

Xiaoliang Wan

List of Publications by Year in descending order

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34
papers

1,864
citations

567281

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414414

32
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34
docs citations

34
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive deep density approximation for Fokker-Planck equations. <i>Journal of Computational Physics</i> , 2022, 457, 111080.	3.8	13
2	Exploring the use of machine learning to parameterize vertical mixing in the ocean surface boundary layer. <i>Ocean Modelling</i> , 2022, 176, 102059.	2.4	5
3	A Minimum Action Method for Dynamical Systems with Constant Time Delays. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A541-A565.	2.8	2
4	Deep density estimation via invertible block-triangular mapping. <i>Theoretical and Applied Mechanics Letters</i> , 2020, 10, 143-148.	2.8	10
5	Coupling the reduced-order model and the generative model for an importance sampling estimator. <i>Journal of Computational Physics</i> , 2020, 408, 109281.	3.8	6
6	NUMERICAL APPROXIMATION OF ELLIPTIC PROBLEMS WITH LOG-NORMAL RANDOM COEFFICIENTS. , 2019, 9, 161-186.		0
7	Asymptotically Efficient Simulation of Elliptic Problems with Small Random Forcing. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A548-A572.	2.8	0
8	Horizontal Dispersion of Buoyant Materials in the Ocean Surface Boundary Layer. <i>Journal of Physical Oceanography</i> , 2018, 48, 2103-2125.	1.7	30
9	Convergence Analysis of a Finite Element Approximation of Minimum Action Methods. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1597-1620.	2.3	9
10	An Hp-Adaptive Minimum Action Method Based on a Posteriori Error Estimate. <i>Communications in Computational Physics</i> , 2018, 23, .	1.7	3
11	A dynamic-solver-consistent minimum action method: With an application to 2D Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2017, 331, 209-226.	3.8	13
12	A Minimum Action Method with Optimal Linear Time Scaling. <i>Communications in Computational Physics</i> , 2015, 18, 1352-1379.	1.7	7
13	Adaptive multi-element polynomial chaos with discrete measure: Algorithms and application to SPDEs. <i>Applied Numerical Mathematics</i> , 2015, 90, 91-110.	2.1	18
14	Model the nonlinear instability of wall-bounded shear flows as a rare event: a study on two-dimensional Poiseuille flow. <i>Nonlinearity</i> , 2015, 28, 1409-1440.	1.4	9
15	Effect of Uncertainty in Blowing Ratio on Film Cooling Effectiveness. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	19
16	Hybrid parallel computing of minimum action method. <i>Parallel Computing</i> , 2013, 39, 638-651.	2.1	12
17	A minimum action method for small random perturbations of two-dimensional parallel shear flows. <i>Journal of Computational Physics</i> , 2013, 235, 497-514.	3.8	8
18	The Wick-Malliavin Approximation of Elliptic Problems with Log-Normal Random Coefficients. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2370-A2392.	2.8	6

#	ARTICLE	IF	CITATIONS
19	A Discussion on Two Stochastic Elliptic Modeling Strategies. <i>Communications in Computational Physics</i> , 2012, 11, 775-796.	1.7	3
20	An adaptive high-order minimum action method. <i>Journal of Computational Physics</i> , 2011, 230, 8669-8682.	3.8	20
21	Stochastic bifurcation analysis of Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2010, 650, 391-413.	3.4	51
22	Elliptic equations of higher stochastic order. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2010, 44, 1135-1153.	1.9	12
23	A note on stochastic elliptic models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2987-2995.	6.6	9
24	A stochastic modeling methodology based on weighted Wiener chaos and Malliavin calculus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14189-14194.	7.1	26
25	Solving elliptic problems with non-Gaussian spatially-dependent random coefficients. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 1985-1995.	6.6	33
26	The multi-element probabilistic collocation method (ME-PCM): Error analysis and applications. <i>Journal of Computational Physics</i> , 2008, 227, 9572-9595.	3.8	191
27	Stochastic low-dimensional modelling of a random laminar wake past a circular cylinder. <i>Journal of Fluid Mechanics</i> , 2008, 606, 339-367.	3.4	47
28	Stochastic Computational Fluid Mechanics. <i>Computing in Science and Engineering</i> , 2007, 9, 21-29.	1.2	155
29	Multi-Element Generalized Polynomial Chaos for Arbitrary Probability Measures. <i>SIAM Journal of Scientific Computing</i> , 2006, 28, 901-928.	2.8	381
30	Long-term behavior of polynomial chaos in stochastic flow simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 5582-5596.	6.6	134
31	Beyond Wiener's Askey Expansions: Handling Arbitrary PDFs. <i>Journal of Scientific Computing</i> , 2006, 27, 455-464.	2.3	109
32	A sharp error estimate for the fast Gauss transform. <i>Journal of Computational Physics</i> , 2006, 219, 7-12.	3.8	14
33	An adaptive multi-element generalized polynomial chaos method for stochastic differential equations. <i>Journal of Computational Physics</i> , 2005, 209, 617-642.	3.8	474
34	Stochastic Solutions for the Two-Dimensional Advection-Diffusion Equation. <i>SIAM Journal of Scientific Computing</i> , 2004, 26, 578-590.	2.8	35