Pin Chieh Wu

List of Publications by Year in Descending Order

72 papers	5,247 citations	35 h-index	72 g-index
96 ext. papers	6,505 ext. citations	8.8 avg, IF	5.64 L-index

#	Paper	IF	Citations
72	Optical Resonator Enhanced Photovoltaics and Photocatalysis: Fundamental and Recent Progress. *Laser and Photonics Reviews*, **2022**, 16, 2100202	8.3	6
71	Enhanced photoluminescence and shortened lifetime of DCJTB by photoinduced metal deposition on a ferroelectric lithography substrate.. *Scientific Reports*, **2022**, 12, 6173	4.9	0
70	Electrically Tunable and Dramatically Enhanced Valley-Polarized Emission of Monolayer WS at Room Temperature with Plasmonic Archimedes Spiral Nanostructures. *Advanced Materials*, **2021**, e2104863	24	7
69	Topological Encoded Vector Beams for Monitoring Amyloid-Lipid Interactions in Microcavity. *Advanced Science*, **2021**, 8, 2100096	13.6	4
68	Near-Infrared Active Metasurface for Dynamic Polarization Conversion. *Advanced Optical Materials*, **2021**, 9, 2100230	8.1	9
67	Broadband decoupling of intensity and polarization with vectorial Fourier metasurfaces. *Nature Communications*, **2021**, 12, 3631	17.4	19
66	Automatic Inverse Design of High-Performance Beam-Steering Metasurfaces via Genetic-type Tree Optimization. *Nano Letters*, **2021**, 21, 4981-4989	11.5	8
65	A Toroidal-Fano-Resonant Metasurface with Optimal Cross-Polarization Efficiency and Switchable Nonlinearity in the Near-Infrared. *Advanced Optical Materials*, **2021**, 9, 2101007	8.1	4
64	Electro-optically Tunable Multifunctional Metasurfaces. *ACS Nano*, **2020**, 14, 6912-6920	16.7	96
63	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. *Physical Review Letters*, **2020**, 125, 043901	7.4	15
62	Achromatic metalens array for full-colour light-field imaging. *Nature Nanotechnology*, **2019**, 14, 227-231	28.7	219
61	Phase Modulation with Electrically Tunable Vanadium Dioxide Phase-Change Metasurfaces. *Nano Letters*, **2019**, 19, 3961-3968	11.5	105
60	Split Archimedean spiral metasurface for controllable GHz asymmetric transmission. *Applied Physics Letters*, **2019**, 114, 151105	3.4	18
59	Photonic crystal fiber metalens. *Nanophotonics*, **2019**, 8, 443-449	6.3	45
58	Dynamic beam steering with all-dielectric electro-optic III-V multiple-quantum-well metasurfaces. *Nature Communications*, **2019**, 10, 3654	17.4	80
57	Twisted Surface Plasmons with Spin-Controlled Gold Surfaces. *Advanced Optical Materials*, **2019**, 7, 1801660	8.0	25
56	Second Harmonic Light Manipulation with Vertical Split Ring Resonators. *Advanced Materials*, **2019**, 31, e1806479	24	26

55	Integrated Resonant Unit of Metasurfaces for Broadband Efficiency and Phase Manipulation. *Advanced Optical Materials*, **2018**, 6, 1800031	8.1	41
54	Ultrathin Planar Cavity Metasurfaces. *Small*, **2018**, 14, e1703920	11	24
53	Optical Anapole Metamaterial. *ACS Nano*, **2018**, 12, 1920-1927	16.7	142
52	A broadband achromatic metalens in the visible. *Nature Nanotechnology*, **2018**, 13, 227-232	28.7	723
51	Comparative Analysis of Metals and Alternative Infrared Plasmonic Materials. *ACS Photonics*, **2018**, 5, 2541-2548	6.3	38
50	Integrated-Resonant Units: Integrated Resonant Unit of Metasurfaces for Broadband Efficiency and Phase Manipulation (Advanced Optical Materials 12/2018). *Advanced Optical Materials*, **2018**, 6, 1870047	8.1	2
49	Photonic crystal fiber metalens enabled by geometric phase optical metasurfaces **2018**,		2
48	Visible Metasurfaces for On-Chip Polarimetry. *ACS Photonics*, **2018**, 5, 2568-2573	6.3	72
47	Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. *Advanced Optical Materials*, **2017**, 5, 1600938	8.1	123
46	Material-assisted metamaterial: a new dimension to create functional metamaterial. *Scientific Reports*, **2017**, 7, 42076	4.9	4
45	Adaptable metasurface for dynamic anomalous reflection. *Applied Physics Letters*, **2017**, 110, 201904	3.4	29
44	Liquid-metal-based metasurface for terahertz absorption material: Frequency-agile and wide-angle. *APL Materials*, **2017**, 5, 066103	5.7	29
43	Microfluidic Metasurfaces: Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface (Advanced Optical Materials 7/2017). *Advanced Optical Materials*, **2017**, 5,	8.1	1
42	Coherent selection of invisible high-order electromagnetic excitations. *Scientific Reports*, **2017**, 7, 44488	4.9	18
41	Water-Resonator-Based Metasurface: An Ultrabroadband and Near-Unity Absorption. *Advanced Optical Materials*, **2017**, 5, 1601103	8.1	76
40	Versatile Polarization Generation with an Aluminum Plasmonic Metasurface. *Nano Letters*, **2017**, 17, 445-452	11.5	220
39	GaN Metalens for Pixel-Level Full-Color Routing at Visible Light. *Nano Letters*, **2017**, 17, 6345-6352	11.5	197
38	Broadband achromatic optical metasurface devices. *Nature Communications*, **2017**, 8, 187	17.4	461

