

Marcus J Grote

List of Publications by Year in descending order

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43
papers

2,361
citations

279487

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39
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all docs

44
docs citations

44
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel controllability methods for the Helmholtz equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112846.	3.4	9
2	How to solve inverse scattering problems without knowing the source term: a three-step strategy. <i>Inverse Problems</i> , 2019, 35, 104001.	1.0	5
3	Energy Decay and Stability of a Perfectly Matched Layer For the Wave Equation. <i>Journal of Scientific Computing</i> , 2019, 81, 2237-2270.	1.1	9
4	On controllability methods for the Helmholtz equation. <i>Journal of Computational and Applied Mathematics</i> , 2019, 358, 306-326.	1.1	13
5	Convergence Analysis of Energy Conserving Explicit Local Time-Stepping Methods for the Wave Equation. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 994-1021.	1.1	10
6	Finite element heterogeneous multiscale method for elastic waves in heterogeneous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 335, 1-23.	3.4	4
7	Time-dependent wave splitting and source separation. <i>Journal of Computational Physics</i> , 2017, 330, 981-996.	1.9	9
8	Runge-Kutta-Based Explicit Local Time-Stepping Methods for Wave Propagation. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A747-A775.	1.3	34
9	Wave splitting for time-dependent scattered field separation. <i>Comptes Rendus Mathematique</i> , 2015, 353, 523-527.	0.1	5
10	Multi-level explicit local time-stepping methods for second-order wave equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 291, 240-265.	3.4	27
11	Finite Element Heterogeneous Multiscale Method for the Wave Equation: Long-Time Effects. <i>Multiscale Modeling and Simulation</i> , 2014, 12, 1230-1257.	0.6	32
12	Inexact Interior-Point Method for PDE-Constrained Nonlinear Optimization. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A1251-A1276.	1.3	10
13	FE heterogeneous multiscale method for long-time wave propagation. <i>Comptes Rendus Mathematique</i> , 2013, 351, 495-499.	0.1	15
14	High-order explicit local time-stepping methods for damped wave equations. <i>Journal of Computational and Applied Mathematics</i> , 2013, 239, 270-289.	1.1	42
15	Explicit local time-stepping methods for time-dependent wave propagation. , 2013, , 187-218.		6
16	Finite Element Heterogeneous Multiscale Method for the Wave Equation. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 766-792.	0.6	94
17	Local nonreflecting boundary condition for time-dependent multiple scattering. <i>Journal of Computational Physics</i> , 2011, 230, 3135-3154.	1.9	33
18	Explicit local time-stepping methods for Maxwell's equations. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 3283-3302.	1.1	52

#	ARTICLE	IF	CITATIONS
19	Optimal Error Estimates for the Fully Discrete Interior Penalty DG Method for the Wave Equation. <i>Journal of Scientific Computing</i> , 2009, 40, 257-272.	1.1	74
20	On local nonreflecting boundary conditions for time dependent wave propagation. <i>Chinese Annals of Mathematics Series B</i> , 2009, 30, 589-606.	0.2	6
21	Energy Conserving Explicit Local Time Stepping for Second-Order Wave Equations. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 1985-2014.	1.3	91
22	Algebraic Multilevel Preconditioner for the Helmholtz Equation in Heterogeneous Media. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 3781-3805.	1.3	71
23	Interior penalty discontinuous Galerkin method for Maxwell's equations: Energy norm error estimates. <i>Journal of Computational and Applied Mathematics</i> , 2007, 204, 375-386.	1.1	80
24	Nonreflecting boundary condition for time-dependent multiple scattering. <i>Journal of Computational Physics</i> , 2007, 221, 41-62.	1.9	30
25	Exact local nonreflecting boundary conditions for time-dependent multiple scattering. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2020107-2020108.	0.2	1
26	Local nonreflecting boundary condition for Maxwell's equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 3691-3708.	3.4	20
27	Discontinuous Galerkin Finite Element Method for the Wave Equation. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 2408-2431.	1.1	233
28	Stable time filtering of strongly unstable spatially extended systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7548-7553.	3.3	11
29	Dirichlet-to-Neumann boundary conditions for multiple scattering problems. <i>Journal of Computational Physics</i> , 2004, 201, 630-650.	1.9	85
30	Nonreflecting Boundary Conditions for Time Dependent Waves. , 2004, , 73-92.		0
31	Dirichlet-to-Neumann map for three-dimensional elastic waves. <i>Wave Motion</i> , 2003, 37, 293-311.	1.0	33
32	Dirichlet-to-Neumann Boundary Condition for Multiple Scattering Problems. , 2003, , 263-267.		0
33	Robust Parallel Smoothing for Multigrid Via Sparse Approximate Inverses. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 1396-1417.	1.3	43
34	Nonreflecting Boundary Conditions for Elastodynamic Scattering. <i>Journal of Computational Physics</i> , 2000, 161, 331-353.	1.9	28
35	Non-reflecting boundary conditions for electromagnetic scattering. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2000, 13, 397-416.	1.2	11
36	Am Rande des Unendlichen: Numerische Verfahren für unbegrenzte Gebiete. <i>Elemente Der Mathematik</i> , 2000, 55, 67-83.	0.1	0

#	ARTICLE	IF	CITATIONS
37	Exact Nonreflecting Boundary Condition For Elastic Waves. SIAM Journal on Applied Mathematics, 2000, 60, 803-819.	0.8	58
38	Nonreflecting Boundary Conditions for Maxwell's Equations. Journal of Computational Physics, 1998, 139, 327-342.	1.9	81
39	Parallel Preconditioning with Sparse Approximate Inverses. SIAM Journal of Scientific Computing, 1997, 18, 838-853.	1.3	450
40	Parallel implementation of a sparse approximate inverse preconditioner. Lecture Notes in Computer Science, 1996, , 63-74.	1.0	4
41	Nonreflecting Boundary Conditions for Time-Dependent Scattering. Journal of Computational Physics, 1996, 127, 52-65.	1.9	143
42	On Nonreflecting Boundary Conditions. Journal of Computational Physics, 1995, 122, 231-243.	1.9	223
43	Exact Nonreflecting Boundary Conditions for the Time Dependent Wave Equation. SIAM Journal on Applied Mathematics, 1995, 55, 280-297.	0.8	176