Lijian Jiang

List of Publications by Year
in descending order

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40	290	840776 11	996975 15
papers	citations	h-index	g-index

41	41	41	152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of global multiscale finite element methods for wave equations with continuum spatial scales. Applied Numerical Mathematics, 2010, 60, 862-876.	2.1	25
2	Mixed multiscale finite element methods using approximate global information based on partial upscaling. Computational Geosciences, 2010, 14, 319-341.	2.4	18
3	Model's sparse representation based on reduced mixed GMsFE basis methods. Journal of Computational Physics, 2017, 338, 285-312.	3.8	17
4	A stochastic dimension reduction multiscale finite element method for groundwater flow problems in heterogeneous random porous media. Journal of Hydrology, 2013, 478, 77-88.	5.4	16
5	Least-squares mixed generalized multiscale finite element method. Computer Methods in Applied Mechanics and Engineering, 2016, 311, 764-787.	6.6	15
6	A reduced order method for Allenâ€“Cahn equations. Journal of Computational and Applied Mathematics, 2016, 292, 213-229.	2.0	15
7	Multiscale model reduction method for Bayesian inverse problems of subsurface flow. Journal of Computational and Applied Mathematics, 2017, 319, 188-209.	2.0	14
8	Multiscale methods for parabolic equations with continuum spatial scales. Discrete and Continuous Dynamical Systems - Series B, 2007, 8, 833-859.	0.9	13
9	A priori estimates for two multiscale finite element methods using multiple global fields to wave equations. Numerical Methods for Partial Differential Equations, 2012, 28, 1869-1892.	3.6	11
10	Reduced multiscale finite element basis methods for elliptic PDEs with parameterized inputs. Journal of Computational and Applied Mathematics, 2016, 301, 101-120.	2.0	11
11	A Novel Variable-Separation Method Based on Sparse and Low Rank Representation for Stochastic Partial Differential Equations. SIAM Journal of Scientific Computing, 2017, 39, A2879-A2910.	2.8	11
12	Bayesian Inference Using Intermediate Distribution Based on Coarse Multiscale Model for Time Fractional Diffusion Equations. Multiscale Modeling and Simulation, 2018, 16, 327-355.	1.6	11
13	A Constraint Energy Minimizing Generalized Multiscale Finite Element Method for Parabolic Equations. Multiscale Modeling and Simulation, 2019, 17, 996-1018.	1.6	11
14	Multi-element least square HDMR methods and their applications for stochastic multiscale model reduction. Journal of Computational Physics, 2015, 294, 439-461.	3.8	10
15	Deep learning nonlinear multiscale dynamic problems using Koopman operator. Journal of Computational Physics, 2021, 446, 110660.	3.8	10
16	Correcting noisy dynamic mode decomposition with Kalman filters. Journal of Computational Physics, 2022, 461, 111175.	3.8	10
17	Mixed Multiscale Finite Volume Methods for Elliptic Problems in Two-Phase Flow Simulations. Communications in Computational Physics, 2012, 11, 19-47.	1.7	9
18	A two-stage ensemble Kalman filter based on multiscale model reduction for inverse problems in time fractional diffusion-wave equations. Journal of Computational Physics, 2018, 374, 300-330.	3.8	9

#	Article	IF	Citations
19	Convergence analysis of hybrid expanded mixed finite element method for elliptic equations. Computers and Mathematics With Applications, 2014, 68, 1205-1219.	2.7	7
20	A new biâ€fidelity model reduction method for Bayesian inverse problems. International Journal for Numerical Methods in Engineering, 2019, 119, 941-963.	2.8	5
21	ANALYSIS OF VARIANCE-BASED MIXED MULTISCALE FINITE ELEMENT METHOD AND APPLICATIONS IN STOCHASTIC TWO-PHASE FLOWS. , 2014, 4, 455-477.		4
22	A Low-Rank Approximated Multiscale Method for Pdes With Random Coefficients. Multiscale Modeling and Simulation, 2020, 18, 1595-1620.	1.6	4
23	A stochastic model reduction method for nonlinear unconfined flow with multiple random input fields. Stochastic Environmental Research and Risk Assessment, 2017, 31, 835-851.	4.0	3
24	Localâ€“global model reduction method for stochastic optimal control problems constrained by partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2018, 339, 514-541.	6.6	3
25	Identification of the reaction coefficient in time fractional diffusion equations. Journal of Computational and Applied Mathematics, 2019, 345, 295-309.	2.0	3
26	A multiscale virtual element method for elliptic problems in heterogeneous porous media. Journal of Computational Physics, 2019, 388, 394-415.	3.8	3
27	Model reduction for nonlinear multiscale parabolic problems using dynamic mode decomposition. International Journal for Numerical Methods in Engineering, 2020, 121, 3680-3701.	2.8	3
28	VARIABLE-SEPARATION BASED ITERATIVE ENSEMBLE SMOOTHER FOR BAYESIAN INVERSE PROBLEMS IN ANOMALOUS DIFFUSION REACTION MODELS. , 2019, 9, 245-273.		3
29	Analysis of stochastic mimetic finite difference methods and their applications in single-phase stochastic flows. Computer Methods in Applied Mechanics and Engineering, 2012, 217-220, 58-76.	6.6	2
30	Model reduction method using variable-separation for stochastic saddle point problems. Journal of Computational Physics, 2018, 354, 43-66.	3.8	2
31	A Reduced Generalized Multiscale Basis Method for Parametrized Groundwater Flow Problems in Heterogeneous Porous Media. Water Resources Research, 2019, 55, 2390-2406.	4.2	2
32	A hybrid model reduction method for stochastic parabolic optimal control problems. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113244.	6.6	2
33	Convergence analysis of constraint energy minimizing generalized multiscale finite element method for a linear stochastic parabolic partial differential equation driven by additive noises. Journal of Computational and Applied Mathematics, 2021, 389, 113328.	2.0	2
34	A two-stage variable-separation Kalman filter for data assimilation. Journal of Computational Physics, 2021, 434, 110244.	3.8	2
35	Mixed Multiscale Finite Volume Method for Reservoir Simulation in Porous Media with Non Local Features. , 2011, , .		1
36	An upscaling method using coefficient splitting and its applications to elliptic PDEs. Computers and Mathematics With Applications, 2013, 65, 712-730.	2.7	1

#	Article	IF	Citations
37	Implicit sampling for hierarchical Bayesian inversion and applications in fractional multiscale diffusion models. Journal of Computational and Applied Mathematics, 2020, 375, 112826.	2.0	1
38	Convergence analysis for GMsFEM approximation of elliptic eigenvalue problems. Journal of Computational and Applied Mathematics, 2018, 327, 109-126.	2.0	0
39	Variational Bayesian inversion for the reaction coefficient in space-time nonlocal diffusion equations. Advances in Computational Mathematics, 2021, 47, 1.	1.6	0
40	A residual-driven adaptive Gaussian mixture approximation for Bayesian inverse problems. Journal of Computational and Applied Mathematics, 2022, 399, 113707.	2.0	0