

# Gergina Pencheva

## List of Publications by Year in descending order

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12  
papers

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#	ARTICLE	IF	CITATIONS
1	Error indicators for incompressible Darcy Flow problems using Enhanced Velocity Mixed Finite Element Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 363, 112884.	6.6	10
2	Adaptive mesh refinement with an enhanced velocity mixed finite element method on semi-structured grids using a fully coupled solver. <i>Computational Geosciences</i> , 2019, 23, 149-168.	2.4	10
3	A Global Jacobian Method for Mortar Discretizations of Nonlinear Porous Media Flows. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A522-A542.	2.8	11
4	A Global Jacobian Method for Mortar Discretizations of a Fully Implicit Two-Phase Flow Model. <i>Multiscale Modeling and Simulation</i> , 2014, 12, 1401-1423.	1.6	19
5	A Multiscale Mortar Method And Two-Stage Preconditioner For Multiphase Flow Using A Global Jacobian Approach. , 2014, , .		2
6	A parallel ensemble-based framework for reservoir history matching and uncertainty characterization. <i>Computational Geosciences</i> , 2013, 17, 83-97.	2.4	7
7	Enabling High-Performance Computing as a Service. <i>Computer</i> , 2012, 45, 72-80.	1.1	43
8	A Frozen Jacobian Multiscale Mortar Preconditioner for Nonlinear Interface Operators. <i>Multiscale Modeling and Simulation</i> , 2012, 10, 853-873.	1.6	18
9	Multi-level Parallelization of Ensemble Kalman Filter for Reservoir History Matching. , 2011, , .		7
10	Interior superconvergence in mortar and non-mortar mixed finite element methods on non-matching grids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 4307-4318.	6.6	1
11	A Multiscale Mortar Mixed Finite Element Method. <i>Multiscale Modeling and Simulation</i> , 2007, 6, 319-346.	1.6	244
12	Balancing domain decomposition for mortar mixed finite element methods. <i>Numerical Linear Algebra With Applications</i> , 2003, 10, 159-180.	1.6	36