Axel Modave

List of Publications by Year
in descending order

18 papers	273 citations	1039406 9 h-index	940134 16 g-index
18 all docs	18 docs citations	18 times ranked	212 citing authors

#	Article	IF	Citations
1	GPU-accelerated discontinuous Galerkin methods on hybrid meshes. Journal of Computational Physics, 2016, 318, 142-168.	1.9	56
2	Optimizing perfectly matched layers in discrete contexts. International Journal for Numerical Methods in Engineering, 2014, 99, 410-437.	1.5	32
3	Corner treatments for high-order local absorbing boundary conditions in high-frequency acoustic scattering. Journal of Computational Physics, 2020, 401, 109029.	1.9	31
4	GPU performance analysis of a nodal discontinuous Galerkin method for acoustic and elastic models. Computers and Geosciences, 2016, 91, 64-76.	2.0	29
5	A nodal discontinuous Galerkin method for reverse-time migration on GPU clusters. Geophysical Journal International, 2015, 203, 1419-1435.	1.0	22
6	On the parameters of absorbing layers for shallow water models. Ocean Dynamics, 2010, 60, 65-79.	0.9	20
7	An automatic perfectly matched layer for acoustic finite element simulations in convex domains of general shape. International Journal for Numerical Methods in Engineering, 2021, 122, 1239.	1.5	17
8	A non-overlapping domain decomposition method with high-order transmission conditions and cross-point treatment for Helmholtz problems. Computer Methods in Applied Mechanics and Engineering, 2020, 368, 113162.	3.4	16
9	A GPUâ€accelerated nodal discontinuous Galerkin method with highâ€order absorbing boundary conditions and corner/edge compatibility. International Journal for Numerical Methods in Engineering, 2017, 112, 1659-1686.	1.5	10
10	Perfectly matched layers for convex truncated domains with discontinuous Galerkin time domain simulations. Computers and Mathematics With Applications, 2017, 73, 684-700.	1.4	9
11	A non-overlapping domain decomposition method with perfectly matched layer transmission conditions for the Helmholtz equation. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 115006.	3.4	7
12	An optimum PML for scattering problems in the time domain. EPJ Applied Physics, 2013, 64, 24502.	0.3	6
13	Multidirectional sweeping preconditioners with non-overlapping checkerboard domain decomposition for Helmholtz problems. Journal of Computational Physics, 2022, 453, 110887.	1.9	5
14	3-D Modeling of Thin Sheets in the Discontinuous Galerkin Method for Transient Scattering Analysis. IEEE Transactions on Magnetics, 2014, 50, 493-496.	1.2	4
15	Evaluation of shielding effectiveness of composite wall with a time domain discontinuous Galerkin method. EPJ Applied Physics, 2013, 64, 24508.	0.3	3
16	Analysis of transient scattering problems using a discontinuous Galerkin method: application to the shielding effectiveness of enclosures with heterogeneous walls. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 626-635.	1.2	2
17	Analysis of Variational Formulations and Low-regularity Solutions for Time-harmonic Electromagnetic Problems in Complex Anisotropic Media. SIAM Journal on Mathematical Analysis, 2021, 53, 2691-2717.	0.9	2
18	Accelerated Discontinuous Galerkin Time-domain Simulations for Seismic Wave Propagation. , 2015, , .		2