Hakan Basagaoglu

List of Publications by Year
in descending order

32 papers	476 citations	759233 12 h-index	713466 21 g-index
33 all docs	33 docs citations	33 times ranked	427 citing authors

#	Article	IF	Citations
1	Scenario-based prediction of climate change impacts on building cooling energy consumption with explainable artificial intelligence. Applied Energy, 2021, 291, 116807.	10.1	70
2	Interpretable vs. noninterpretable machine learning models for data-driven hydro-climatological process modeling. Expert Systems With Applications, 2021, 170, 114498.	7.6	65
3	Inactivation of particle-associated microorganisms in wastewater disinfection: Modeling of ozone and chlorine reactive diffusive transport in polydispersed suspensions. Water Research, 2007, 41, 2189-2201.	11.3	45
4	Preliminary assessment of transport processes influencing the penetration of chlorine into wastewater particles and the subsequent inactivation of particle-associated organisms. Water Research, 2003, 37, 139-149.	11.3	41
5	Joint Management of Surface and Ground Water Supplies. Ground Water, 1999, 37, 214-222.	1.3	35
6	Particle Shape Influences Settling and Sorting Behavior in Microfluidic Domains. Scientific Reports, 2018, 8, 8583.	3.3	22
7	A Review on Interpretable and Explainable Artificial Intelligence in Hydroclimatic Applications. Water (Switzerland), 2022, 14, 1230.	2.7	20
8	Î´-Form approximating problem for a conjunctive water resource management model. Advances in Water Resources, 1999, 23, 69-81.	3.8	19
9	A diffusion limited sorption kinetics model with polydispersed particles of distinct sizes and shapes. Advances in Water Resources, 2002, 25, 755-772.	3.8	18
10	Lattice-Boltzmann simulations of repulsive particle-particle and particle-wall interactions: Coughing and choking. Journal of Chemical Physics, 2010, 132, 134111.	3.0	16
11	Reliable Evapotranspiration Predictions with a Probabilistic Machine Learning Framework. Water (Switzerland), 2021, 13, 557.	2.7	13
12	Lattice Boltzmann simulations of vortex entrapment of particles in a microchannel with curved or flat edges. Microfluidics and Nanofluidics, 2015, 18, 1165-1175.	2.2	12
13	Explainable AI reveals new hydroclimatic insights for ecosystem-centric groundwater management. Environmental Research Letters, 2021, 16, 114024.	5.2	12
14	Benefit-Cost Model for an Artificial Recharge Scenario in the San Joaquin Valley, California. Water Resources Management, 1999, 13, 189-203.	3.9	11
15	Linear driving force approximation to a radial diffusive model. AICHE Journal, 2000, 46, 2097-2105.	3.6	11
16	Combined effects of fluid type and particle shape on particles flow in microfluidic platforms. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	10
17	Formulation of a soilâ€"pesticide transport model based on a compartmental approach. Journal of Contaminant Hydrology, 2002, 56, 1-24.	3.3	9
18	Enhanced computational performance of the lattice Boltzmann model for simulating micron- and submicron-size particle flows and non-Newtonian fluid flows. Computer Physics Communications, 2017, 213, 64-71.	7.5	9

#	Article	IF	Citations
19	Sensitivity of the active fracture model parameter to fracture network orientation and injection scenarios. Hydrogeology Journal, 2009, 17, 1347-1358.	2.1	7
20	Linear driving-force model for diffusion and reaction with interphase partitioning. AIChE Journal, 2001, 47, 754-757.	3.6	4
21	Transport in heterogeneous media: Tracer dynamics in complex flow networks. AIChE Journal, 2002, 48, 1121-1131.	3.6	4
22	Radial Pore Diffusion with Nonuniform Intraparticle Porosities. Journal of Environmental Engineering, ASCE, 2004, 130, 1170-1179.	1.4	4
23	Assessing the Effects of Epikarst on Groundwater Recharge and Regional Fast-Flow Pathways in a Karstic Aquifer via Impulse-Response Functions. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	4
24	Comment on â€œModel coupling intra-particle diffusion/sorption, nonlinear sorption, and biodegradation processâ€•by H.K. Karapanagioti, C.M. Gossard, K.A. Strevett, R.L. Kolar, and D.A. Sabatini. Journal of Contaminant Hydrology, 2002, 57, 303-310.	3.3	3
25	Coupled RapidCell and lattice Boltzmann models to simulate hydrodynamics of bacterial transport in response to chemoattractant gradients in confined domains. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	3
26	Computational performance of SequenceL coding of the lattice Boltzmann method for multi-particle flow simulations. Computer Physics Communications, 2017, 213, 92-99.	7.5	3
27	Rate Parameters for Methyl tert -Butyl Ether Biodegradation via a Radial Diffusion Model. Journal of Environmental Engineering, ASCE, 2003, 129, 565-570.	1.4	2
28	LAND SUBSIDENCE IN THE LOS BANOSâ€"KETTLEMAN CITY AREA, CALIFORNIA: PAST AND FUTURE OCCURRENCE. Physical Geography, 1999, 20, 67-82.	1.4	1
29	Modeling the Inactivation of Microorganisms Occluded in Effluent Wastewater Particles to Enhance Operation of Filtration and Disinfection Systems. Water Environment Research, 2011, 83, 313-325.	2.7	1
30	Localization of chemical sources using e. coli chemotaxis. Proceedings of SPIE, 2016, , .	0.8	1
31	Effects of Advective-Diffusive Transport of Multiple Chemoattractants on Motility of Engineered Chemosensory Particles in Fluidic Environments. Entropy, 2019, 21, 465.	2.2	1
32	Speed-Up of Colloidal Fluctuating Lattice Boltzmann Simulations through Discrete Approximations of Probability Distributions. , 2017, , .		0