

# Jens Niegemann

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Visualizing Plasmonic Coupling in Metamaterials and Applying Angular Resolved EELS. Microscopy and Microanalysis, 2015, 21, 2385-2386.	0.4	0
4	Efficient multiple time-stepping algorithms of higher order. Journal of Computational Physics, 2015, 285, 133-148.	3.8	15
5	From Isolated Metaatoms to Photonic Metamaterials: Evolution of the Plasmonic Near-Field. Nano Letters, 2013, 13, 703-708.	9.1	53
6	Comparison of electron energy-loss and quantitative optical spectroscopy on individual optical gold antennas. Nanophotonics, 2013, 2, 241-245.	6.0	14
7	Quantitative spectroscopy on individual wire, slot, bow-tie, rectangular, and square-shaped optical antennas. Optics Letters, 2013, 38, 4597.	3.3	14
8	Quantitative Experimental Determination of Scattering and Absorption Cross-Section Spectra of Individual Optical Metallic Nanoantennas. Physical Review Letters, 2012, 109, 233902.	7.8	64
9	Efficient low-storage Runge-Kutta schemes with optimized stability regions. Journal of Computational Physics, 2012, 231, 364-372.	3.8	59
10	Stretched-coordinate PMLs for Maxwell's equations in the discontinuous Galerkin time-domain method. Optics Express, 2011, 19, 4618.	3.4	8
11	Analysis of light propagation in slotted resonator based systems via coupled-mode theory. Optics Express, 2011, 19, 8641.	3.4	10
12	Spatio-spectral characterization of photonic meta-atoms with electron energy-loss spectroscopy [Invited]. Optical Materials Express, 2011, 1, 1009.	3.0	36
13	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
14	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
15	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
16	Electromagnetic interaction of split-ring resonators: The role of separation and relative orientation. Optics Express, 2010, 18, 6545.	3.4	77
17	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
18	Discontinuous Galerkin time-domain computations of metallic nanostructures. Optics Express, 2009, 17, 14934.	3.4	50

#	ARTICLE	IF	CITATIONS
19	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
20	Absolute extinction cross-section of individual magnetic split-ring resonators. Nature Photonics, 2008, 2, 614-617.	31.4	88
21	Quantitative Analysis of Certain Nano-Plasmonic Systems. , 2008, , .		0
22	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
23	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