

Xuehang Song

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

495
citations

687363

13
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all docs

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docs citations

33
times ranked

538
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Numerical Comparison of Iterative Ensemble Kalman Filters for Unsaturated Flow Inverse Modeling. <i>Vadose Zone Journal</i> , 2014, 13, 1-12.	2.2	47
3	Regulation-Structured Dynamic Metabolic Model Provides a Potential Mechanism for Delayed Enzyme Response in Denitrification Process. <i>Frontiers in Microbiology</i> , 2017, 8, 1866.	3.5	40
4	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
5	Impacts of different types of measurements on estimating unsaturated flow parameters. <i>Journal of Hydrology</i> , 2015, 524, 549-561.	5.4	35
6	Simulating One-Dimensional Unsaturated Flow in Heterogeneous Soils with Water Content-Based Richards Equation. <i>Vadose Zone Journal</i> , 2013, 12, 1-13.	2.2	32
7	A geostatistics-informed hierarchical sensitivity analysis method for complex groundwater flow and transport modeling. <i>Water Resources Research</i> , 2017, 53, 4327-4343.	4.2	30
8	Integrated hydrogeophysical modelling and data assimilation for geoelectrical leak detection. <i>Journal of Contaminant Hydrology</i> , 2020, 234, 103679.	3.3	29
9	Using Bayesian Networks for Sensitivity Analysis of Complex Biogeochemical Models. <i>Water Resources Research</i> , 2019, 55, 3541-3555.	4.2	23
10	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
11	Kilometer-Scale Hydrologic Exchange Flows in a Gravel Bed River Corridor and Their Implications to Solute Migration. <i>Water Resources Research</i> , 2020, 56, e2019WR025258.	4.2	19
12	Riverbed Hydrologic Exchange Dynamics in a Large Regulated River Reach. <i>Water Resources Research</i> , 2018, 54, 2715-2730.	4.2	17
13	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
14	A New Approach to Quantify Shallow Water Hydrologic Exchanges in a Large Regulated River Reach. <i>Water (Switzerland)</i> , 2017, 9, 703.	2.7	12
15	River Dynamics Control Transit Time Distributions and Biogeochemical Reactions in a Dam-Regulated River Corridor. <i>Water Resources Research</i> , 2020, 56, e2019WR026470.	4.2	12
16	Machine Learning Analysis of Hydrologic Exchange Flows and Transit Time Distributions in a Large Regulated River. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 648071.	3.4	10
17	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow Under Highly Dynamic Flow Conditions. <i>Water Resources Research</i> , 2022, 58, .	4.2	10
18	Temporal flow variations interact with spatial physical heterogeneity to impact solute transport in managed river corridors. <i>Journal of Contaminant Hydrology</i> , 2020, 235, 103713.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Groundwater characterization and monitoring at a complex industrial waste site using electrical resistivity imaging. <i>Hydrogeology Journal</i> , 2020, 28, 2115-2127.	2.1	7
20	Spatial Mapping of Riverbed Grain-Size Distribution Using Machine Learning. <i>Frontiers in Water</i> , 2020, 2, .	2.3	5
21	Modeling of streamflow in a 30â€™km long reach spanning 5 years using OpenFOAM 5.x. <i>Geoscientific Model Development</i> , 2022, 15, 2917-2947.	3.6	4
22	Hierarchical sensitivity analysis for simulating barrier island geomorphologic responses to future storms and sea-level rise. <i>Theoretical and Applied Climatology</i> , 2019, 136, 1495-1511.	2.8	3
23	Scale-dependent spatial variabilities of hydrological exchange flows and transit time in a large regulated river. <i>Journal of Hydrology</i> , 2021, 598, 126283.	5.4	3
24	High-Performance Simulation of Dynamic Hydrologic Exchange and Implications for Surrogate Flow and Reactive Transport Modeling in a Large River Corridor. <i>Frontiers in Water</i> , 2020, 2, .	2.3	2
25	Modeling framework for evaluating the impacts of hydrodynamic pressure on hydrologic exchange fluxes and residence time for a large-scale river section over a long-term period. <i>Environmental Modelling and Software</i> , 2022, 148, 105277.	4.5	2
26	A novel construct for scaling groundwaterâ€™river interactions based on machine-guided hydromorphic classification. <i>Environmental Research Letters</i> , 2021, 16, 104016.	5.2	1
27	Can Simple Machine Learning Tools Extend and Improve Temperature-Based Methods to Infer Streambed Flux?. <i>Water (Switzerland)</i> , 2021, 13, 2837.	2.7	0