37	Isotropic Absorption and Sensor of Vertical Split-Ring Resonator. *Advanced Optical Materials*, **2017**, 5, 1600581	8.1	55
36	Active dielectric metasurface based on phase-change medium (Laser Photonics Rev. 10(6)/2016). *Laser and Photonics Reviews*, **2016**, 10, 1063-1063	8.3	9
35	Self-Affine Graphene Metasurfaces for Tunable Broadband Absorption. *Physical Review Applied*, **2016**, 6,	4.3	64
34	Dynamic metasurface for broadband electromagnetic modulator in reflection **2016**,		3
33	Tunable metamaterials for terahertz ultra-broadband absorption driven by microfluidics **2016**,		1
32	Active dielectric metasurface based on phase-change medium. *Laser and Photonics Reviews*, **2016**, 10, 986-994	8.3	220
31	Plasmon coupling in vertical split-ring resonator metamolecules. *Scientific Reports*, **2015**, 5, 9726	4.9	53
30	Vertical split-ring resonator based anomalous beam steering with high extinction ratio. *Scientific Reports*, **2015**, 5, 11226	4.9	40
29	Aluminum plasmonic multicolor meta-hologram. *Nano Letters*, **2015**, 15, 3122-7	11.5	373
28	Optical toroidal response in three-dimensional plasmonic metamaterial **2015**,		3
27	Vertical split-ring resonators for plasmon coupling, sensing and metasurface **2015**,		1
26	Plasmon-induced hyperthermia: hybrid upconversion NaYF:Yb/Er and gold nanomaterials for oral cancer photothermal therapy. *Journal of Materials Chemistry B*, **2015**, 3, 8293-8302	7.3	55
25	Ag-Si artificial microflowers for plasmon-enhanced solar water splitting. *Chemical Communications*, **2015**, 51, 549-52	5.8	30
24	A flat lens with tunable phase gradient by using random access reconfigurable metamaterial. *Advanced Materials*, **2015**, 27, 4739-43	24	92
23	Manipulation of spectral amplitude and phase with plasmonic nano-structures for information storage. *Frontiers of Optoelectronics*, **2014**, 7, 437-442	2.8	2
22	Enhanced sensitivity of surface plasmon resonance phase-interrogation biosensor by using oblique deposited silver nanorods. *Nanoscale Research Letters*, **2014**, 9, 476	5	14
21	Vertical split-ring resonator based nanoplasmonic sensor. *Applied Physics Letters*, **2014**, 105, 033105	3.4	64
20	Three-dimensional metamaterials: from split ring resonator to toroidal metamolecule **2014**,		5

19	Hydrogen Generation: Plasmonic ZnO/Ag Embedded Structures as Collecting Layers for Photogenerating Electrons in Solar Hydrogen Generation Photoelectrodes (Small 17/2013). *Small*, **2013**, 9, 2830-2830	11	
18	Toroidal lasing spaser. *Scientific Reports*, **2013**, 3, 1237	4.9	99
17	Plasmonic ZnO/Ag embedded structures as collecting layers for photogenerating electrons in solar hydrogen generation photoelectrodes. *Small*, **2013**, 9, 2926-36	11	72
16	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. *Optics Express*, **2013**, 21, 618-25	3.3	19
15	Multi-level surface enhanced Raman scattering using AgOx thin film. *Optics Express*, **2013**, 21, 24460-7	3.3	33
14	Improved Photocatalytic Activity of Shell-Isolated Plasmonic Photocatalyst 2/TiO2 by Promoted LSPR. *Journal of Physical Chemistry C*, **2012**, 116, 26535-26542	3.8	87
13	Plasmon inducing effects for enhanced photoelectrochemical water splitting: X-ray absorption approach to electronic structures. *ACS Nano*, **2012**, 6, 7362-72	16.7	283
12	Fabrication of multilayer metamaterials by femtosecond laser-induced forward-transfer technique. *Laser and Photonics Reviews*, **2012**, 6, 702-707	8.3	40
11	Magnetic plasmon induced transparency in three-dimensional metamolecules. *Nanophotonics*, **2012**, 1, 131-138	6.3	57
10	Fabrication of three dimensional split ring resonators by stress-driven assembly method. *Optics Express*, **2012**, 20, 9415-20	3.3	45
9	Design of plasmonic toroidal metamaterials at optical frequencies. *Optics Express*, **2012**, 20, 1760-8	3.3	137
8	Tunable plasmonic resonance arising from broken-symmetric silver nanobeads with dielectric cores. *Journal of Optics (United Kingdom)*, **2012**, 14, 114010	1.7	37
7	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. *Optics Express*, **2011**, 19, 12837-42	3.3	77
6	Plasmonic Photocatalyst for H2 Evolution in Photocatalytic Water Splitting. *Journal of Physical Chemistry C*, **2011**, 115, 210-216	3.8	220
5	Manipulation of multidimensional plasmonic spectra for information storage. *Applied Physics Letters*, **2011**, 98, 171106	3.4	20
4	Electromagnetic energy vortex associated with sub-wavelength plasmonic Taiji marks. *Optics Express*, **2010**, 18, 19665-71	3.3	35
3	Toroidal-Assisted Generalized Huygens Sources for Highly Transmissive Plasmonic Metasurfaces. *Laser and Photonics Reviews*,2100525	8.3	1
2	Multifunctional Virus Manipulation with Large-Scale Arrays of All-Dielectric Resonant Nanocavities. *Laser and Photonics Reviews*,2100197	8.3	4

1	Direct Imaging of Weak-to-Strong-Coupling Dynamics in Biological Plasmon-Exciton Systems. *Laser and Photonics Reviews*,2200016	8.3	1