

Xiao-Hui Wu

List of Publications by Year in descending order

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13
papers

2,536
citations

1163117

8
h-index

1588992

8
g-index

13
all docs

13
docs citations

13
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multiscale Finite Element Method for Elliptic Problems in Composite Materials and Porous Media. Journal of Computational Physics, 1997, 134, 169-189.	3.8	1,458
2	Convergence of a multiscale finite element method for elliptic problems with rapidly oscillating coefficients. Mathematics of Computation, 1999, 68, 913-944.	2.1	467
3	Convergence of a Nonconforming Multiscale Finite Element Method. SIAM Journal on Numerical Analysis, 2000, 37, 888-910.	2.3	242
4	Multiscale finite element methods for high-contrast problems using local spectral basis functions. Journal of Computational Physics, 2011, 230, 937-955.	3.8	203
5	Removing the Cell Resonance Error in the Multiscale Finite Element Method via a Petrov-Galerkin Formulation. Communications in Mathematical Sciences, 2004, 2, 185-205.	1.0	77
6	Grid adaptation for the Dirichlet-Neumann representation method and the multiscale mixed finite-element method. Computational Geosciences, 2014, 18, 357-372.	2.4	32
7	Upscaled modeling of well singularity for simulating flow in heterogeneous formations. Computational Geosciences, 2008, 12, 29-45.	2.4	23
8	Global Scale-up on Reservoir Models with Piecewise Constant Permeability Field. Journal of Algorithms and Computational Technology, 2008, 2, 223-248.	0.7	11
9	Reservoir Modeling With Global Scaleup. , 2007, , .		10
10	An Accurate Multiphase Upscaling for Flow and Transport in Heterogeneous Porous Media. , 2007, , .		4
11	Validation of a Non-Uniform Coarsening and Upscaling Framework. , 2019, , .		4
12	Challenges and Solutions in Global-Flow-Based Scaleup of Permeability: Isolated Flow Bodies. , 2007, , .		3
13	A Dirichlet Neumann Representation Method for Simulating Flow in Reservoirs. , 2011, , .		2