Glenn E Hammond

List of Publications by Year
in descending order

30 papers	999 citations	516710 16 h-index	477307 29 g-index
37 all docs	37 docs citations	37 times ranked	1138 citing authors

#	Article	IF	Citations
1	The PFLOTRAN Reaction Sandbox. Geoscientific Model Development, 2022, 15, 1659-1676.	3.6	0
2	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow Under Highly Dynamic Flow Conditions. Water Resources Research, 2022, 58, .	4.2	10
3	Coupling surface flow with high-performance subsurface reactive flow and transport code PFLOTRAN. Environmental Modelling and Software, 2021, 137, 104959.	4.5	15
4	Effect of Glacial/Interglacial Recharge Conditions on Flow of Meteoric Water Through Deep Orogenic Faults: Insights Into the Geothermal System at Grimsel Pass, Switzerland. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021271.	3.4	6
5	Linear and nonlinear solvers for simulating multiphase flow within large-scale engineered subsurface systems. Advances in Water Resources, 2021, 156, 104029.	3.8	4
6	River Dynamics Control Transit Time Distributions and Biogeochemical Reactions in a Damâ€Regulated River Corridor. Water Resources Research, 2020, 56, e2019WR026470.	4.2	12
7	Understanding Contaminant Migration Within a Dynamic River Corridor Through Field Experiments and Reactive Transport Modeling. Frontiers in Water, 2020, 2, .	2.3	2
8	A multirate mass transfer model to represent the interaction of multicomponent biogeochemical processes between surface water and hyporheic zones (SWAT-MRMT-R 1.0). Geoscientific Model Development, 2020, 13, 3553-3569.	3.6	14
9	Delineating Facies Spatial Distribution by Integrating Ensemble Data Assimilationand Indicator Geostatistics With Levelâ€Set Transformation. Water Resources Research, 2019, 55, 2652-2671.	4.2	22
10	Using Bayesian Networks for Sensitivity Analysis of Complex Biogeochemical Models. Water Resources Research, 2019, 55, 3541-3555.	4.2	23
11	Dam Operations and Subsurface Hydrogeology Control Dynamics of Hydrologic Exchange Flows in a Regulated River Reach. Water Resources Research, 2019, 55, 2593-2612.	4.2	39
12	Riverbed Hydrologic Exchange Dynamics in a Large Regulated River Reach. Water Resources Research, 2018, 54, 2715-2730.	4.2	17
13	Development and evaluation of a variably saturated flow model in the global E3SM Land Model (ELM) version 1.0. Geoscientific Model Development, 2018, 11, 4085-4102.	3.6	22
14	Drought Conditions Maximize the Impact of Highâ€Frequency Flow Variations on Thermal Regimes and Biogeochemical Function in the Hyporheic Zone. Water Resources Research, 2018, 54, 7361-7382.	4.2	63
15	Modulating factors of hydrologic exchanges in a largeâ€scale river reach: Insights from threeâ€dimensional computational fluid dynamics simulations. Hydrological Processes, 2018, 32, 3446-3463.	2.6	11
16	PFLOTRAN-E4D: A parallel open source PFLOTRAN module for simulating time-lapse electrical resistivity data. Computers and Geosciences, 2017, 99, 72-80.	4.2	21
17	Implications of Grain-Scale Mineralogical Heterogeneity for Radionuclide Transport in Fractured Media. Transport in Porous Media, 2017, 116, 73-90.	2.6	14
18	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate streamâ€“aquiferâ€“land interactions (CPÂv1.0). Geoscientific Model Development, 2017, 10, 4539-4562.	3.6	25

#	Article	IF	Citations
19	Addressing numerical challenges in introducing a reactive transport code into a land surface model: a biogeochemical modeling proof-of-concept with CLMâ€“PFLOTRAN 1.0. Geoscientific Model Development, 2016, 9, 927-946.	3.6	14
20	River stage influences on uranium transport in a hydrologically dynamic groundwaterâ€surface water transition zone. Water Resources Research, 2016, 52, 1568-1590.	4.2	42
21	Fourâ€dimensional electrical conductivity monitoring of stageâ€driven river water intrusion: Accounting for water table effects using a transient mesh boundary and conditional inversion constraints. Water Resources Research, 2015, 51, 6177-6196.	4.2	33
22	A Hybrid Multiscale Framework for Subsurface Flow and Transport Simulations. Procedia Computer Science, 2015, 51, 1098-1107.	2.0	8
23	Evaluating the performance of parallel subsurface simulators: An illustrative example with PFLOTRAN. Water Resources Research, 2014, 50, 208-228.	4.2	218
24	Elucidating geochemical response of shallow heterogeneous aquifers to CO2 leakage using high-performance computing: Implications for monitoring of CO2 sequestration. Advances in Water Resources, 2013, 53, 45-55.	3.8	84
25	Application of ensemble-based data assimilation techniques for aquifer characterization using tracer data at Hanford 300 area. Water Resources Research, 2013, 49, 7064-7076.	4.2	37
26	Using High Performance Computing to Understand Roles of Labile and Nonlabile Uranium(VI) on Hanford 300 Area Plume Longevity. Vadose Zone Journal, 2012, 11, vzj2011.0097.	2.2	11
27	Threeâ€dimensional Bayesian geostatistical aquifer characterization at the Hanford 300 Area using tracer test data. Water Resources Research, 2012, 48, .	4.2	40
28	Stochastic simulation of uranium migration at the Hanford 300 Area. Journal of Contaminant Hydrology, 2011, 120-121, 115-128.	3.3	34
29	Fieldâ€scale model for the natural attenuation of uranium at the Hanford 300 Area using highâ€performance computing. Water Resources Research, 2010, 46, .	4.2	105
30	Application of Jacobian-free Newtonâ€“Krylov with physics-based preconditioning to biogeochemical transport. Advances in Water Resources, 2005, 28, 359-376.	3.8	48