Guannan Zhang

List of Publications by Year
in descending order

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34	686	623574	552653
papers	citations	14 h-index	26 g-index

37	37	37	535
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stochastic finite element methods for partial differential equations with random input data. Acta Numerica, 2014, 23, 521-650.	6.3	156
2	An adaptive sparse-grid high-order stochastic collocation method for Bayesian inference in groundwater reactive transport modeling. Water Resources Research, 2013, 49, 6871-6892.	1.7	72
3	A Stable Multistep Scheme for Solving Backward Stochastic Differential Equations. SIAM Journal on Numerical Analysis, 2010, 48, 1369-1394.	1.1	57
4	A Taylor Expansionâ€Based Adaptive Design Strategy for Global Surrogate Modeling With Applications in Groundwater Modeling. Water Resources Research, 2017, 53, 10802-10823.	1.7	40
5	Robust data-driven approach for predicting the configurational energy of high entropy alloys. Materials and Design, 2020, 185, 108247.	3.3	40
6	Error Analysis of a Stochastic Collocation Method for Parabolic Partial Differential Equations with Random Input Data. SIAM Journal on Numerical Analysis, 2012, 50, 1922-1940.	1.1	37
7	A generalized $heta$-scheme for solving backward stochastic differential equations. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 1585-1603.	0.5	37
8	A Sparse-Grid Method for Multi-Dimensional Backward Stochastic Differential Equations. Journal of Computational Mathematics, 2013, 31, 221-248.	0.2	34
9	An improved multilevel Monte Carlo method for estimating probability distribution functions in stochastic oil reservoir simulations. Water Resources Research, 2016, 52, 9642-9660.	1.7	25
10	Non-Intrusive Inference Reduced Order Model for Fluids Using Deep Multistep Neural Network. Mathematics, 2019, 7, 757.	1.1	22
11	Calibration of an agricultural-hydrological model (RZWQM2) using surrogate global optimization. Journal of Hydrology, 2017, 544, 456-466.	2.3	20
12	Analysis of quasi-optimal polynomial approximations for parameterized PDEs with deterministic and stochastic coefficients. Numerische Mathematik, 2017, 137, 451-493.	0.9	19
13	Hyperspherical Sparse Approximation Techniques for High-Dimensional Discontinuity Detection. SIAM Review, 2016, 58, 517-551.	4.2	18
14	An Adaptive Wavelet Stochastic Collocation Method for Irregular Solutions of Partial Differential Equations with Random Input Data. Lecture Notes in Computational Science and Engineering, 2014, , 137-170.	0.1	15
15	A Hybrid Sparse-Grid Approach for Nonlinear Filtering Problems Based on Adaptive-Domain of the Zakai Equation Approximations. SIAM-ASA Journal on Uncertainty Quantification, 2014, 2, 784-804.	1.1	14
16	A backward Monte-Carlo method for time-dependent runaway electron simulations. Physics of Plasmas, 2017, 24, .	0.7	14
17	Uncertainty analysis of multi-rate kinetics of uranium desorption from sediments. Journal of Contaminant Hydrology, 2014, 156, 1-15.	1.6	12
18	Reduced basis methods for nonlocal diffusion problems with random input data. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 746-770.	3.4	11

#	Article	IF	Citations
19	An adaptive sparse-grid iterative ensemble Kalman filter approach for parameter field estimation. International Journal of Computer Mathematics, 2014, 91, 798-817.	1.0	9
20	Explicit cost bounds of stochastic Galerkin approximations for parameterized PDEs with random coefficients. Computers and Mathematics With Applications, 2016, 71, 2231-2256.	1.4	7
21	A Domain Decomposition Model Reduction Method for Linear Convection-Diffusion Equations with Random Coefficients. SIAM Journal of Scientific Computing, 2019, 41, A1984-A2011.	1.3	6
22	Numerical methods for a class of nonlocal diffusion problems with the use of backward SDEs. Computers and Mathematics With Applications, 2016, 71, 2479-2496.	1.4	5
23	A fluid-kinetic framework for self-consistent runaway-electron simulations. Physics of Plasmas, 2018, 25, 062507.	0.7	5
24	Accelerating reinforcement learning with a Directional-Gaussian-Smoothing evolution strategy. Electronic Research Archive, 2021, 29, 4119-4135.	0.4	3
25	A Sparse Grid Method for Bayesian Uncertainty Quantification with Application to Large Eddy Simulation Turbulence Models. Lecture Notes in Computational Science and Engineering, 2016, , 291-313.	0.1	3
26	A Feynman-Kac based numerical method for the exit time probability of a class of transport problems. Journal of Computational Physics, 2021, 444, 110564.	1.9	1
27	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2017, , 717-762.		1
28	Blackbox optimization for approximating high-fidelity heat transfer calculations in metal additive manufacturing. Results in Materials, 2022, 13, 100258.	0.9	1
29	Model calibration of the liquid mercury spallation target using evolutionary neural networks and sparse polynomial expansions. Nuclear Instruments & Methods in Physics Research B, 2022, 525, 41-54.	0.6	1
30	An efficient surrogate modeling approach in Bayesian uncertainty analysis. , 2013, , .		0
31	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2015, , 1-46.		0
32	An Improved Discrete Least-Squares/Reduced-Basis Method for Parameterized Elliptic PDEs. Journal of Scientific Computing, 2019, 81, 76-91.	1.1	0
33	AN EFFICIENT MESH-FREE IMPLICIT FILTER FOR NONLINEAR FILTERING PROBLEMS. , 2016, 6, 19-33.		0
34	A nonâ€intrusive domainâ€decomposition model reduction method for linear steadyâ€state partial differential equations with random coefficients. Numerical Methods for Partial Differential Equations, 2022, 38, 1993-2011.	2.0	0