JÃ¶rg Stiller

List of Publications by Year
in descending order

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27	255	933447	940533
papers	citations	10 h-index	16 g-index

27	27	27	260
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient high-order spectral element discretizations for building block operators of CFD. Computers and Fluids, 2020, 197, 104386.	2.5	4
2	A spectral deferred correction method for incompressible flow with variable viscosity. Journal of Computational Physics, 2020, 423, 109840.	3.8	2
3	Scaling to the stars â€“ a linearly scaling elliptic solver for p-multigrid. Journal of Computational Physics, 2019, 398, 108868.	3.8	12
4	A Hardware/Software Stack for Heterogeneous Systems. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 243-259.	2.4	12
5	Load Balancing for CPU-GPU Coupling in Computational Fluid Dynamics. Lecture Notes in Computer Science, 2018, , 337-347.	1.3	2
6	Optimizing triangular high-order surface meshes by energy-minimization. Engineering With Computers, 2018, 34, 659-670.	6.1	2
7	Improvement of Airport Local Air Quality Modeling. Journal of Aircraft, 2017, 54, 1750-1759.	2.4	8
8	Nonuniformly Weighted Schwarz Smoothers for Spectral Element Multigrid. Journal of Scientific Computing, 2017, 72, 81-96.	2.3	11
9	Factorizing the factorization â€“ a spectral-element solver for elliptic equations with linear operation count. Journal of Computational Physics, 2017, 346, 437-448.	3.8	11
10	Building blocks for a leading edge high-order flow solver. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 129-132.	0.2	2
11	Robust Multigrid for Cartesian Interior Penalty DG Formulations of the Poisson Equation in 3D. Lecture Notes in Computational Science and Engineering, 2017, , 189-201.	0.3	3
12	Towards compositional and generative tensor optimizations. ACM SIGPLAN Notices, 2017, 52, 169-175.	0.2	0
13	Robust multigrid for high-order discontinuous Galerkin methods: A fast Poisson solver suitable for high-aspect ratio Cartesian grids. Journal of Computational Physics, 2016, 327, 317-336.	3.8	16
14	Using Semantics-aware Composition and Weaving for Multi-variant Progressive Parallelization. Procedia Computer Science, 2016, 80, 1554-1565.	2.0	2
15	Cascadic Multigrid in a Spectralâ€Element Context. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 841-842.	0.2	1
16	Large-Eddy Simulation Study of the Effects on Flow of a Heterogeneous Forest at Sub-Tree Resolution. Boundary-Layer Meteorology, 2015, 154, 27-56.	2.3	32
17	Two-level parallelization of a fluid mechanics algorithm exploiting hardware heterogeneity. Computers and Fluids, 2015, 117, 114-124.	2.5	9
18	Sum factorization of the static condensed Helmholtz equation in a three-dimensional spectral element discretization. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 969-970.	0.2	4

#	Article	IF	Citations
19	Deriving forces from 2D velocity field measurements. European Physical Journal: Special Topics, 2013, 220, 91-100.	2.6	4
20	A fast spectral element solver combining static condensation and multigrid techniques. Journal of Computational Physics, 2013, 255, 384-395.	3.8	18
21	INFLUENCE OF PENALIZATION AND BOUNDARY TREATMENT ON THE STABILITY AND ACCURACY OF HIGH-ORDER DISCONTINUOUS GALERKIN SCHEMES FOR THE COMPRESSIBLE NAVIER-STOKES EQUATIONS. Journal of Computational Acoustics, 2013, 21, 1250019.	1.0	1
22	Large-Eddy Simulation of Inhomogeneous Canopy Flows Using High Resolution Terrestrial Laser Scanning Data. Boundary-Layer Meteorology, 2012, 142, 223-243.	2.3	39
23	A method to estimate the planar, instantaneous body force distribution from velocity field measurements. Physics of Fluids, 2011, 23, .	4.0	38
24	Largeâ€Eddy Simulations of Inhomogeneous Canopy Flows. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 453-454.	0.2	0
25	Factorization Techniques for Nodal Spectral Elements in Curved Domains. SIAM Journal of Scientific Computing, 2008, 30, 2286-2301.	2.8	1
26	STABILIZED DISCONTINUOUS GALERKIN METHODS FOR FLOWâ€“SOUND INTERACTION. Journal of Computational Acoustics, 2007, 15, 123-143.	1.0	13
27	Point-normal interpolation schemes reproducing spheres, cylinders and cones. Computer Aided Geometric Design, 2007, 24, 286-301.	1.2	8