

# Chih-Ming Wang

## List of Publications by Year in descending order

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71  
papers

4,163  
citations

430874

18  
h-index

168389

53  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4296  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Broadband Anomalous Reflection by Gradient Meta-Surfaces. Nano Letters, 2012, 12, 6223-6229.	9.1	1,120
2	Optically reconfigurable metasurfaces and photonic devices based on phase change materials. Nature Photonics, 2016, 10, 60-65.	31.4	918
3	High-Efficiency Broadband Meta-Hologram with Polarization-Controlled Dual Images. Nano Letters, 2014, 14, 225-230.	9.1	655
4	Aluminum Plasmonic Multicolor Meta-Hologram. Nano Letters, 2015, 15, 3122-3127.	9.1	483
5	Visible Metasurfaces for On-Chip Polarimetry. ACS Photonics, 2018, 5, 2568-2573.	6.6	114
6	Homogenized LED-illumination using microlens arrays for a pocket-sized projector. Optics Express, 2007, 15, 10483.	3.4	95
7	Reflection and emission properties of an infrared emitter. Optics Express, 2007, 15, 14673.	3.4	57
8	Sensitive metal layer assisted guided mode resonance biosensor with a spectrum inversed response and strong asymmetric resonance field distribution. Optics Express, 2012, 20, 14584.	3.4	55
9	Passive temperature control based on a phase change metasurface. Scientific Reports, 2018, 8, 7684.	3.3	54
10	T-shaped plasmonic array as a narrow-band thermal emitter or biosensor. Optics Express, 2009, 17, 13526.	3.4	51
11	High efficiency pocket-size projector with a compact projection lens and a light emitting diode-based light source system. Applied Optics, 2008, 47, 3406.	2.1	47
12	Second Harmonic Light Manipulation with Vertical Split Ring Resonators. Advanced Materials, 2019, 31, e1806479.	21.0	44
13	High concentration and homogenized Fresnel lens without secondary optics element. Optics Communications, 2011, 284, 4283-4288.	2.1	33
14	Bulk-micromachined optical filter based on guided-mode resonance in silicon-nitride membrane. Journal of Lightwave Technology, 2006, 24, 1922-1928.	4.6	29
15	Spatial distribution of absorption in plasmonic thin film solar cells. Optics Express, 2010, 18, 11763.	3.4	24
16	Angle-independent plasmonic infrared band-stop reflective filter based on the Ag/SiO <sub>2</sub> /Ag T-shaped array. Optics Letters, 2011, 36, 1440.	3.3	24
17	Efficiency Improvement of HIT Solar Cells on p-Type Si Wafers. Materials, 2013, 6, 5440-5446.	2.9	23
18	Review of Metasurfaces and Metadevices: Advantages of Different Materials and Fabrications. Nanomaterials, 2022, 12, 1973.	4.1	19

#	ARTICLE	IF	CITATIONS
19	Enhancing the resonance quality factor in membrane-type resonant grating waveguides. Optics Letters, 2010, 35, 4199.	3.3	18
20	Monolithic integration of elliptic-symmetry diffractive optical element on silicon-based 45Å° micro-reflector. Optics Express, 2009, 17, 20938.	3.4	17
21	Integration of Non-Lambertian LED and Reflective Optical Element as Efficient Street Lamp. Optics Express, 2010, 18, A221.	3.4	17
22	Realization of free-space optical pickup head with stacked Si-based phase elements. IEEE Photonics Technology Letters, 2005, 17, 214-216.	2.5	16
23	Surface Plasmon assisted Cu <sub>x</sub> O photocatalyst for pure water splitting. Optics Express, 2013, 21, A221.	3.4	15
24	Dielectric function dependence on temperature for Au and Ag. Japanese Journal of Applied Physics, 2014, 53, 08MG02.	1.5	15
25	Silicon-based and suspended-membrane-type guided-mode resonance filters with a spectrum-modifying layer design. Optics Letters, 2006, 31, 3333.	3.3	14
26	Photocorrosion of plasmonic enhanced Cu <sub>x</sub> O photocatalyst. Journal of Nanophotonics, 2014, 8, 084095.	1.0	14
27	Plasmonic multilayer structure for ultrathin amorphous silicon film photovoltaic cell. Optical Review, 2009, 16, 343-346.	2.0	13
28	Anomalous reflection from metasurfaces with gradient phase distribution below 2f. Applied Physics Express, 2016, 9, 072502.	2.4	13
29	Single stage transmission type broadband solar concentrator. Optics Express, 2010, 18, A118.	3.4	11
30	Omnidirectional thermal emitter based on plasmonic nanoantenna arrays. Optics Express, 2014, 22, 1313.	3.4	11
31	A Polarization Control System for Intensity-Resolved Guided Mode Resonance Sensors. Sensors, 2014, 14, 5198-5206.	3.8	11
32	Free-Space Plasmonic Filter with Dual-Resonance Wavelength Using Asymmetric T-Shaped Metallic Array. Plasmonics, 2013, 8, 385-390.	3.4	10
33	Graphene oxide as the passivation layer for Cu <sub>x</sub> O photocatalyst on a plasmonic Au film and the corresponding photoluminescence study. Optics Express, 2015, 23, A1245.	3.4	10
34	Lambertian thermal emitter based on plasmonic enhanced absorption. Optics Express, 2016, 24, 18382.	3.4	10
35	Quasi-coherent thermal radiation with multiple resonant plasmonic cavities. Applied Physics Letters, 2016, 109, .	3.3	9
36	Three-Terminal Amorphous Silicon Solar Cells. International Journal of Photoenergy, 2011, 2011, 1-5.	2.5	8

