceâ€driven hyporheic flow and denitrification enhances reachâ€scale nitrogen removal. Water Resources Research, 2017, 53, 6927-6944.	4.2	30
74	Noise-Driven Return Statistics: Scaling and Truncation in Stochastic Storage Processes. Scientific Reports, 2017, 7, 302.	3.3	7
75	Controls on eDNA movement in streams: Transport, Retention, and Resuspension. Scientific Reports, 2017, 7, 5065.	3.3	218
76	Localized Point Mixing Rate Potential in Heterogeneous Velocity Fields. Transport in Porous Media, 2017, 119, 391-402.	2.6	10
77	Parameterizing the Spatial Markov Model From Breakthrough Curve Data Alone. Water Resources Research, 2017, 53, 10888-10898.	4.2	19
78	A comparison of Eulerian and Lagrangian transport and non-linear reaction algorithms. Advances in Water Resources, 2017, 99, 15-37.	3.8	61
79	Characterization of bedload intermittency near the threshold of motion using a Lagrangian sediment transport model. Environmental Fluid Mechanics, 2017, 17, 111-137.	1.6	21
80	Transport of Single-Layered Graphene Oxide Nanosheets through Quartz and Iron Oxide–Coated Sand Columns. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	8
81	Elimination of the Reaction Rate "Scale Effect― Application of the Lagrangian Reactive Particleâ€Tracking Method to Simulate Mixing‣imited, Fieldâ€Scale Biodegradation at the Schoolcraft (MI,) T	jETQq11	0.7 <b>&amp;</b> \$1314 rg
82	A Lagrangian Transport Eulerian Reaction Spatial (LATERS) Markov Model for Prediction of Effective Bimolecular Reactive Transport. Water Resources Research, 2017, 53, 9040-9058.	4.2	18
83	Effects of incomplete mixing on reactive transport in flows through heterogeneous porous media. Physical Review Fluids, 2017, 2, .	2.5	21
84	Biofilm growth in gravel bed streams controls solute residence time distributions. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1840-1850.	3.0	44
85	An Integrated Experimental and Modeling Approach to Predict Sediment Mixing from Benthic Burrowing Behavior. Environmental Science & Technology, 2016, 50, 10047-10054.	10.0	22
86	Influence of Stream Bottom Substrate on Retention and Transport of Vertebrate Environmental DNA. Environmental Science & Technology, 2016, 50, 8770-8779.	10.0	131
87	Arbitrarily complex chemical reactions on particles. Water Resources Research, 2016, 52, 9190-9200.	4.2	35
88	Testing the limits of the spatial Markov model for upscaling transport: The role of nonmonotonic effective velocity autocorrelations. Physical Review E, 2016, 94, 043107.	2.1	12
89	A particle number conserving <scp>L</scp> agrangian method for mixingâ€driven reactive transport. Water Resources Research, 2016, 52, 1518-1527.	4.2	43
90	Modelling the transport of environmental DNA through a porous substrate using continuous flow-through column experiments. Journal of the Royal Society Interface, 2016, 13, 20160290.	3.4	57

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91	Rock dissolution patterns and geochemical shutdown of –brine–carbonate reactions during convective mixing in porous media. Journal of Fluid Mechanics, 2015, 764, 296-315.	3.4	43
92	Fractal patterns in riverbed morphology produce fractal scaling of water storage times. Geophysical Research Letters, 2015, 42, 5309-5315.	4.0	28
93	Incomplete mixing and reactions in laminar shear flow. Physical Review E, 2015, 92, 012922.	2.1	16
94	Improving the representation of hydrologic processes in Earth System Models. Water Resources Research, 2015, 51, 5929-5956.	4.2	366
95	A Dynamic, Multivariate Sustainability Measure for Robust Analysis of Water Management under Climate and Demand Uncertainty in an Arid Environment. Water (Switzerland), 2015, 7, 5928-5958.	2.7	13
96	Effects of benthic and hyporheic reactive transport on breakthrough curves. Freshwater Science, 2015, 34, 301-315.	1.8	32
97	Peak and tail scaling of breakthrough curves in hydrologic tracer tests. Advances in Water Resources, 2015, 78, 1-8.	3.8	23
98	Characterization of the endemic equilibrium and response to mutant injection in a multi-strain disease model. Journal of Theoretical Biology, 2015, 368, 27-36.	1.7	2
99	Mobility of Dissolved Organic Matter from the Suwannee River (Georgia, USA) in Sand-Packed Columns. Environmental Engineering Science, 2015, 32, 4-13.	1.6	6
100	Pre-asymptotic Transport Upscaling in Inertial and Unsteady Flows Through Porous Media. Transport in Porous Media, 2015, 109, 411-432.	2.6	22
101	Upscaling transport of a reacting solute through a peridocially converging–diverging channel at pre-asymptotic times. Journal of Contaminant Hydrology, 2015, 182, 1-15.	3.3	33
102	Natural Organic Matter Transport Modeling with a Continuous Time Random Walk Approach. Environmental Engineering Science, 2014, 31, 98-106.	1.6	10
103	Oscillating-grid experiments in water and superfluid helium. Physical Review E, 2014, 89, 053016.	2.1	3
104	Connecting the dots: Semi-analytical and random walk numerical solutions of the diffusion–reaction equation with stochastic initial conditions. Journal of Computational Physics, 2014, 263, 91-112.	3.8	65
105	The fluid mechanics of dissolution trapping in geologic storage of CO <sub>2</sub> . Journal of Fluid Mechanics, 2014, 740, 1-4.	3.4	19
106	Predicting the enhancement of mixing-driven reactions in nonuniform flows using measures of flow topology. Physical Review E, 2014, 90, 051001.	2.1	27
107	Effect of fouling layer spatial distribution on permeate flux: A theoretical and experimental study. Journal of Membrane Science, 2014, 471, 130-137.	8.2	51
108	Timeâ€Dependent Health Risk from Contaminated Groundwater Including Use of Reliability, Resilience, and Vulnerability as Measures. Journal of the American Water Resources Association, 2014, 50, 14-28.	2.4	13

