

Hung-chun Chang

List of Publications by Year in descending order

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29
papers

307
citations

1040056

9
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839539

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all docs

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docs citations

29
times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved full-vectorial finite-difference mode solver for optical waveguides with step-index profiles. <i>Journal of Lightwave Technology</i> , 2002, 20, 1609-1618.	4.6	59
2	Three-dimensional noniterative full-vectorial beam propagation method based on the alternating direction implicit method. <i>Journal of Lightwave Technology</i> , 1999, 17, 2389-2397.	4.6	48
3	Subwavelength Dielectric-Fiber-Based THz Coupler. <i>Journal of Lightwave Technology</i> , 2009, 27, 1489-1495.	4.6	37
4	Applications of the finite difference mode solution method to photonic crystal structures. <i>Optical and Quantum Electronics</i> , 2004, 36, 145-163.	3.3	36
5	Finite-Difference Modeling of Dielectric Waveguides With Corners and Slanted Facets. <i>Journal of Lightwave Technology</i> , 2009, 27, 2077-2086.	4.6	24
6	A Legendre Pseudospectral Penalty Scheme for Solving Time-Domain Maxwell's Equations. <i>Journal of Scientific Computing</i> , 2008, 36, 351-390.	2.3	19
7	Leaky Surface Plasmon Polariton Modes at an Interface Between Metal and Uniaxially Anisotropic Materials. <i>IEEE Photonics Journal</i> , 2013, 5, 4800806-4800806.	2.0	13
8	High-Resolution Analysis of Leaky Modes in Surface Plasmon Stripe Waveguides. <i>Journal of Lightwave Technology</i> , 2016, 34, 2752-2757.	4.6	10
9	Robust Calculation of Chromatic Dispersion Coefficients of Optical Fibers From Numerically Determined Effective Indices Using Chebyshev-Lagrange Interpolation Polynomials. <i>Journal of Lightwave Technology</i> , 2006, 24, 4411-4416.	4.6	9
10	A Multidomain Pseudospectral Mode Solver for Optical Waveguide Analysis. <i>Journal of Lightwave Technology</i> , 2012, 30, 2077-2087.	4.6	9
11	Super Diffraction in a Single-Layer Metasurface. <i>Journal of Lightwave Technology</i> , 2016, 34, 3312-3316.	4.6	9
12	Simulations of Dielectric and Plasmonic Waveguide-Coupled Ring Resonators Using the Legendre Pseudospectral Time-Domain Method. <i>Journal of Lightwave Technology</i> , 2012, 30, 1733-1742.	4.6	8
13	Investigating Far-Field Spectra and Near-Field Features of Extraordinary Optical Transmission Through Periodic U- to H-Shaped Apertures. <i>IEEE Photonics Journal</i> , 2012, 4, 387-398.	2.0	7
14	Plasmon Coupling Within the Multifold Nanorod Metasurface for Sensing Applications. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	5
15	Analysis of nonuniform nonlinear distributed feedback structures using a simple numerical approach. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 1337-1343.	1.9	3
16	Prediction of Transmission Shape-Resonances in Aperture Arrays With One- or Twofold Mirror-Symmetry Based on a Near-Field Phase Property. <i>IEEE Journal of Quantum Electronics</i> , 2014, 50, 287-294.	1.9	3
17	Finite-difference frequency-domain analysis of nematic liquid crystal optical waveguides in silicon V-grooves. , 2009, , .		2
18	The Second-order Condition of FDTD Method at Sloped Dielectric Interfaces by Averaging the Permittivities along Surface Normal. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 5259-5267.	5.1	2

#	ARTICLE	IF	CITATIONS
19	Plasmonic States From Visible Light to Microwaves. IEEE Journal of Quantum Electronics, 2009, 45, 1558-1562.	1.9	1
20	Pseudospectral Modeling of Nano-Optics in Ag Sphere Arrays. Journal of Scientific Computing, 2010, 45, 429-446.	2.3	1
21	A High-Accuracy Multidomain Legendre Pseudospectral Frequency-Domain Method With Penalty Scheme for Solving Scattering and Coupling Problems of Nano-Cylinders. Journal of Lightwave Technology, 2013, 31, 768-778.	4.6	1
22	Calculation of leaky surface modes in planar structures involving uniaxially anisotropic interfaces. , 2013, , .		1
23	Modal analysis of protonic crystal planar waveguides using a finite difference method. , 0, , .		0
24	Improved Finite-Difference Frequency-Domain Scheme for the Analysis of 2-D Photonic Crystals. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	0
25	A legendre pseudospectral frequency-domain method for solving Maxwell's equations. , 2010, , .		0
26	Electromagnetic simulations of 2D optical microring resonators using the multidomain Legendre pseudospectral time-domain method. , 2010, , .		0
27	A multidomain Legendre pseudospectral frequency-domain method with penalty scheme for solving maxwell's equations. , 2010, , .		0
28	Numerical investigation of light scattering by coupled plasmonic nanospheres using a high-accuracy multidomain Legendre pseudospectral time-domain method. , 2011, , .		0
29	Investigation of nanoelectromagnetics problems using the multidomain legendre pseudospectral time-domain method. , 2012, , .		0