

Glenn E Hammond

List of Publications by Year in descending order

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papers

999
citations

516710

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37
all docs

37
docs citations

37
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the performance of parallel subsurface simulators: An illustrative example with PFLOTRAN. <i>Water Resources Research</i> , 2014, 50, 208-228.	4.2	218
2	Field-scale model for the natural attenuation of uranium at the Hanford 300 Area using high-performance computing. <i>Water Resources Research</i> , 2010, 46, .	4.2	105
3	Elucidating geochemical response of shallow heterogeneous aquifers to CO2 leakage using high-performance computing: Implications for monitoring of CO2 sequestration. <i>Advances in Water Resources</i> , 2013, 53, 45-55.	3.8	84
4	Drought Conditions Maximize the Impact of High-Frequency Flow Variations on Thermal Regimes and Biogeochemical Function in the Hyporheic Zone. <i>Water Resources Research</i> , 2018, 54, 7361-7382.	4.2	63
5	Application of Jacobian-free Newton-Krylov with physics-based preconditioning to biogeochemical transport. <i>Advances in Water Resources</i> , 2005, 28, 359-376.	3.8	48
6	River stage influences on uranium transport in a hydrologically dynamic groundwater-surface water transition zone. <i>Water Resources Research</i> , 2016, 52, 1568-1590.	4.2	42
7	Three-dimensional Bayesian geostatistical aquifer characterization at the Hanford 300 Area using tracer test data. <i>Water Resources Research</i> , 2012, 48, .	4.2	40
8	Dam Operations and Subsurface Hydrogeology Control Dynamics of Hydrologic Exchange Flows in a Regulated River Reach. <i>Water Resources Research</i> , 2019, 55, 2593-2612.	4.2	39
9	Application of ensemble-based data assimilation techniques for aquifer characterization using tracer data at Hanford 300 area. <i>Water Resources Research</i> , 2013, 49, 7064-7076.	4.2	37
10	Stochastic simulation of uranium migration at the Hanford 300 Area. <i>Journal of Contaminant Hydrology</i> , 2011, 120-121, 115-128.	3.3	34
11	Four-dimensional electrical conductivity monitoring of stage-driven river water intrusion: Accounting for water table effects using a transient mesh boundary and conditional inversion constraints. <i>Water Resources Research</i> , 2015, 51, 6177-6196.	4.2	33
12	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate stream-aquifer-land interactions (CPAV1.0). <i>Geoscientific Model Development</i> , 2017, 10, 4539-4562.	3.6	25
13	Using Bayesian Networks for Sensitivity Analysis of Complex Biogeochemical Models. <i>Water Resources Research</i> , 2019, 55, 3541-3555.	4.2	23
14	Development and evaluation of a variably saturated flow model in the global E3SM Land Model (ELM) version 1.0. <i>Geoscientific Model Development</i> , 2018, 11, 4085-4102.	3.6	22
15	Delineating Facies Spatial Distribution by Integrating Ensemble Data Assimilation and Indicator Geostatistics With Level-Set Transformation. <i>Water Resources Research</i> , 2019, 55, 2652-2671.	4.2	22
16	PFLOTRAN-E4D: A parallel open source PFLOTRAN module for simulating time-lapse electrical resistivity data. <i>Computers and Geosciences</i> , 2017, 99, 72-80.	4.2	21
17	Riverbed Hydrologic Exchange Dynamics in a Large Regulated River Reach. <i>Water Resources Research</i> , 2018, 54, 2715-2730.	4.2	17
18	Coupling surface flow with high-performance subsurface reactive flow and transport code PFLOTRAN. <i>Environmental Modelling and Software</i> , 2021, 137, 104959.	4.5	15

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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	Implications of Grain-Scale Mineralogical Heterogeneity for Radionuclide Transport in Fractured Media. Transport in Porous Media, 2017, 116, 73-90.	2.6	14
21	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
22	River Dynamics Control Transit Time Distributions and Biogeochemical Reactions in a Damâ€Regulated River Corridor. Water Resources Research, 2020, 56, e2019WR026470.	4.2	12
23	Using High Performance Computing to Understand Roles of Labile and Nonlabile Uranium(VI) on Hanford 300 Area Plume Longevity. Vadose Zone Journal, 2012, 11, vzt2011.0097.	2.2	11
24	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
25	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow Under Highly Dynamic Flow Conditions. Water Resources Research, 2022, 58, .	4.2	10
26	A Hybrid Multiscale Framework for Subsurface Flow and Transport Simulations. Procedia Computer Science, 2015, 51, 1098-1107.	2.0	8
27	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
28	Linear and nonlinear solvers for simulating multiphase flow within large-scale engineered subsurface systems. Advances in Water Resources, 2021, 156, 104029.	3.8	4
29	Understanding Contaminant Migration Within a Dynamic River Corridor Through Field Experiments and Reactive Transport Modeling. Frontiers in Water, 2020, 2, .	2.3	2
30	The PFLOTRAN Reaction Sandbox. Geoscientific Model Development, 2022, 15, 1659-1676.	3.6	0