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Numerical solutions of Maxwells equations for nonlinear-optical pulse propagation

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#	Paper	IF	Citations
63	Nonlinear PML for absorption of nonlinear electromagnetic waves.		
62	FDTD Maxwell's equations models for nonlinear electrodynamics and optics. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 364-374	4.9	134
61	Subwavelength spatial solitons. <i>Optics Letters</i> , 1997 , 22, 1290-2	3	28
60	Nonlinear Optical Pulse Propagation in the Single-Cycle Regime. <i>Physical Review Letters</i> , 1997 , 78, 3282-3285	7.4	647
59	Subwavelength spatial solitons of TE mode. <i>Optics Communications</i> , 1998 , 157, 170-172	2	13
58	Numerical validations of a nonlinear PML scheme for absorption of nonlinear electromagnetic waves. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 1752-1758	4.1	8
57	Non-paraxial solitons. <i>Journal of Modern Optics</i> , 1998 , 45, 1111-1121	1.1	52
56	Sub-wavelength non-local spatial solitons. <i>Optics Communications</i> , 1999 , 166, 121-126	2	23
55	Phase Defects in Self-Focusing of Ultrashort Pulses. <i>Physical Review Letters</i> , 1999 , 83, 540-543	7.4	12
54	Comparison between Staggered and Unstaggered Finite-Difference Time-Domain Grids for Few-Cycle Temporal Optical Soliton Propagation. <i>Journal of Computational Physics</i> , 2000 , 161, 379-400	4.1	32
53	On the existence of subwavelength spatial solitons. <i>Optics Communications</i> , 2000 , 178, 431-435	2	16
52	Diffractive short pulse asymptotics for nonlinear wave equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 264, 390-395	2.3	26
51	Moving Coordinate Frame FDTD Analysis of Long Range Tracking of Pulsed Fields in Graded Index Waveguides. <i>Progress in Electromagnetics Research</i> , 2000 , 26, 133-164	3.8	1
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47	Solitary waves, steepening and initial collapse in the Maxwell-Lorentz system. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 170, 287-303	3.3	9

46	Finite difference method to solve Maxwell's equations for soliton propagation. <i>Applied Mathematics and Computation</i> , 2002 , 126, 213-229	2.7	
45	Existence and stability of modulating pulse solutions in Maxwell's equations describing nonlinear optics. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2003 , 54, 677-712	1.6	13
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43	Diffractive Nonlinear Geometric Optics for Short Pulses. <i>SIAM Journal on Mathematical Analysis</i> , 2003 , 34, 1477-1502	1.7	14
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41	Dynamic Load Balancing Computation of Pulses Propagating in a Nonlinear Medium. <i>Journal of Supercomputing</i> , 2004 , 28, 279-294	2.5	9
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37	Gap solitons in a medium with third-harmonic generation. <i>Physical Review E</i> , 2005 , 72, 016624	2.4	8
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17	Simulation of electromagnetic waves propagation in free space using Netlogo multi-agent approach. 2017 ,		0
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10	Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-15	1.8	1
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3	Dynamic Load Balance Strategy: Application to Nonlinear Optics. 2004 , 109-125		
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