

# Gergina Pencheva

## List of Publications by Year in descending order

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12  
papers

408  
citations

1163117

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1372567

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docs citations

12  
times ranked

288  
citing authors

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