

# Carlo Albert

## List of Publications by Year in descending order

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Version: 2024-02-01

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	General Unified Threshold Model of Survival - a Toxicokinetic-Toxicodynamic Framework for Ecotoxicology. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2529-2540.	10.0	341
2	Improving uncertainty estimation in urban hydrological modeling by statistically describing bias. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4209-4225.	4.9	82
3	Toxicokinetic-toxicodynamic modeling of quantal and graded sublethal endpoints: A brief discussion of concepts. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 2519-2524.	4.3	77
4	Describing the catchment-averaged precipitation as a stochastic process improves parameter and input estimation. <i>Water Resources Research</i> , 2016, 52, 3162-3186.	4.2	37
5	Model bias and complexity – Understanding the effects of structural deficits and input errors on runoff predictions. <i>Environmental Modelling and Software</i> , 2015, 64, 205-214.	4.5	33
6	Signature-Domain Calibration of Hydrological Models Using Approximate Bayesian Computation: Theory and Comparison to Existing Applications. <i>Water Resources Research</i> , 2018, 54, 4059-4083.	4.2	32
7	Signature-Domain Calibration of Hydrological Models Using Approximate Bayesian Computation: Empirical Analysis of Fundamental Properties. <i>Water Resources Research</i> , 2018, 54, 3958-3987.	4.2	32
8	A simulated annealing approach to approximate Bayes computations. <i>Statistics and Computing</i> , 2015, 25, 1217-1232.	1.5	31
9	Appraisal of data-driven and mechanistic emulators of nonlinear simulators: The case of hydrodynamic urban drainage models. <i>Environmental Modelling and Software</i> , 2017, 92, 17-27.	4.5	27
10	Bayesian experimental design for a toxicokinetic-toxicodynamic model. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 263-275.	0.6	20
11	Fast mechanism-based emulator of a slow urban hydrodynamic drainage simulator. <i>Environmental Modelling and Software</i> , 2016, 78, 54-67.	4.5	14
12	Data Assimilation and Online Parameter Optimization in Groundwater Modeling Using Nested Particle Filters. <i>Water Resources Research</i> , 2019, 55, 9724-9747.	4.2	11
13	The effect of ambiguous prior knowledge on Bayesian model parameter inference and prediction. <i>Environmental Modelling and Software</i> , 2014, 62, 300-315.	4.5	10
14	Emulation of dynamic simulators with application to hydrology. <i>Journal of Computational Physics</i> , 2016, 313, 352-366.	3.8	10
15	Boosting Bayesian parameter inference of nonlinear stochastic differential equation models by Hamiltonian scale separation. <i>Physical Review E</i> , 2016, 93, 043313.	2.1	10
16	Magnetism and the Weiss Exchange Field-A Theoretical Analysis Motivated by Recent Experiments. <i>Journal of Statistical Physics</i> , 2006, 125, 77-124.	1.2	9
17	A mechanistic dynamic emulator. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 2747-2754.	1.7	9
18	Accelerating Bayesian inference in hydrological modeling with a mechanistic emulator. <i>Environmental Modelling and Software</i> , 2018, 109, 66-79.	4.5	9

#	ARTICLE	IF	CITATIONS
19	Big data naturally rescaled. <i>Chaos, Solitons and Fractals</i> , 2016, 90, 81-90.	5.1	8
20	Computationally Efficient Implementation of a Novel Algorithm for the General Unified Threshold Model of Survival (GUTS). <i>PLoS Computational Biology</i> , 2016, 12, e1004978.	3.2	8
21	Response to: "Critical Analysis of a Hypothesis of the Planetary Tidal Influence on Solar Activity" by S. Poluianov and I. Usoskin. <i>Solar Physics</i> , 2014, 289, 2343-2344.	2.5	6
22	Can Stochastic Resonance Explain Recurrence of Grand Minima?. <i>Astrophysical Journal Letters</i> , 2021, 916, L9.	8.3	6
23	Second-order phase transition in phytoplankton trait dynamics. <i>Chaos</i> , 2020, 30, 053109.	2.5	4