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37	Plasmonic Infrared Bandstop Reflective Filter. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4601005-4601005.	2.9	8
38	Spatial filtering by using cascading plasmonic gratings. Optics Express, 2009, 17, 6218.	3.4	7
39	Impedance-Matching Surface Plasmon Absorber for FDTD Simulations. Plasmonics, 2010, 5, 51-55.	3.4	7
40	Polarization dependent light extraction of a GaN light emitting diode using dark field angle-resolved photoluminescence spectrometry. Optics Express, 2012, 20, 17952.	3.4	7
41	Refractive and Meta-Optics Hybrid System. Journal of Lightwave Technology, 2021, 39, 6880-6885.	4.6	6
42	Plasmon Tuning of Liquid Gallium Nanoparticles through Surface Anodization. Materials, 2022, 15, 2145.	2.9	6
43	Functional imprinting structures on GaN-based light-emitting diodes for light pattern modulation and light extraction efficiency enhancement. Optical Review, 2010, 17, 379-384.	2.0	5
44	Material-assisted metamaterial: a new dimension to create functional metamaterial. Scientific Reports, 2017, 7, 42076.	3.3	5
45	Scattering Analysis and Efficiency Optimization of Dielectric Pancharatnam Berry-Phase Metasurfaces. Nanomaterials, 2021, 11, 586.	4.1	5
46	Enhanced Heat-Electric Conversion via Photonic-Assisted Radiative Cooling. Nanomaterials, 2021, 11, 983.	4.1	5
47	New collection systems for multi LED light engines. Optical Review, 2009, 16, 318-322.	2.0	4
48	Silicon-based micro and subwavelength optical elements and applications. , 2006, , .		3
49	Fabrication and tolerance reduction of a Si-based pickup module for optical storage. Optical Engineering, 2006, 45, 074601.	1.0	3
50	Global solution of achromatic Total Internal Reflection prism in projection system. Optics Communications, 2018, 428, 144-151.	2.1	3
51	A general case of the overall phase modulation thought a dielectric PB-phase metasuraface. OSA Continuum, 0, , .	1.8	3
52	Design of Wide-Angle Low-Loss Waveguide Bends Using Phase-Compensated Effective Microprism. Japanese Journal of Applied Physics, 2007, 46, 5426.	1.5	2
53	Optical properties of light emitting diodes with a cascading plasmonic grating. Optics Express, 2010, 18, 25608.	3.4	2
54	Efficiency evaluation of a hybrid miniaturized concentrated photovoltaic for harvesting direct/diffused solar light. Journal of Optics (United Kingdom), 2019, 21, 035901.	2.2	2

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55	Angular-insensitive optical filtering based on meta-GMR. Optics Express, 2020, 28, 18018.	3.4	2
56	Highly efficient anomalous reflection by an optical metasurface. SPIE Newsroom, 0, , .	0.1	1
57	Transmission Enhancement through Single Slit Embedded in Plasmonic Multilayer Structure. Japanese Journal of Applied Physics, 2008, 47, 6713-6715.	1.5	0
58	Characterization of the Localized Surface Plasmon Ploariton Mode in Ag/SiO2/Ag T-shaped Array. , 2010, , .		0
59	Reflective Metasurface and Plasmonic Hologram Application. , 2014, , .		0
60	Optical properties of InGaN/GaN multiquantum wells light-emitting diode with one-dimensional Au nanoparticle grating. Journal of Nanophotonics, 2014, 8, 084097.	1.0	0
61	Polarization controlled colorful images reconstructed by reflective meta-hologram. Proceedings of SPIE, 2014, , .	0.8	0
62	Plasmonic Metasurface for Color Hologram. , 2015, , .		0
63	Reflective plasmonic metasurface and metahologram. , 2015, , .		0
64	Visible light active photocatalyst from recycled disposable heating pads. Journal of Nanophotonics, 2016, 10, 016016.	1.0	0
65	Plasmonic meta-holograms (Conference Presentation). , 2017, , .		0
66	Efficiency evaluation of hybrid concentrated photovoltaic under direct and diffuse illumination. , 2017, , .		0
67	Temporal and Spatial Modification of Thermal Radiation. , 2019, , .		0
68	Influence of electrode materials on molybdenum oxide/n-Si photodetectors. Journal Physics D: Applied Physics, 2020, 53, 045101.	2.8	0
69	Monolithic Integration of Diffractive Optical Element on Silicon 45-Degree Micro-reflector. , 2009, , .		0
70	Meta-holograms for colorful image storage. SPIE Newsroom, 0, , .	0.1	0
71	Off-axis focusing by using nanoimprinted dielectric metasurface with free-form phase distribution. OSA Continuum, 0, , .	1.8	0