

Marcus J Grote

List of Publications by Year in descending order

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43
papers

2,361
citations

279487

23
h-index

301761

39
g-index

44
all docs

44
docs citations

44
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel Preconditioning with Sparse Approximate Inverses. <i>SIAM Journal of Scientific Computing</i> , 1997, 18, 838-853.	1.3	450
2	Discontinuous Galerkin Finite Element Method for the Wave Equation. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 2408-2431.	1.1	233
3	On Nonreflecting Boundary Conditions. <i>Journal of Computational Physics</i> , 1995, 122, 231-243.	1.9	223
4	Exact Nonreflecting Boundary Conditions for the Time Dependent Wave Equation. <i>SIAM Journal on Applied Mathematics</i> , 1995, 55, 280-297.	0.8	176
5	Nonreflecting Boundary Conditions for Time-Dependent Scattering. <i>Journal of Computational Physics</i> , 1996, 127, 52-65.	1.9	143
6	Finite Element Heterogeneous Multiscale Method for the Wave Equation. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 766-792.	0.6	94
7	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
8	Dirichlet-to-Neumann boundary conditions for multiple scattering problems. <i>Journal of Computational Physics</i> , 2004, 201, 630-650.	1.9	85
9	Nonreflecting Boundary Conditions for Maxwell's Equations. <i>Journal of Computational Physics</i> , 1998, 139, 327-342.	1.9	81
10	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
11	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
12	Algebraic Multilevel Preconditioner for the Helmholtz Equation in Heterogeneous Media. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 3781-3805.	1.3	71
13	Exact Nonreflecting Boundary Condition For Elastic Waves. <i>SIAM Journal on Applied Mathematics</i> , 2000, 60, 803-819.	0.8	58
14	Explicit local time-stepping methods for Maxwell's equations. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 3283-3302.	1.1	52
15	Robust Parallel Smoothing for Multigrid Via Sparse Approximate Inverses. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 1396-1417.	1.3	43
16	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
17	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
18	Dirichlet-to-Neumann map for three-dimensional elastic waves. <i>Wave Motion</i> , 2003, 37, 293-311.	1.0	33

#	ARTICLE	IF	CITATIONS
19	Local nonreflecting boundary condition for time-dependent multiple scattering. Journal of Computational Physics, 2011, 230, 3135-3154.	1.9	33
20	Finite Element Heterogeneous Multiscale Method for the Wave Equation: Long-Time Effects. Multiscale Modeling and Simulation, 2014, 12, 1230-1257.	0.6	32
21	Nonreflecting boundary condition for time-dependent multiple scattering. Journal of Computational Physics, 2007, 221, 41-62.	1.9	30
22	Nonreflecting Boundary Conditions for Elastodynamic Scattering. Journal of Computational Physics, 2000, 161, 331-353.	1.9	28
23	Multi-level explicit local time-stepping methods for second-order wave equations. Computer Methods in Applied Mechanics and Engineering, 2015, 291, 240-265.	3.4	27
24	Local nonreflecting boundary condition for Maxwell's equations. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3691-3708.	3.4	20
25	FE heterogeneous multiscale method for long-time wave propagation. Comptes Rendus Mathematique, 2013, 351, 495-499.	0.1	15
26	On controllability methods for the Helmholtz equation. Journal of Computational and Applied Mathematics, 2019, 358, 306-326.	1.1	13
27	Non-reflecting boundary conditions for electromagnetic scattering. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2000, 13, 397-416.	1.2	11
28	Stable time filtering of strongly unstable spatially extended systems. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7548-7553.	3.3	11
29	Inexact Interior-Point Method for PDE-Constrained Nonlinear Optimization. SIAM Journal of Scientific Computing, 2014, 36, A1251-A1276.	1.3	10
30	Convergence Analysis of Energy Conserving Explicit Local Time-Stepping Methods for the Wave Equation. SIAM Journal on Numerical Analysis, 2018, 56, 994-1021.	1.1	10
31	Time-dependent wave splitting and source separation. Journal of Computational Physics, 2017, 330, 981-996.	1.9	9
32	Energy Decay and Stability of a Perfectly Matched Layer For the Wave Equation. Journal of Scientific Computing, 2019, 81, 2237-2270.	1.1	9
33	Parallel controllability methods for the Helmholtz equation. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112846.	3.4	9
34	On local nonreflecting boundary conditions for time dependent wave propagation. Chinese Annals of Mathematics Series B, 2009, 30, 589-606.	0.2	6
35	Explicit local time-stepping methods for time-dependent wave propagation. , 2013, , 187-218.		6
36	Wave splitting for time-dependent scattered field separation. Comptes Rendus Mathematique, 2015, 353, 523-527.	0.1	5

#	ARTICLE	IF	CITATIONS
37	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
38	Parallel implementation of a sparse approximate inverse preconditioner. <i>Lecture Notes in Computer Science</i> , 1996, , 63-74.	1.0	4
39	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
40	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
41	Am Rande des Unendlichen: Numerische Verfahren für unbegrenzte Gebiete. <i>Elemente Der Mathematik</i> , 2000, 55, 67-83.	0.1	0
42	Dirichlet-to-Neumann Boundary Condition for Multiple Scattering Problems. , 2003, , 263-267.		0
43	Nonreflecting Boundary Conditions for Time Dependent Waves. , 2004, , 73-92.		0