

Yao-Wei Huang

List of Publications by Year in descending order

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63
papers

4,763
citations

201674

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4170
citing authors

#	ARTICLE	IF	CITATIONS
1	Metasurface-based bijective illumination collection imaging provides high-resolution tomography in three dimensions. <i>Nature Photonics</i> , 2022, 16, 203-211.	31.4	24
2	Ultracompact Nanophotonics: Light Emission and Manipulation with Metasurfaces. <i>Nanoscale Research Letters</i> , 2022, 17, 41.	5.7	9
3	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality. <i>Nature Communications</i> , 2022, 13, 2409.	12.8	82
4	Review of Metasurfaces and Metadevices: Advantages of Different Materials and Fabrications. <i>Nanomaterials</i> , 2022, 12, 1973.	4.1	19
5	Compact Incoherent Spatial Frequency Filtering Enabled by Metasurface Engineering. , 2021, , .		0
6	Reply to: Reconsidering metasurface lasers. <i>Nature Photonics</i> , 2021, 15, 339-340.	31.4	1
7	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , 2021, 7, .	10.3	142
8	Extreme Optics: Inverse Design and Experimental Realizations of Ultra-Large-Area Complex Meta-Optics. , 2021, , .		0
9	Slow light nanocoatings for ultrashort pulse compression. <i>Nature Communications</i> , 2021, 12, 6518.	12.8	12
10	Structured Semiconductor Interfaces: Active Functionality on Light Manipulation. <i>Proceedings of the IEEE</i> , 2020, 108, 772-794.	21.3	16
11	Enhancing the modal purity of orbital angular momentum photons. <i>APL Photonics</i> , 2020, 5, 070802.	5.7	28
12	Continuous angle-tunable birefringence with freeform metasurfaces for arbitrary polarization conversion. <i>Science Advances</i> , 2020, 6, eaba3367.	10.3	143
13	High-purity orbital angular momentum states from a visible metasurface laser. <i>Nature Photonics</i> , 2020, 14, 498-503.	31.4	230
14	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	1.0	13
15	Invited Paper: A Large RGB-achromatic Metalens for Virtual/Augmented Reality Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 575-578.	0.3	0
16	A metalens-based virtual reality (VR) / augmented reality (AR) system. , 2020, , .		0
17	Generation of arbitrary higher order Poincaré beams from a visible metasurface laser. , 2020, , .		1
18	High purity twisted light from a metasurface solid state resonator. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Dielectric multi-momentum meta-transformer in the visible. Nature Communications, 2019, 10, 4789.	12.8	82
20	Compact single-shot metalens depth sensors inspired by eyes of jumping spiders. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22959-22965.	7.1	105
21	Versatile total angular momentum generation using cascaded J-plates. Optics Express, 2019, 27, 7469.	3.4	39
22	Compact Aberration-Corrected Spectrometers in the Visible Using Dispersion-Tailored Metasurfaces. Advanced Optical Materials, 2019, 7, 1801144.	7.3	52
23	Dispersion-engineered metasurfaces for aberration-corrected spectroscopy. , 2019, , .		0
24	Single-Layer Metasurface with Controllable Multiwavelength Functions. Nano Letters, 2018, 18, 2420-2427.	9.1	165
25	Giant intrinsic chiro-optical activity in planar dielectric nanostructures. Light: Science and Applications, 2018, 7, 17158-17158.	16.6	234
26	Ultrathin Planar Cavity Metasurfaces. Small, 2018, 14, e1703920.	10.0	30
27	Optical Anapole Metamaterial. ACS Nano, 2018, 12, 1920-1927.	14.6	216
28	Broadband Achromatic Metasurface-Refractive Optics. Nano Letters, 2018, 18, 7801-7808.	9.1	138
29	Nano-optic endoscope for high-resolution optical coherence tomography in vivo. Nature Photonics, 2018, 12, 540-547.	31.4	255
30	High-resolution optical coherence tomography in vivo using a nano-optic endoscope. , 2018, , .		0
31	Giant intrinsic chiro-optical activity in planar nanostructures. , 2018, , .		3
32	Versatile Polarization Generation with an Aluminum Plasmonic Metasurface. Nano Letters, 2017, 17, 445-452.	9.1	318
33	Gate-Tunable Conducting Oxide Metasurfaces. Nano Letters, 2016, 16, 5319-5325.	9.1	552
34	Vertical Split-Ring Resonator based Metasurface for Light Manipulation. , 2016, , .		0
35	Fabrication and measurement of vertical split-ring resonators for light manipulation and metasurface. , 2015, , .		0
36	Vertical split-ring resonators based plasmon coupling, nanophotonic sensing and light manipulation. , 2015, , .		0

