

# Hung-chun Chang

## List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Plasmon Coupling Within the Multifold Nanorod Metasurface for Sensing Applications. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	5
2	High-Resolution Analysis of Leaky Modes in Surface Plasmon Stripe Waveguides. Journal of Lightwave Technology, 2016, 34, 2752-2757.	4.6	10
3	Super Diffraction in a Single-Layer Metasurface. Journal of Lightwave Technology, 2016, 34, 3312-3316.	4.6	9
4	Prediction of Transmission Shape-Resonances in Aperture Arrays With One- or Twofold Mirror-Symmetry Based on a Near-Field Phase Property. IEEE Journal of Quantum Electronics, 2014, 50, 287-294.	1.9	3
5	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
6	Calculation of leaky surface modes in planar structures involving uniaxially anisotropic interfaces. , 2013, , .		1
7	Leaky Surface Plasmon Polariton Modes at an Interface Between Metal and Uniaxially Anisotropic Materials. IEEE Photonics Journal, 2013, 5, 4800806-4800806.	2.0	13
8	Investigation of nanoelectromagnetics problems using the multidomain legendre pseudospectral time-domain method. , 2012, , .		0
9	The Second-order Condition of FDTD Method at Sloped Dielectric Interfaces by Averaging the Permittivities along Surface Normal. IEEE Transactions on Antennas and Propagation, 2012, 60, 5259-5267.	5.1	2
10	Simulations of Dielectric and Plasmonic Waveguide-Coupled Ring Resonators Using the Legendre Pseudospectral Time-Domain Method. Journal of Lightwave Technology, 2012, 30, 1733-1742.	4.6	8
11	A Multidomain Pseudospectral Mode Solver for Optical Waveguide Analysis. Journal of Lightwave Technology, 2012, 30, 2077-2087.	4.6	9
12	Investigating Far-Field Spectra and Near-Field Features of Extraordinary Optical Transmission Through Periodic U- to H-Shaped Apertures. IEEE Photonics Journal, 2012, 4, 387-398.	2.0	7
13	Numerical investigation of light scattering by coupled plasmonic nanospheres using a high-accuracy multidomain Legendre pseudospectral time-domain method. , 2011, , .		0
14	Pseudospectral Modeling of Nano-Optics in Sphere Arrays. Journal of Scientific Computing, 2010, 45, 429-446.	2.3	1
15	A legendre pseudospectral frequency-domain method for solving Maxwell's equations. , 2010, , .		0
16	Electromagnetic simulations of 2D optical microring resonators using the multidomain Legendre pseudospectral time-domain method. , 2010, , .		0
17	A multidomain Legendre pseudospectral frequency-domain method with penalty scheme for solving maxwell's equations. , 2010, , .		0
18	Finite-difference frequency-domain analysis of nematic liquid crystal optical waveguides in silicon V-grooves. , 2009, , .		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	Subwavelength Dielectric-Fiber-Based THz Coupler. Journal of Lightwave Technology, 2009, 27, 1489-1495.	4.6	37
21	Finite-Difference Modeling of Dielectric Waveguides With Corners and Slanted Facets. Journal of Lightwave Technology, 2009, 27, 2077-2086.	4.6	24
22	A Legendre Pseudospectral Penalty Scheme for Solving Time-Domain Maxwell's Equations. Journal of Scientific Computing, 2008, 36, 351-390.	2.3	19
23	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
24	Robust Calculation of Chromatic Dispersion Coefficients of Optical Fibers From Numerically Determined Effective Indices Using Chebyshev's Lagrange Interpolation Polynomials. Journal of Lightwave Technology, 2006, 24, 4411-4416.	4.6	9
25	Applications of the finite difference mode solution method to photonic crystal structures. Optical and Quantum Electronics, 2004, 36, 145-163.	3.3	36
26	Analysis of nonuniform nonlinear distributed feedback structures using a simple numerical approach. IEEE Journal of Quantum Electronics, 2004, 40, 1337-1343.	1.9	3
27	Improved full-vectorial finite-difference mode solver for optical waveguides with step-index profiles. Journal of Lightwave Technology, 2002, 20, 1609-1618.	4.6	59
28	Three-dimensional noniterative full-vectorial beam propagation method based on the alternating direction implicit method. Journal of Lightwave Technology, 1999, 17, 2389-2397.	4.6	48
29	Modal analysis of photonic crystal planar waveguides using a finite difference method. , 0, , .		0