

Chih-Hao Chang

List of Publications by Year in descending order

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72
papers

1,816
citations

279701

23
h-index

276775

41
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72
all docs

72
docs citations

72
times ranked

2366
citing authors

#	ARTICLE	IF	CITATIONS
1	Sapphire nanophotonics: Fabrication challenges and optical properties. <i>Micro and Nano Engineering</i> , 2022, 14, 100115.	1.4	4
2	Magnetically responsive polymer nanopillars with nickel cap. <i>Nanotechnology</i> , 2021, 32, 205301.	1.3	3
3	27â€4: Organic Lightâ€Emitting Diodes with Directional Polarized Light Emission. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 345-348.	0.1	0
4	Fabrication of Nonâ€Uniform Nanolattices with Spatially Varying Geometry and Material Composition. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100690.	1.9	7
5	Templated Assembly of Nanoparticles into Continuous Arrays. <i>Langmuir</i> , 2021, 37, 9098-9110.	1.6	3
6	Light extraction in tandem organic light emitting diodes. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	6
7	Fabrication of Nonâ€Uniform Nanolattices with Spatially Varying Geometry and Material Composition (<i>Adv. Mater. Interfaces</i> 17/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170092.	1.9	0
8	Directional Polarized Light Emission from Thinâ€Film Lightâ€Emitting Diodes. <i>Advanced Materials</i> , 2021, 33, e2006801.	11.1	35
9	Virtual metrology modeling of reactive ion etching based on statistics-based and dynamics-inspired spectral features. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021, 39, .	0.6	7
10	Multi-layered domain morphology in relaxor single crystals with nano-patterned composite electrode. <i>Acta Materialia</i> , 2020, 182, 10-17.	3.8	18
11	12â€1: Invited Paper: Directional SPP Emission in OLEDs Using Diffractive Optical Elements. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 146-148.	0.1	1
12	Mode Dispersion in Photonic Crystal Organic Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1759-1767.	2.0	14
13	Efficient Energy Funneling in Quasiâ€2D Perovskites: From Light Emission to Lasing. <i>Advanced Materials</i> , 2020, 32, e1906571.	11.1	134
14	Active Periodic Magnetic Nanostructures with High Aspect Ratio and Ultrahigh Pillar Density. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11135-11143.	4.0	17
15	Continuous roll-to-roll patterning of three-dimensional periodic nanostructures. <i>Microsystems and Nanoengineering</i> , 2020, 6, 22.	3.4	21
16	Enhancing optical transmission of multilayer composites using interfacial nanostructures. <i>Journal of Applied Physics</i> , 2019, 126, 063101.	1.1	7
17	Increasing etching depth of sapphire nanostructures using multilayer etching mask. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2019, 37, .	0.6	5
18	Recent progress in near-field nanolithography using light interactions with colloidal particles: from nanospheres to three-dimensional nanostructures. <i>Nanotechnology</i> , 2019, 30, 352002.	1.3	50

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19	Magnetically Actuated Dynamic Iridescence Inspired by the Neon Tetra. ACS Nano, 2019, 13, 4657-4666.	7.3	41
20	Twin photonic nanojets generated from coherent illumination of microscale sphere and cylinder. Nanotechnology, 2018, 29, 075204.	1.3	23
21	Patterned nano-domains in PMN-PT single crystals. Acta Materialia, 2018, 143, 166-173.	3.8	47
22	Atomic Layer Deposition: Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors (Adv. Mater. Interfaces 22(2018). Advanced Materials Interfaces, 2018, 5, 1870109.	1.9	1
23	Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors. Advanced Materials Interfaces, 2018, 5, 1801379.	1.9	4
24	Evaluation of Photoacoustic Transduction Efficiency of Candle Soot Nanocomposite Transmitters. IEEE Nanotechnology Magazine, 2018, 17, 985-993.	1.1	37
25	Three-dimensional colloidal interference lithography. Nanotechnology, 2017, 28, 125302.	1.3	3
26	Large-Area Nanolattice Film with Enhanced Modulus, Hardness, and Energy Dissipation. Scientific Reports, 2017, 7, 9145.	1.6	14
27	Nanostructured antireflective in-plane solar harvester. Optics Express, 2017, 25, A840.	1.7	6
28	Enhanced total internal reflection using low-index nanolattice materials. Optics Letters, 2017, 42, 4123.	1.7	4
29	Photoacoustic transduction efficiency evaluation of candle soot nanoparticles/PDMS composites., 2017, , .		2
30	Designing unit cell in three-dimensional periodic nanostructures using colloidal lithography. Optics Express, 2016, 24, A276.	1.7	19
31	Fabrication and structural properties of AlN submicron periodic lateral polar structures and waveguides for UV-C applications. Applied Physics Letters, 2016, 108, .	1.5	32
32	Wicking Enhancement in Three-Dimensional Hierarchical Nanostructures. Langmuir, 2016, 32, 8029-8033.	1.6	47
33	Fabrication and design of metal nano-accordion structures using atomic layer deposition and interference lithography. Nanoscale, 2016, 8, 4984-4990.	2.8	4
34	Ordered 3D Thin-Shell Nanolattice Materials with Near-Unity Refractive Indices. Advanced Functional Materials, 2015, 25, 6644-6649.	7.8	40
35	3D Nanostructures: Sculpting Asymmetric, Hollow-Core, Three-Dimensional Nanostructures Using Colloidal Particles (Small 11(2015). Small, 2015, 11, 1226-1226.	5.2	4
36	Fabrication of three-dimensional hierarchical nanostructures using template-directed colloidal assembly. Nanoscale, 2015, 7, 4406-4410.	2.8	10

