StÃ©phane Lanteri

List of Publications by Year
in descending order

44 papers	1,229 citations	394421 19 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	694 citing authors

#	Article	IF	Citations
1	A non-intrusive model order reduction approach for parameterized time-domain Maxwell's equations. Discrete and Continuous Dynamical Systems - Series B, 2023, 28, 449.	0.9	1
2	Non-Intrusive Reduced-Order Modeling of Parameterized Electromagnetic Scattering Problems using Cubic Spline Interpolation. Journal of Scientific Computing, 2021, 87, 1.	2.3	9
3	High order HDG method and domain decomposition solvers for frequencyâ€domain electromagnetics. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2678.	1.9	4
4	Numerical Optimization Methods for Metasurfaces. Laser and Photonics Reviews, 2020, 14, 1900445.	8.7	100
5	An Exponential-Based DGTD Method for Modeling 3-D Plasma-Surrounded Hypersonic Vehicles. IEEE Transactions on Antennas and Propagation, 2020, 68, 3847-3858.	5.1	11
6	An Explicit Hybridizable Discontinuous Galerkin Method for the 3D Time-Domain Maxwell Equations. Lecture Notes in Computational Science and Engineering, 2020, , 513-523.	0.3	3
7	POD-based model order reduction with an adaptive snapshot selection for a discontinuous Galerkin approximation of the time-domain Maxwell's equations. Journal of Computational Physics, 2019, 396, 106-128.	3.8	19
8	A reduced-order discontinuous Galerkin method based on a Krylov subspace technique in nanophotonics. Applied Mathematics and Computation, 2019, 358, 128-145.	2.2	2
9	Parametric POD-Galerkin model order reduction with a greedy algorithm for the time-domain Maxwell's equations. , 2019, , .		0
10	A reduced-order DG formulation based on POD method for the time-domain Maxwellâ€™s equations in dispersive media. Journal of Computational and Applied Mathematics, 2018, 336, 249-266.	2.0	11
11	A Reduced-Order Discontinuous Galerkin Method Based on POD for Electromagnetic Simulation. IEEE Transactions on Antennas and Propagation, 2018, 66, 242-254.	5.1	32
12	An implicit hybridized discontinuous Galerkin method for the 3D time-domain Maxwell equations. Applied Mathematics and Computation, 2018, 319, 395-408.	2.2	18
13	The Multiscale Hybrid-Mixed method for the Maxwell Equations in Heterogeneous Media. Multiscale Modeling and Simulation, 2018, 16, 1648-1683.	1.6	8
14	Numerical study of a family of IMEX-DGTD methods for the 3D time-domain Maxwell's equations. , 2017, , .		1
15	A hybridizable discontinuous Galerkin method for solving nonlocal optical response models. Computer Physics Communications, 2017, 219, 99-107.	7.5	38
16	Temporal convergence analysis of a locally implicit discontinuous Galerkin time domain method for electromagnetic wave propagation in dispersive media. Journal of Computational and Applied Mathematics, 2017, 316, 122-132.	2.0	8
17	A New Family of Exponential-Based High-Order DGTD Methods for Modeling 3-D Transient Multiscale Electromagnetic Problems. IEEE Transactions on Antennas and Propagation, 2017, 65, 5960-5974.	5.1	16
18	A DGTD method for the numerical modeling of the interaction of light with nanometer scale metallic structures taking into account non-local dispersion effects. Journal of Computational Physics, 2016, 316, 396-415.	3.8	46

