

Andreas KlÄckner

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,106
citations

933447

10
h-index

839539

18
g-index

23
all docs

23
docs citations

23
times ranked

1331
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite Elements for Helmholtz Equations with a Nonlocal Boundary Condition. SIAM Journal of Scientific Computing, 2021, 43, A1671-A1691.	2.8	3
2	Optimization of fast algorithms for global Quadrature by Expansion using target-specific expansions. Journal of Computational Physics, 2020, 403, 108976.	3.8	11
3	An integral equation method for the Cahn-Hilliard equation in the wetting problem. Journal of Computational Physics, 2020, 419, 109521.	3.8	3
4	Simulation of Multiscale Hydrophobic Lipid Dynamics via Efficient Integral Equation Methods. Multiscale Modeling and Simulation, 2020, 18, 79-103.	1.6	4
5	Multi-rate time integration on overset meshes. Journal of Computational Physics, 2019, 396, 325-346.	3.8	7
6	A fast algorithm for Quadrature by Expansion in three dimensions. Journal of Computational Physics, 2019, 388, 655-689.	3.8	23
7	Conformal Mapping via a Density Correspondence for the Double-Layer Potential. SIAM Journal of Scientific Computing, 2018, 40, A3715-A3732.	2.8	4
8	High-order finite element–integral equation coupling on embedded meshes. Journal of Computational Physics, 2018, 375, 1295-1313.	3.8	1
9	A fast algorithm with error bounds for Quadrature by Expansion. Journal of Computational Physics, 2018, 374, 135-162.	3.8	15
10	Fast algorithms for Quadrature by Expansion I: Globally valid expansions. Journal of Computational Physics, 2017, 345, 706-731.	3.8	24
11	Array program transformation with Loo.py by example: high-order finite elements. , 2016, , .		2
12	Loo.py: from fortran to performance via transformation and substitution rules. , 2015, , .		4
13	Visualizing skin effects in conductors with MRI: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" overflow="scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Li MRI experiments and calculations. Journal of Magnetic Resonance, 2014, 245, 142-149.$	2.1	63
14	Loo.py. , 2014, , .		32
15	On the Convergence of Local Expansions of Layer Potentials. SIAM Journal on Numerical Analysis, 2013, 51, 2660-2679.	2.3	33
16	Quadrature by expansion: A new method for the evaluation of layer potentials. Journal of Computational Physics, 2013, 252, 332-349.	3.8	131
17	A Consistency Condition for the Vector Potential in Multiply-Connected Domains. IEEE Transactions on Magnetics, 2013, 49, 1072-1076.	2.1	10
18	High-Order Discontinuous Galerkin Methods by GPU Metaprogramming. Lecture Notes in Earth System Sciences, 2013, , 353-374.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Solving Wave Equations on Unstructured Geometries. , 2012, , 225-242.		4
20	GPU Scripting and Code Generation with PyCUDA. , 2012, , 373-385.		4
21	PyCUDA and PyOpenCL: A scripting-based approach to GPU run-time code generation. Parallel Computing, 2012, 38, 157-174.	2.1	396
22	Viscous Shock Capturing in a Time-Explicit Discontinuous Galerkin Method. Mathematical Modelling of Natural Phenomena, 2011, 6, 57-83.	2.4	76
23	Nodal discontinuous Galerkin methods on graphics processors. Journal of Computational Physics, 2009, 228, 7863-7882.	3.8	250