

Stefano Micheletti

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

842
citations

471371

17
h-index

501076

28
g-index

50
all docs

50
docs citations

50
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient modeling of multimode guided acoustic wave propagation in deformed pipelines by hierarchical model reduction. <i>Applied Numerical Mathematics</i> , 2022, 173, 329-344.	1.2	2
2	Wavelet-Fourier CORSING techniques for multidimensional advection-diffusion-reaction equations. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 2744-2781.	1.5	3
3	A dimension-reduction model for brittle fractures on thin shells with mesh adaptivity. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 37-81.	1.7	6
4	An optimization algorithm for automatic structural design. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113335.	3.4	10
5	Anisotropic Adapted Meshes for Image Segmentation: Application to Three-Dimensional Medical Data. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 2189-2212.	1.3	6
6	Compliance-stress constrained mass minimization for topology optimization on anisotropic meshes. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	9
7	Density-Based Inverse Homogenization with Anisotropically Adapted Elements. <i>Lecture Notes in Computational Science and Engineering</i> , 2020, , 211-221.	0.1	3
8	Mesh adaptation-aided image segmentation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 74, 147-166.	1.7	5
9	Topology optimization driven by anisotropic mesh adaptation: Towards a free-form design. <i>Computers and Structures</i> , 2019, 214, 60-72.	2.4	22
10	POD-assisted strategies for structural topology optimization. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2804-2820.	1.4	18
11	Parameter identification for the linear wave equation with Robin boundary condition. <i>Journal of Inverse and Ill-Posed Problems</i> , 2019, 27, 25-41.	0.5	1
12	Anisotropic mesh adaptation for the generalized Ambrosio-Tortorelli functional with application to brittle fracture. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2134-2152.	1.4	7
13	Reconstruction of a piecewise constant conductivity on a polygonal partition via shape optimization in EIT. <i>Journal of Computational Physics</i> , 2018, 353, 264-280.	1.9	22
14	Anisotropic mesh adaptation for crack propagation induced by a thermal shock in 2D. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 331, 138-158.	3.4	22
15	Effects of the Anisotropy of the Fault Zone Permeability on the Timing of Triggered Earthquakes: Insights from 3D-Coupled Fluid Flow and Geomechanical Deformation Modeling. <i>Pure and Applied Geophysics</i> , 2018, 175, 4131-4144.	0.8	6
16	A theoretical study of COmpRessed SolVING for advection-diffusion-reaction problems. <i>Mathematics of Computation</i> , 2017, 87, 1-38.	1.1	12
17	CMFWI: Coupled Multiscenario Full Waveform Inversion. <i>Inverse Problems in Science and Engineering</i> , 2017, 25, 939-964.	1.2	1
18	An upscaling procedure for fractured reservoirs with embedded grids. <i>Water Resources Research</i> , 2016, 52, 6506-6525.	1.7	64