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109	Modeling preasymptotic transport in flows with significant inertial and trapping effects – The importance of velocity correlations and a spatial Markov model. Advances in Water Resources, 2014, 70, 89-103.	3.8	63
110	Substrate size and heterogeneity control anomalous transport in small streams. Geophysical Research Letters, 2014, 41, 8335-8341.	4.0	49
111	Apparent directional mass-transfer capacity coefficients in three-dimensional anisotropic heterogeneous aquifers under radial convergent transport. Water Resources Research, 2014, 50, 1205-1224.	4.2	35
112	Buoyant convection from a discrete source in a leaky porous medium. Journal of Fluid Mechanics, 2014, 755, 204-229.	3.4	8
113	Semianalytical Solution for \$\$ext{ CO}_{2}\$\$ Plume Shape and Pressure Evolution During \$\$ext{ CO}_{2}\$\$ Injection in Deep Saline Formations. Transport in Porous Media, 2013, 97, 43-65.	2.6	40
114	Mixing-driven equilibrium reactions in multidimensional fractional advection–dispersion systems. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2513-2525.	2.6	17
115	The significance of model structure in one-dimensional stream solute transport models with multiple transient storage zones – competing vs. nested arrangements. Journal of Hydrology, 2013, 497, 133-144.	5.4	14
116	A numerical investigation of mixing and spreading across an angled discontinuity. Advances in Water Resources, 2013, 62, 280-291.	3.8	6
117	Effect of polydispersity on natural organic matter transport. Water Research, 2013, 47, 2231-2240.	11.3	17
118	Flow Intermittency, Dispersion, and Correlated Continuous Time Random Walks in Porous Media. Physical Review Letters, 2013, 110, 184502.	7.8	184
119	Modeling bimolecular reactions and transport in porous media via particle tracking. Advances in Water Resources, 2013, 53, 56-65.	3.8	79
120	On the formation of breakthrough curves tailing during convergent flow tracer tests in threeâ€dimensional heterogeneous aquifers. Water Resources Research, 2013, 49, 4157-4173.	4.2	50
121	Communication: A full solution of the annihilation reaction <i>A</i> + <i>B</i> → â^ based on time-subordination. Journal of Chemical Physics, 2013, 138, 131101.	3.0	8
122	A riskâ€based probabilistic framework to estimate the endpoint of remediation: Concentration rebound by rateâ€limited mass transfer. Water Resources Research, 2013, 49, 1929-1942.	4.2	47
123	Particle tracking and the diffusionâ€reaction equation. Water Resources Research, 2013, 49, 1-6.	4.2	192
124	Anomalous dispersion in chemically heterogeneous media induced by long-range disorder correlation. Journal of Fluid Mechanics, 2012, 695, 366-389.	3.4	11
125	The impact of inertial effects on solute dispersion in a channel with periodically varying aperture. Physics of Fluids, 2012, 24, .	4.0	46
126	Visualization of Mixing Processes in a Heterogeneous Sand Box Aquifer. Environmental Science & Technology, 2012, 46, 3228-3235.	10.0	32