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37	Plasmon coupling in vertical split-ring resonator metamolecules. Scientific Reports, 2015, 5, 9726.	3.3	71
38	Vertical split-ring resonator based anomalous beam steering with high extinction ratio. Scientific Reports, 2015, 5, 11226.	3.3	51
39	Aluminum Plasmonic Multicolor Meta-Hologram. Nano Letters, 2015, 15, 3122-3127.	9.1	483
40	Plasmonic Metasurface for Color Hologram. , 2015, , .		0
41	Plasmon coupling in vertical split-ring resonator magnetic metamolecules. , 2015, , .		1
42	Optical toroidal response in three-dimensional plasmonic metamaterial. , 2015, , .		4
43	Vertical split-ring resonators for plasmon coupling, sensing and metasurface. Proceedings of SPIE, 2015, , .	0.8	1
44	Reflective plasmonic metasurface and metahologram. , 2015, , .		0
45	Metamaterials: From 3D Plasmonic Nanostructure to Reflective Metasurface. , 2014, , .		0
46	Vertical split-ring resonator based nanoplasmonic sensor. Applied Physics Letters, 2014, 105, .	3.3	86
47	Three-dimensional metamaterials: from split ring resonator to toroidal metamolecule. , 2014, , .		6
48	Polarization controlled colorful images reconstructed by reflective meta-hologram. Proceedings of SPIE, 2014, , .	0.8	0
49	High-Efficiency Broadband Meta-Hologram with Polarization-Controlled Dual Images. Nano Letters, 2014, 14, 225-230.	9.1	655
50	Vertical split-ring resonator based nanoplasmonic sensor. , 2014, , .		1
51	Toroidal Lasing Spaser. Scientific Reports, 2013, 3, 1237.	3.3	114
52	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. Optics Express, 2013, 21, 618.	3.4	22
53	Three-Dimensional Light Manipulation by Gold Nanobumps. , 2013, , .		0
54	Design of plasmonic toroidal metamaterials at optical frequencies. Optics Express, 2012, 20, 1760.	3.4	153

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55	Tunable plasmonic resonance arising from broken-symmetric silver nanobeads with dielectric cores. Journal of Optics (United Kingdom), 2012, 14, 114010.	2.2	54
56	Toroidal photonic metamaterial. , 2012, , .		0
57	Fast Fabrication of a Ag Nanostructure Substrate Using the Femtosecond Laser for Broad-Band and Tunable Plasmonic Enhancement. ACS Nano, 2012, 6, 5190-5197.	14.6	67
58	Light Manipulation by Gold Nanobumps. Plasmonics, 2012, 7, 563-569.	3.4	12
59	Fabrication of plasmonic devices using femtosecond laser-induced forward transfer technique. Nanotechnology, 2012, 23, 444013.	2.6	21
60	Applications of plasmonic hotspots on laser-treated AgOx thin film. , 2012, , .		0
61	Toroidal and magnetic spectral responses of four split-ring resonators. , 2011, , .		0
62	Dispersion properties, birefringence and confinement loss of rotational elliptic air-hole photonic crystal fiber. Applied Physics A: Materials Science and Processing, 2011, 104, 857-861.	2.3	5
63	Design of high birefringence and low confinement loss photonic crystal fibers with five rings hexagonal and octagonal symmetry air-holes in fiber cladding. Journal of Applied Physics, 2011, 109, .	2.5	47