

Guanglian Li

List of Publications by Year in descending order

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papers

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933447

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179
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive GMsFEM for high-contrast flow problems. <i>Journal of Computational Physics</i> , 2014, 273, 54-76.	3.8	99
2	GENERALIZED MULTISCALE FINITE ELEMENT METHODS: OVERSAMPLING STRATEGIES. <i>International Journal for Multiscale Computational Engineering</i> , 2014, 12, 465-484.	1.2	79
3	Randomized Oversampling for Generalized Multiscale Finite Element Methods. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 482-501.	1.6	47
4	Hierarchical multiscale modeling for flows in fractured media using generalized multiscale finite element method. <i>GEM - International Journal on Geomathematics</i> , 2015, 6, 141-162.	1.6	43
5	Generalized multiscale finite element methods for problems in perforated heterogeneous domains. <i>Applicable Analysis</i> , 2016, 95, 2254-2279.	1.3	36
6	Generalized Multiscale Finite Element Methods. <i>Nonlinear Elliptic Equations. Communications in Computational Physics</i> , 2014, 15, 733-755.	1.7	32
7	A generalized multiscale finite element method for the Brinkman equation. <i>Journal of Computational and Applied Mathematics</i> , 2015, 280, 294-309.	2.0	16
8	Edge multiscale methods for elliptic problems with heterogeneous coefficients. <i>Journal of Computational Physics</i> , 2019, 396, 228-242.	3.8	16
9	On the Convergence Rates of GMsFEMs for Heterogeneous Elliptic Problems Without Oversampling Techniques. <i>Multiscale Modeling and Simulation</i> , 2019, 17, 593-619.	1.6	14
10	Error analysis of a variational multiscale stabilization for convection-dominated diffusion equations in two dimensions. <i>IMA Journal of Numerical Analysis</i> , 2018, 38, 1229-1253.	2.9	13
11	On the degree of ill-posedness of multi-dimensional magnetic particle imaging. <i>Inverse Problems</i> , 2018, 34, 095006.	2.0	10
12	On the Decay Rate of the Singular Values of Bivariate Functions. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 974-993.	2.3	9
13	Homogenization of High-Contrast Brinkman Flows. <i>Multiscale Modeling and Simulation</i> , 2015, 13, 472-490.	1.6	5
14	An Edge Multiscale Interior Penalty Discontinuous Galerkin method for heterogeneous Helmholtz problems with large varying wavenumber. <i>Journal of Computational Physics</i> , 2021, 441, 110387.	3.8	4
15	Sparse Generalized Multiscale Finite Element Methods and their applications. <i>International Journal for Multiscale Computational Engineering</i> , 2015, , .	1.2	4
16	Low-Rank Approximation to Heterogeneous Elliptic Problems. <i>Multiscale Modeling and Simulation</i> , 2018, 16, 477-502.	1.6	2
17	Homogenization of time-fractional diffusion equations with periodic coefficients. <i>Journal of Computational Physics</i> , 2020, 408, 109231.	3.8	2
18	Wavelet-based edge multiscale parareal algorithm for parabolic equations with heterogeneous coefficients and rough initial data. <i>Journal of Computational Physics</i> , 2021, 444, 110572.	3.8	2

#	ARTICLE	IF	CITATIONS
19	Wavelet-based Edge Multiscale Finite Element Method for Helmholtz problems in perforated domains. Multiscale Modeling and Simulation, 2021, 19, 1684-1709.	1.6	2
20	Multiscale Modeling of High Contrast Brinkman Equations with Applications to Deformable Porous Media., 2013, , .		1
21	A Convergent Adaptive Finite Element Method for Cathodic Protection. Computational Methods in Applied Mathematics, 2017, 17, 105-120.	0.8	1
22	Upscaled HDG Methods for Brinkman Equations with High-Contrast Heterogeneous Coefficient. Journal of Scientific Computing, 2018, 77, 1780-1800.	2.3	1
23	Quasi-optimality of an Adaptive Finite Element Method for Cathodic Protection. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1645-1665.	1.9	0
24	On Metrics for Computation of Strength of Coupling in Multiphysics Simulations. The IMA Volumes in Mathematics and Its Applications, 2016, , 137-176.	0.5	0