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127	The effect of initial spatial correlations on late time kinetics of bimolecular irreversible reactions. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4654-4660.	2.6	4
128	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
129	Probabilistic analysis of maintenance and operation of artificial recharge ponds. Advances in Water Resources, 2012, 36, 23-35.	3.8	22
130	Incomplete mixing and reactions with fractional dispersion. Advances in Water Resources, 2012, 37, 86-93.	3.8	49
131	Introduction to the special issue on uncertainty quantification and risk assessment. Advances in Water Resources, 2012, 36, 1-2.	3.8	9
132	Effect of spatial concentration fluctuations on effective kinetics in diffusionâ€reaction systems. Water Resources Research, 2012, 48, .	4.2	23
133	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. Engineering Geology, 2012, 125, 35-44.	6.3	49
134	A quick and inexpensive method to quantify spatially variable infiltration capacity for artificial recharge ponds using photographic images. Journal of Hydrology, 2012, 430-431, 118-126.	5.4	21
135	Product rule for vector fractional derivatives. Fractional Calculus and Applied Analysis, 2012, 15, .	2.2	6
136	The impact of buoyancy on front spreading in heterogeneous porous media in twoâ€phase immiscible flow. Water Resources Research, 2011, 47, .	4.2	9
137	A divide and conquer approach to cope with uncertainty, human health risk, and decision making in contaminant hydrology. Water Resources Research, 2011, 47, .	4.2	29
138	Effective poreâ€scale dispersion upscaling with a correlated continuous time random walk approach. Water Resources Research, 2011, 47, .	4.2	75
139	Hypermixing in linear shear flow. Water Resources Research, 2011, 47, .	4.2	26
140	Dynamic similarity, the dimensionless science. Physics Today, 2011, 64, 42-47.	0.3	38
141	Mixing in confined stratified aquifers. Journal of Contaminant Hydrology, 2011, 120-121, 198-212.	3.3	77
142	Combining physical-based models and satellite images for the spatio-temporal assessment of soil infiltration capacity. Stochastic Environmental Research and Risk Assessment, 2011, 25, 1065-1075.	4.0	13
143	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
144	On an experimentally observed phenomenon on vortex rings during their translational movement in a real liquid. Annalen Der Physik, 2011, 523, 360-379.	2.4	2

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145	An appreciation of the 1939 paper "On an experimentally observed phenomenon on vortex rings …―by Carlâ€Heinz Krutzsch. Annalen Der Physik, 2011, 523, 380-382.	2.4	1
146	Persistence of incomplete mixing: A key to anomalous transport. Physical Review E, 2011, 84, 015301.	2.1	65
147	Anomalous kinetics in diffusion limited reactions linked to non-Gaussian concentration probability distribution function. Journal of Chemical Physics, 2011, 135, 174104.	3.0	18
148	Intrusive gravity currents between two stably stratified fluids. Journal of Fluid Mechanics, 2010, 647, 53-69.	3.4	22
149	Effects of CO2 Compressibility on CO2 Storage in Deep Saline Aquifers. Transport in Porous Media, 2010, 85, 619-639.	2.6	84
150	Coupled hydromechanical modeling of CO2 sequestration in deep saline aquifers. International Journal of Greenhouse Gas Control, 2010, 4, 910-919.	4.6	139
151	Non-Fickian mixing: Temporal evolution of the scalar dissipation rate in heterogeneous porous media. Advances in Water Resources, 2010, 33, 1468-1475.	3.8	147
152	Distribution- Versus Correlation-Induced Anomalous Transport in Quenched Random Velocity Fields. Physical Review Letters, 2010, 105, 244301.	7.8	65
153	Oscillating pendulum decay by emission of vortex rings. Physical Review E, 2010, 81, 046317.	2.1	15
154	Anomalous mixing and reaction induced by superdiffusive nonlocal transport. Physical Review E, 2010, 82, 021119.	2.1	51
155	Slowing of vortex rings by development of Kelvin waves. Physical Review E, 2010, 82, 036309.	2.1	6
156	Multipoint concentration statistics for transport in stratified random velocity fields. Physical Review E, 2009, 80, 036306.	2.1	4
157	Concentration statistics for transport in random media. Physical Review E, 2009, 80, 010101.	2.1	19
158	Solute dispersion in channels with periodically varying apertures. Physics of Fluids, 2009, 21, .	4.0	57
159	An analytical approach to transient homovalent cation exchange problems. Journal of Hydrology, 2009, 378, 281-289.	5.4	5
160	Particle transport in low-energy ventilation systems. Part 1: theory of steady states. Indoor Air, 2009, 19, 122-129.	4.3	12
161	Multicomponent reactive transport in multicontinuum media. Water Resources Research, 2009, 45,	4.2	66
162	Effective twoâ€phase flow in heterogeneous media under temporal pressure fluctuations. Water Resources Research, 2009, 45, .	4.2	29

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163	Probabilistic risk analysis of groundwater remediation strategies. Water Resources Research, 2009, 45, .	4.2	72
164	Particle transport in low-energy ventilation systems. Part 2: Transients and experiments. Indoor Air, 2009, 19, 130-144.	4.3	14
165	The response of natural displacement ventilation to time-varying heat sources. Energy and Buildings, 2008, 40, 2099-2110.	6.7	20
166	Probabilistic risk analysis of building contamination. Indoor Air, 2008, 18, 351-364.	4.3	4
167	The front speed of intrusions into a continuously stratified medium. Journal of Fluid Mechanics, 2008, 594, 369-377.	3.4	29
168	Transients in natural ventilation — A time-periodically-varying source. Building Services Engineering Research and Technology, 2008, 29, 119-135.	1.8	11
169	Dynamics of thin vortex rings. Journal of Fluid Mechanics, 2008, 609, 319-347.	3.4	110
170	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
171	Contaminants in ventilated filling boxes. Journal of Fluid Mechanics, 2007, 591, 97-116.	3.4	35
172	Analytical models of contaminant transport in coastal aquifers. Advances in Water Resources, 2007, 30, 1962-1972.	3.8	37
173	Characterizing Reactive Transport Behavior in a Three-Dimensional Discrete Fracture Network.	2.6	3