

Sandra Pieraccini

List of Publications by Year in descending order

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45
papers

1,052
citations

471509

17
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	The virtual element method for discrete fracture network simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 280, 135-156.	6.6	163
2	Implicit-Explicit Schemes for BGK Kinetic Equations. <i>Journal of Scientific Computing</i> , 2007, 32, 1-28.	2.3	143
3	A hybrid mortar virtual element method for discrete fracture network simulations. <i>Journal of Computational Physics</i> , 2016, 306, 148-166.	3.8	91
4	Order preserving SUPG stabilization for the virtual element formulation of advection-diffusion problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 311, 18-40.	6.6	83
5	A PDE-Constrained Optimization Formulation for Discrete Fracture Network Flows. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, B487-B510.	2.8	78
6	An optimization approach for large scale simulations of discrete fracture network flows. <i>Journal of Computational Physics</i> , 2014, 256, 838-853.	3.8	63
7	On Simulations of Discrete Fracture Network Flows with an Optimization-Based Extended Finite Element Method. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A908-A935.	2.8	57
8	A Parallel Solver for Large Scale DFN Flow Simulations. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, C285-C306.	2.8	54
9	Towards effective flow simulations in realistic discrete fracture networks. <i>Journal of Computational Physics</i> , 2016, 310, 181-201.	3.8	31
10	Uncertainty Quantification in Discrete Fracture Network Models: Stochastic Geometry. <i>Water Resources Research</i> , 2018, 54, 1338-1352.	4.2	26
11	Uncertainty quantification in Discrete Fracture Network models: Stochastic fracture transmissivity. <i>Computers and Mathematics With Applications</i> , 2015, 70, 603-623.	2.7	25
12	Flow simulations in porous media with immersed intersecting fractures. <i>Journal of Computational Physics</i> , 2017, 345, 768-791.	3.8	22
13	Non-stationary transport phenomena in networks of fractures: Effective simulations and stochastic analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 315, 1098-1112.	6.6	20
14	Constrained Dogleg methods for nonlinear systems with simple bounds. <i>Computational Optimization and Applications</i> , 2012, 53, 771-794.	1.6	19
15	Simulation of the Steady-State Flow in Discrete Fracture Networks with Non-Conforming Meshes and Extended Finite Elements. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 2171-2182.	5.4	19
16	Unsteady advection-diffusion simulations in complex Discrete Fracture Networks with an optimization approach. <i>Journal of Hydrology</i> , 2018, 566, 332-345.	5.4	18
17	Microscopically implicit-macroscopically explicit schemes for the BGK equation. <i>Journal of Computational Physics</i> , 2012, 231, 299-327.	3.8	17
18	Advanced computation of steady-state fluid flow in Discrete Fracture-Matrix models: FEM-BEM and VEM-VEM fracture-block coupling. <i>GEM - International Journal on Geomathematics</i> , 2018, 9, 377-399.	1.6	14

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19	Global Newton-type methods and semismooth reformulations for NCP. <i>Applied Numerical Mathematics</i> , 2003, 44, 367-384.	2.1	10
20	Multilevel Monte Carlo Predictions of First Passage Times in Three-dimensional Discrete Fracture Networks: A Graph-based Approach. <i>Water Resources Research</i> , 2020, 56, e2019WR026493.	4.2	10
21	Iterative coupling algorithms for large multidomain problems with the boundary element method. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 1-14.	2.8	9
22	Uncertainty quantification of discontinuous outputs via a non-intrusive bifidelity strategy. <i>Journal of Computational Physics</i> , 2019, 398, 108885.	3.8	9
23	On affine-scaling inexact dogleg methods for bound-constrained nonlinear systems. <i>Optimization Methods and Software</i> , 2015, 30, 276-300.	2.4	8
24	Uncertainty quantification analysis in discrete fracture network flow simulations. <i>GEM - International Journal on Geomathematics</i> , 2020, 11, 1.	1.6	8
25	Multi-Objective Optimisation of an Aerostatic Pad: Design of Position, Number and Diameter of the Supply Holes. <i>Journal of Mechanics</i> , 2020, 36, 347-360.	1.4	7
26	Coupling traffic models on networks and urban dispersion models for simulating sustainable mobility strategies. <i>Computers and Mathematics With Applications</i> , 2012, 64, 1975-1991.	2.7	6
27	The Virtual Element Method for large scale Discrete Fracture Network simulations: fracture-independent mesh generation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 19-22.	0.2	5
28	A Three-field Based Optimization Formulation for Flow Simulations in Networks of Fractures on Nonconforming Meshes. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, B381-B404.	2.8	5
29	Machine learning for flux regression in discrete fracture networks. <i>GEM - International Journal on Geomathematics</i> , 2021, 12, 1.	1.6	5
30	Graph-Informed Neural Networks for Regressions on Graph-Structured Data. <i>Mathematics</i> , 2022, 10, 786.	2.2	5
31	Convergence Analysis of an Inexact Infeasible Interior Point Method for Semidefinite Programming. <i>Computational Optimization and Applications</i> , 2004, 29, 289-313.	1.6	4
32	An Infeasible Interior-Point Method with Nonmonotonic Complementarity Gaps. <i>Optimization Methods and Software</i> , 2002, 17, 561-586.	2.4	3
33	On a PDE-Constrained Optimization Approach for Flow Simulations in Fractured Media. <i>SEMA SIMAI Springer Series</i> , 2016, , 27-45.	0.7	3
34	Discontinuous boundary elements for steady-state fluid flow problems in discrete fracture networks. <i>Advances in Water Resources</i> , 2022, 161, 104125.	3.8	3
35	Hybrid Newton-Type Method for a Class of Semismooth Equations. <i>Journal of Optimization Theory and Applications</i> , 2002, 112, 381-402.	1.5	2
36	THE VIRTUAL ELEMENT METHOD FOR DISCRETE FRACTURE NETWORK FLOW AND TRANSPORT SIMULATIONS. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	Layer-wise relevance propagation for backbone identification in discrete fracture networks. Journal of Computational Science, 2021, 55, 101458.	2.9	2
38	Implicit residual smoothing in a parallel 2d explicit euler solver. International Journal of Computer Mathematics, 1999, 72, 313-324.	1.8	1
39	Velocity Discretization in Numerical Schemes for BCK Equations. , 2008, , 857-864.		1
40	NUMERICAL SIMULATION OF MODELS FOR REACTING POLYTROPIC GASES. , 2006, , .		1
41	Numerical solution of KKT systems in PDE-constrained optimization problems via the affine scaling trust-region approach. International Journal of Computer Mathematics, 2009, 86, 2122-2142.	1.8	0
42	Photon transport in a time-dependent interstellar cloud. Mathematical Methods in the Applied Sciences, 2010, 33, 1245-1256.	2.3	0
43	The Virtual Element Method for the Transport of Passive Scalars in Discrete Fracture Networks. Lecture Notes in Computational Science and Engineering, 2019, , 501-508.	0.3	0
44	New Strategies for the Simulation of the Flow in Three Dimensional Poro-Fractured Media. Lecture Notes in Computational Science and Engineering, 2019, , 715-723.	0.3	0
45	NUMERICAL SIMULATIONS OF A REACTING GAS MIXTURE AT THE HYDRODYNAMIC SCALE. , 2004, , .		0