#	ARTICLE	IF	CITATIONS
19	Anisotropic Mesh Adaptation for Crack Detection In Brittle Materials. SIAM Journal of Scientific Computing, 2015, 37, B633-B659.	1.3	68
20	Compressed solving: A numerical approximation technique for elliptic PDEs based on Compressed Sensing. Computers and Mathematics With Applications, 2015, 70, 1306-1335.	1.4	12
21	The Benefits of Anisotropic Mesh Adaptation for Brittle Fractures Under Plane-Strain Conditions. SEMA SIMAI Springer Series, 2015, , 43-67.	0.4	4
22	Anisotropic Adaptive Meshes for Brittle Fractures: Parameter Sensitivity. Lecture Notes in Computational Science and Engineering, 2015, , 293-301.	0.1	4
23	Model Adaptation Enriched with an Anisotropic Mesh Spacing for Nonlinear Equations: Application to Environmental and CFD Problems. Numerical Mathematics, 2013, 6, 447-478.	0.6	5
24	Anisotropic Recovery-Based a Posteriori Error Estimators for Advection-Diffusion-Reaction Problems. , 2013, , 43-51.		0
25	The Effect of Anisotropic Mesh Adaptation on PDE-Constrained Optimal Control Problems. SIAM Journal on Control and Optimization, 2011, 49, 1793-1828.	1.1	11
26	An anisotropic Zienkiewiczâ€“Zhuâ€“type error estimator for 3D applications. International Journal for Numerical Methods in Engineering, 2011, 85, 671-692.	1.5	33
27	A recovery-based error estimator for anisotropic mesh adaptation in CFD. BoletÃn De La Sociedad EspaÃola De MatemÃtica Aplicada, 2010, 50, 115-137.	0.9	10
28	Anisotropic Adaptation via a Zienkiewiczâ€“Zhu Error Estimator for 2D Elliptic Problems. , 2010, , 645-653.		4
29	Anisotropic mesh adaption for timeâ€“dependent problems. International Journal for Numerical Methods in Fluids, 2008, 58, 1009-1015.	0.9	7
30	Anisotropic error control for environmental applications. Applied Numerical Mathematics, 2008, 58, 1320-1339.	1.2	17
31	Output Functional Control for Nonlinear Equations Driven by Anisotropic Mesh Adaption: The Navierâ€“Stokes Equations. SIAM Journal of Scientific Computing, 2008, 30, 2817-2854.	1.3	21
32	Uzawa-based adaptive methods for linear output functionals. IMA Journal of Numerical Analysis, 2007, 28, 619-646.	1.5	0
33	Mathematical modelling and numerical simulation of a glow-plug. Applied Numerical Mathematics, 2007, 57, 1125-1144.	1.2	12
34	Stability and error analysis of mixed finite-volume methods for advection dominated problems. Computers and Mathematics With Applications, 2006, 51, 681-696.	1.4	20
35	Reliability and efficiency of an anisotropic Zienkiewiczâ€“Zhu error estimator. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 799-835.	3.4	47
36	On some new recovery-based a posteriori error estimators. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4794-4815.	3.4	24

#	ARTICLE	IF	CITATIONS
37	Discretization of Semiconductor Device Problems (I). Handbook of Numerical Analysis, 2005, 13, 317-441.	0.9	28
38	A multiscale formulation of the Discontinuous Petrovâ€“Galerkin method for advectiveâ€“diffusive problems. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2819-2838.	3.4	15
39	Anisotropic mesh adaptivity in CFD. , 2005, , 171-182.		1
40	Anisotropic mesh adaptation in computational fluid dynamics: Application to the advectionâ€“diffusionâ€“reaction and the Stokes problems. Applied Numerical Mathematics, 2004, 51, 511-533.	1.2	94
41	Stabilized Finite Elements on Anisotropic Meshes: A Priori Error Estimates for the Advection-Diffusion and the Stokes Problems. SIAM Journal on Numerical Analysis, 2003, 41, 1131-1162.	1.1	64
42	The discontinuous Petrovâ€“Galerkin method for elliptic problems. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3391-3409.	3.4	42
43	On Some Mixed Finite Element Methods with Numerical Integration. SIAM Journal of Scientific Computing, 2001, 23, 245-270.	1.3	26
44	Stabilized finite elements for semiconductor device simulation. Computing and Visualization in Science, 2001, 3, 177-183.	1.2	10
45	Dual-primal mixed finite elements for elliptic problems. Numerical Methods for Partial Differential Equations, 2001, 17, 137-151.	2.0	5
46	On a viscous-hydrodynamic model for semiconductors: numerical simulation and stability analysis. Computing and Visualization in Science, 2001, 4, 79-86.	1.2	4
47	A Discretization Scheme for an Extended Drift-Diffusion Model Including Trap-Assisted Phenomena. Journal of Computational Physics, 2000, 159, 197-212.	1.9	10
48	Time-resolved photocurrent and electric field measurements in high resistivity CdTe. Journal of Applied Physics, 2000, 87, 322-328.	1.1	9
49	Stabilized mixed finite elements for fluid models in semiconductors. Computing and Visualization in Science, 1999, 2, 139-147.	1.2	9
50	Current-Voltage Characteristics Simulation of Semiconductor Devices Using Domain Decomposition. Journal of Computational Physics, 1995, 119, 46-61.	1.9	7