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19	Locally Implicit Discontinuous Galerkin Time Domain Method for Electromagnetic Wave Propagation in Dispersive Media Applied to Numerical Dosimetry in Biological Tissues. SIAM Journal of Scientific Computing, 2016, 38, A2611-A2633.	2.8	11
20	Optimized Schwarz algorithms for solving time-harmonic Maxwellâ€™s equations discretized by a hybridizable discontinuous Galerkin method. Computer Physics Communications, 2016, 200, 176-181.	7.5	7
21	Simulation of near-field plasmonic interactions with a local approximation order discontinuous Galerkin time-domain method. Photonics and Nanostructures - Fundamentals and Applications, 2016, 18, 43-58.	2.0	6
22	A class of locally well-posed hybridizable discontinuous Galerkin methods for the solution of time-harmonic Maxwellâ€™s equations. Computer Physics Communications, 2015, 192, 23-31.	7.5	10
23	Effective transmission conditions for domain decomposition methods applied to the time-harmonic curlâ€“curl Maxwell's equations. Journal of Computational Physics, 2015, 280, 232-247.	3.8	50
24	A parallel non-conforming multi-element DGTD method for the simulation of electromagnetic wave interaction with metallic nanoparticles. Journal of Computational and Applied Mathematics, 2014, 270, 330-342.	2.0	20
25	A hybridizable discontinuous Galerkin method combined to a Schwarz algorithm for the solution of 3d time-harmonic MaxwellÊ¼s equation. Journal of Computational Physics, 2014, 256, 563-581.	3.8	50
26	Locally Implicit Time Integration Strategies in a Discontinuous Galerkin Method for Maxwellâ€™s Equations. Journal of Scientific Computing, 2013, 56, 190-218.	2.3	37
27	High order non-conforming multi-element discontinuous Galerkin method for time domain electromagnetics. Applied Mathematics and Computation, 2013, 224, 681-704.	2.2	8
28	Recent advances on a DGTD method for time-domain electromagnetics. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 291-302.	2.0	21
29	High order discontinuous Galerkin method for the solution of 2D time-harmonic Maxwellâ€™s equations. Applied Mathematics and Computation, 2013, 219, 7241-7251.	2.2	12
30	Numerical investigation of a high order hybridizable discontinuous Galerkin method for 2d timeâ€harmonic Maxwell's equations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1112-1138.	0.9	30
31	Locally implicit discontinuous Galerkin method for time domain electromagnetics. Journal of Computational Physics, 2010, 229, 512-526.	3.8	91
32	A high-order non-conforming discontinuous Galerkin method for time-domain electromagnetics. Journal of Computational and Applied Mathematics, 2010, 234, 1088-1096.	2.0	49
33	A domain decomposition method for solving the three-dimensional time-harmonic Maxwell equations discretized by discontinuous Galerkin methods. Journal of Computational Physics, 2008, 227, 2044-2072.	3.8	33
34	Optimized Schwarz Algorithms for Solving Time-Harmonic Maxwell's Equations Discretized by a Discontinuous Galerkin Method. IEEE Transactions on Magnetics, 2008, 44, 954-957.	2.1	19
35	Parallel discontinuous Galerkin unstructured mesh solvers for the calculation of three-dimensional wave propagation problems. Applied Mathematical Modelling, 2006, 30, 744-763.	4.2	31
36	TIME-DOMAIN PARALLEL SIMULATION OF HETEROGENEOUS WAVE PROPAGATION ON UNSTRUCTURED GRIDS USING EXPLICIT, NONDIFFUSIVE, DISCONTINUOUS GALERKIN METHODS. Journal of Computational Acoustics, 2006, 14, 57-81.	1.0	23

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37	Convergence and stability of a discontinuous Galerkin time-domain method for the 3D heterogeneous Maxwell equations on unstructured meshes. ESAIM: Mathematical Modelling and Numerical Analysis, 2005, 39, 1149-1176.	1.9	214
38	Strategies for Reducing Computing Time of Nuclear Waste Management Simulations Using the PORFLOW â„¢ Software. Computational Geosciences, 2004, 8, 203-215.	2.4	0
39	Convergence analysis of additive Schwarz for the Euler equations. Applied Numerical Mathematics, 2004, 49, 153-186.	2.1	12
40	Construction of interface conditions for solving the compressible Euler equations by non-overlapping domain decomposition methods. International Journal for Numerical Methods in Fluids, 2002, 40, 1485-1492.	1.6	5
41	A domain decomposition approach to finite volume solutions of the Euler equations on unstructured triangular meshes. International Journal for Numerical Methods in Fluids, 2001, 37, 625-656.	1.6	5
42	TOP/DOMDECâ€”A software tool for mesh partitioning and parallel processing. Computing Systems in Engineering: an International Journal, 1995, 6, 13-26.	0.5	70
43	Simulation of compressible viscous flows on a variety of MPPs: computational algorithms for unstructured dynamic meshes and performance results. Computer Methods in Applied Mechanics and Engineering, 1994, 119, 35-60.	6.6	41
44	Two-dimensional viscous flow computations on the Connecti on Machine: Unstructured meshes, upwind schemes and massively parallel computations. Computer Methods in Applied Mechanics and Engineering, 1993, 102, 61-88.	6.6	47