Carlo Albert

List of Publications by Year
in descending order

23 papers	830 citations	840776 11 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	925 citing authors

#	ARTICLE	IF	CITATIONS
1	Can Stochastic Resonance Explain Recurrence of Grand Minima?. Astrophysical Journal Letters, 2021, 916, L9.	8.3	6
2	Second-order phase transition in phytoplankton trait dynamics. Chaos, 2020, 30, 053109.	2.5	4
3	Data Assimilation and Online Parameter Optimization in Groundwater Modeling Using Nested Particle Filters. Water Resources Research, 2019, 55, 9724-9747.	4.2	11
4	Signatureâ€Domain Calibration of Hydrological Models Using Approximate Bayesian Computation: Theory and Comparison to Existing Applications. Water Resources Research, 2018, 54, 4059-4083.	4.2	32
5	Signatureâ€Domain Calibration of Hydrological Models Using Approximate Bayesian Computation: Empirical Analysis of Fundamental Properties. Water Resources Research, 2018, 54, 3958-3987.	4.2	32
6	Accelerating Bayesian inference in hydrological modeling with a mechanistic emulator. Environmental Modelling and Software, 2018, 109, 66-79.	4.5	9
7	Appraisal of data-driven and mechanistic emulators of nonlinear simulators: The case of hydrodynamic urban drainage models. Environmental Modelling and Software, 2017, 92, 17-27.	4.5	27
8	Emulation of dynamic simulators with application to hydrology. Journal of Computational Physics, 2016, 313, 352-366.	3.8	10
9	Boosting Bayesian parameter inference of nonlinear stochastic differential equation models by Hamiltonian scale separation. Physical Review E, 2016, 93, 043313.	2.1	10
10	Describing the catchmentâ€averaged precipitation as a stochastic process improves parameter and input estimation. Water Resources Research, 2016, 52, 3162-3186.	4.2	37
11	Fast mechanism-based emulator of a slow urban hydrodynamic drainage simulator. Environmental Modelling and Software, 2016, 78, 54-67.	4.5	14
12	Big data naturally rescaled. Chaos, Solitons and Fractals, 2016, 90, 81-90.	5.1	8
13	Computationally Efficient Implementation of a Novel Algorithm for the General Unified Threshold Model of Survival (GUTS). PLoS Computational Biology, 2016, 12, e1004978.	3.2	8
14	Model bias and complexity â€" Understanding the effects of structural deficits and input errors on runoff predictions. Environmental Modelling and Software, 2015, 64, 205-214.	4.5	33
15	A simulated annealing approach to approximate Bayes computations. Statistics and Computing, 2015, 25, 1217-1232.	1.5	31
16	Response to: â€œCritical Analysis of a Hypothesis of the Planetary Tidal Influence on Solar Activityâ€•by S. Poluianov and I. Usoskin. Solar Physics, 2014, 289, 2343-2344.	2.5	6
17	The effect of ambiguous prior knowledge on Bayesian model parameter inference and prediction. Environmental Modelling and Software, 2014, 62, 300-315.	4.5	10
18	Improving uncertainty estimation in urban hydrological modeling by statistically describing bias. Hydrology and Earth System Sciences, 2013, 17, 4209-4225.	4.9	82

#	ARTICLE	IF	CITATIONS
19	A mechanistic dynamic emulator. Nonlinear Analysis: Real World Applications, 2012, 13, 2747-2754.	1.7	9
20	Bayesian experimental design for a toxicokineticâ€"toxicodynamic model. Journal of Statistical Planning and Inference, 2012, 142, 263-275.	0.6	20
21	General Unified Threshold Model of Survival - a Toxicokinetic-Toxicodynamic Framework for Ecotoxicology. Environmental Science & Technology, 2011, 45, 2529-2540.	10.0	341
22	Toxicokineticâ€"toxicodynamic modeling of quantal and graded sublethal endpoints: A brief discussion of concepts. Environmental Toxicology and Chemistry, 2011, 30, 2519-2524.	4.3	77
23	Magnetism and the Weiss Exchange Field-A Theoretical Analysis Motivated by Recent Experiments. Journal of Statistical Physics, 2006, 125, 77-124.	1.2	9