Jens Niegemann

List of Publications by Year
in descending order

23 papers	732 citations	567281 15 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	875 citing authors

#	Article	IF	Citations
1	Absolute extinction cross-section of individual magnetic split-ring resonators. Nature Photonics, 2008, 2, 614-617.	31.4	88
2	Electromagnetic interaction of split-ring resonators: The role of separation and relative orientation. Optics Express, 2010, 18, 6545.	3.4	77
3	Quantitative Experimental Determination of Scattering and Absorption Cross-Section Spectra of Individual Optical Metallic Nanoantennas. Physical Review Letters, 2012, 109, 233902.	7.8	64
4	Higher-order time-domain methods for the analysis of nano-photonic systems. Photonics and Nanostructures - Fundamentals and Applications, 2009, 7, 2-11.	2.0	59
5	Efficient low-storage Runge–Kutta schemes with optimized stability regions. Journal of Computational Physics, 2012, 231, 364-372.	3.8	59
6	From Isolated Metaatoms to Photonic Metamaterials: Evolution of the Plasmonic Near-Field. Nano Letters, 2013, 13, 703-708.	9.1	53
7	Discontinuous Galerkin time-domain computations of metallic nanostructures. Optics Express, 2009, 17, 14934.	3.4	50
8	Spatio-spectral characterization of photonic meta-atoms with electron energy-loss spectroscopy [Invited]. Optical Materials Express, 2011, 1, 1009.	3.0	36
9	Computing electron energy loss spectra with the Discontinuous Galerkin Time-Domain method. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 367-373.	2.0	36
10	The Discontinuous Galerkin Time-Domain method for Maxwell's equations with anisotropic materials. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 303-309.	2.0	35
11	Second Harmonic Generation from Metal Nano-Particle Resonators: Numerical Analysis On the Basis of the Hydrodynamic Drude Model. Journal of Physical Chemistry C, 2016, 120, 1163-1169.	3.1	33
12	Comparison of Low-Storage Runge-Kutta Schemes for Discontinuous Galerkin Time-Domain Simulations of Maxwell's Equations. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1572-1580.	0.4	30
13	Time-Domain Simulations of the Nonlinear Maxwell Equations Using Operator-Exponential Methods. IEEE Transactions on Antennas and Propagation, 2009, 57, 475-483.	5.1	19
14	Higher-Order Time-Domain Simulations of Maxwell's Equations Using Krylov-Subspace Methods. Journal of Computational and Theoretical Nanoscience, 2007, 4, 627-634.	0.4	16
15	Efficient multiple time-stepping algorithms of higher order. Journal of Computational Physics, 2015, 285, 133-148.	3.8	15
16	A Krylov–subspace based solver for the linear and nonlinear Maxwell equations. Physica Status Solidi (B): Basic Research, 2007, 244, 3479-3496.	1.5	14
17	Comparison of electron energy-loss and quantitative optical spectroscopy on individual optical gold antennas. Nanophotonics, 2013, 2, 241-245.	6.0	14
18	Quantitative spectroscopy on individual wire, slot, bow-tie, rectangular, and square-shaped optical antennas. Optics Letters, 2013, 38, 4597.	3.3	14

#	Article	IF	Citations
19	Analysis of light propagation in slotted resonator based systems via coupled-mode theory. Optics Express, 2011, 19, 8641.	3.4	10
20	Stretched-coordinate PMLs for Maxwell's equations in the discontinuous Galerkin time-domain method. Optics Express, 2011, 19, 4618.	3.4	8
21	MMP Simulation of Plasmonic Particles on Substrate Under E-Beam Illumination. Springer Series on Atomic, Optical, and Plasma Physics, 2018, , 121-145.	0.2	2
22	Visualizing Plasmonic Coupling in Metamaterials and Applying Angular Resolved EELS. Microscopy and Microanalysis, 2015, 21, 2385-2386.	0.4	0
23	Quantitative Analysis of Certain Nano-Plasmonic Systems. , 2008, , .		0