

MÃ©lanie C Rochoux

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Towards predictive data-driven simulations of wildfire spread â€œ Part I: Reduced-cost Ensemble Kalman Filter based on a Polynomial Chaos surrogate model for parameter estimation. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2951-2973.	3.6	70
2	Towards predictive data-driven simulations of wildfire spread â€œ Part II: Ensemble Kalman Filter for the state estimation of a front-tracking simulator of wildfire spread. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1721-1739.	3.6	39
3	Evaluation of a data-driven wildland fire spread forecast model with spatially-distributed parameter estimation in simulations of the FireFlux I field-scale experiment. <i>Fire Safety Journal</i> , 2017, 91, 758-767.	3.1	24
4	Comparison of polynomial chaos and Gaussian process surrogates for uncertainty quantification and correlation estimation of spatially distributed open-channel steady flows. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1723-1741.	4.0	23
5	Ensemble-based data assimilation for operational flood forecasting â€œ On the merits of state estimation for 1D hydrodynamic forecasting through the example of the â€œAdour Maritimeâ€œ river. <i>Journal of Hydrology</i> , 2017, 552, 210-224.	5.4	21
6	Reduction of the uncertainties in the water level-discharge relation of a 1D hydraulic model in the context of operational flood forecasting. <i>Journal of Hydrology</i> , 2016, 532, 52-64.	5.4	20
7	Assimilation of wide-swath altimetry water elevation anomalies to correct large-scale river routing model parameters. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2207-2233.	4.9	17
8	Data assimilation applied to combustion. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 266-276.	2.1	16
9	On the merits of sparse surrogates for global sensitivity analysis of multi-scale nonlinear problems: Application to turbulence and fire-spotting model in wildland fire simulators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 120-145.	3.3	16
10	Temporal Variance-Based Sensitivity Analysis of the River-Routing Component of the Large-Scale Hydrological Model ISBAâ€™TRIP: Application on the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2016, 17, 3007-3027.	1.9	11
11	State-parameter estimation approach for data-driven wildland fire spread modeling: Application to the 2012 RxCADRE S5 field-scale experiment. <i>Fire Safety Journal</i> , 2019, 105, 286-299.	3.1	9
12	Polynomial Surrogates for Open-Channel Flows in Random Steady State. <i>Environmental Modeling and Assessment</i> , 2018, 23, 309-331.	2.2	8
13	Subgrid-scale fire front reconstruction for ensemble coupled atmosphere-fire simulations of the FireFlux I experiment. <i>Fire Safety Journal</i> , 2021, 126, 103475.	3.1	7
14	Subgrid-Scale Variability for Thermodynamic Variables in an Offline Land Surface Prediction System. <i>Journal of Hydrometeorology</i> , 2016, 17, 171-193.	1.9	6
15	Ensemble-based algorithm for error reduction in hydraulics in the context of flood forecasting. <i>E3S Web of Conferences</i> , 2016, 7, 18022.	0.5	2
16	Orthorectification of Helicopter-Borne High Resolution Experimental Burn Observation from Infra Red Handheld Imagers. <i>Remote Sensing</i> , 2021, 13, 4913.	4.0	2