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37	Multifunctional nano-accordion structures for stretchable transparent conductors. <i>Materials Horizons</i> , 2015, 2, 486-494.	6.4	29
38	Sculpting Asymmetric, Hollow-Core, Three-Dimensional Nanostructures Using Colloidal Particles. <i>Small</i> , 2015, 11, 1285-1292.	5.2	21
39	Three-Dimensional Nanolithography Using Light Scattering from Colloidal Particles. <i>ACS Nano</i> , 2013, 7, 6212-6218.	7.3	46
40	Antireflection effects at nanostructured material interfaces and the suppression of thin-film interference. <i>Nanotechnology</i> , 2013, 24, 235202.	1.3	60
41	Fabrication of subwavelength periodic nanostructures using liquid immersion Lloyd's mirror interference lithography. <i>Optics Letters</i> , 2013, 38, 2531.	1.7	36
42	Study on dielectric and piezoelectric properties of 0.7 Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3 PbTiO ₃ single crystal with nano-patterned composite electrode. <i>Journal of Applied Physics</i> , 2013, 114, 114103.	1.1	17
43	Bio-Improved Antireflection Nanostructures: Going Beyond the Moth Eye. , 2013, , .		0
44	Nanostructured In-Plane Solar Concentrator. , 2013, , .		0
45	Mass replication of multifunctional surface by nanoimprint of high aspect ratio tapered nanostructures. , 2012, , .		1
46	Nanotextured Silica Surfaces with Robust Superhydrophobicity and Omnidirectional Broadband Supertransmissivity. <i>ACS Nano</i> , 2012, 6, 3789-3799.	7.3	378
47	Talbot lithography using aperiodic structures. , 2011, , .		0
48	Diffraction efficiency of 200-nm-period critical-angle transmission gratings in the soft x-ray and extreme ultraviolet wavelength bands. <i>Applied Optics</i> , 2011, 50, 1364.	2.1	33
49	Nanostructured gradient-index antireflection diffractive optics. <i>Optics Letters</i> , 2011, 36, 2354.	1.7	66
50	From Two-Dimensional Colloidal Self-Assembly to Three-Dimensional Nanolithography. <i>Nano Letters</i> , 2011, 11, 2533-2537.	4.5	98
51	Assembling nanoparticle catalysts with nanospheres for periodic carbon nanotube structure growth. <i>Nanotechnology</i> , 2011, 22, 035301.	1.3	3
52	Gradient-Index Adiabatic Impedance Matching (GRIN-AIM) Antireflective Diffractive Optics. , 2011, , .		0
53	Design and optimization of broadband wide-angle antireflection structures for binary diffractive optics. <i>Optics Letters</i> , 2010, 35, 907.	1.7	10
54	High-efficiency 5000 lines/mm multilayer-coated blazed grating for extreme ultraviolet wavelengths. <i>Optics Letters</i> , 2010, 35, 2615.	1.7	42

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55	High-efficiency multilayer blazed gratings for EUV and soft x-rays: recent developments. Proceedings of SPIE, 2010, , .	0.8	15
56	Design and fabrication of dielectric nanostructured Luneburg lens in optical frequencies. , 2010, , .		4
57	Self-assembled ferrofluid lithography: patterning micro and nanostructures by controlling magnetic nanoparticles. Nanotechnology, 2009, 20, 495301.	1.3	24
58	5000 groove/mm multilayer-coated blazed grating with 33% efficiency in the 3rd order in the EUV wavelength range. Proceedings of SPIE, 2009, , .	0.8	6
59	Fabrication of 50 nm period gratings with multilevel interference lithography. Optics Letters, 2008, 33, 1572.	1.7	28
60	Design of a double-pass shear mode acousto-optic modulator. Review of Scientific Instruments, 2008, 79, 033104.	0.6	8
61	Spatial-frequency multiplication with multilevel interference lithography. Journal of Vacuum Science & Technology B, 2008, 26, 2135-2138.	1.3	2
62	Phase control in multiexposure spatial frequency multiplication. Journal of Vacuum Science & Technology B, 2007, 25, 2439.	1.3	5
63	Describing isotropic and anisotropic out-of-plane deformations in thin cubic materials by use of Zernike polynomials. Applied Optics, 2006, 45, 432.	2.1	3
64	Near-normal-incidence extreme-ultraviolet efficiency of a flat crystalline anisotropically etched blazed grating. Applied Optics, 2006, 45, 1676.	2.1	8
65	Efficiency of a grazing-incidence off-plane grating in the soft-x-ray region. Applied Optics, 2006, 45, 1680.	2.1	40
66	Doppler writing and linewidth control for scanning beam interference lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2640.	1.6	13
67	High fidelity blazed grating replication using nanoimprint lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 3260.	1.6	32
68	Grating arrays for high-throughput soft x-ray spectrometers. , 2004, , .		18
69	Advances in reflection grating technology for Constellation-X. , 2004, , .		12
70	Thin-foil reflection gratings for Constellation-X. , 2004, 5488, 283.		2
71	Nanometer-level repeatable metrology using the Nanoruler. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 3097.	1.6	48
72	Fabrication of sawtooth diffraction gratings using nanoimprint lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2755.	1.6	38