

Chia Wei Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,872
citations

159358

30
h-index

189595

50
g-index

61
all docs

61
docs citations

61
times ranked

4594
citing authors

#	ARTICLE	IF	CITATIONS
1	Depth-targeted energy delivery deep inside scattering media. <i>Nature Physics</i> , 2022, 18, 309-315.	6.5	18
2	Momentum-space imaging spectroscopy for the study of nanophotonic materials. <i>Science Bulletin</i> , 2021, 66, 824-838.	4.3	18
3	Induced transparency by interference or polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
4	Using symmetry bandgaps to create a line of bound states in the continuum in 3D photonic crystals. , 2021, , .		0
5	Customizing the Angular Memory Effect for Scattering Media. <i>Physical Review X</i> , 2021, 11, .	2.8	5
6	Using symmetry bandgaps to create bound states in the continuum in 3D photonic crystals. , 2021, , .		0
7	Observation of bound states in the continuum embedded in symmetry bandgaps. <i>Science Advances</i> , 2021, 7, eabk1117.	4.7	22
8	Theory of reflectionless scattering modes. <i>Physical Review A</i> , 2020, 102, .	1.0	47
9	Electromagnetically induced transparency at a chiral exceptional point. <i>Nature Physics</i> , 2020, 16, 334-340.	6.5	156
10	Reflectionless excitation of arbitrary photonic structures: a general theory. <i>Nanophotonics</i> , 2020, 10, 343-360.	2.9	12
11	Long-range spatio-temporal correlations in multimode fibers for pulse delivery. <i>Nature Communications</i> , 2019, 10, 2973.	5.8	26
12	Bound States in the Continuum through Environmental Design. <i>Physical Review Letters</i> , 2019, 123, 023902.	2.9	48
13	Bound States in the Continuum in Fiber Bragg Gratings. <i>ACS Photonics</i> , 2019, 6, 2996-3002.	3.2	62
14	Angular Memory Effect of Transmission Eigenchannels. <i>Physical Review Letters</i> , 2019, 123, 203901.	2.9	20
15	Quantum Noise Theory of Exceptional Point Amplifying Sensors. <i>Physical Review Letters</i> , 2019, 123, 180501.	2.9	140
16	Perfectly Absorbing Exceptional Points and Chiral Absorbers. <i>Physical Review Letters</i> , 2019, 122, 093901.	2.9	101
17	Transverse localization of transmission eigenchannels. <i>Nature Photonics</i> , 2019, 13, 352-358.	15.6	44
18	Scattering concentration bounds: brightness theorems for waves. <i>Optica</i> , 2019, 6, 1321.	4.8	18

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19	Bound states in the continuum through environment engineering. , 2019, , .		0
20	Observation of bulk Fermi arc and polarization half charge from paired exceptional points. Science, 2018, 359, 1009-1012.	6.0	438
21	Observation of Polarization Vortices in Momentum Space. Physical Review Letters, 2018, 120, 186103.	2.9	168
22	Statistical description of transport in multimode fibers with mode-dependent loss. New Journal of Physics, 2018, 20, 113028.	1.2	7
23	Complete polarization control in multimode fibers with polarization and mode coupling. Light: Science and Applications, 2018, 7, 54.	7.7	68
24	Correlation-enhanced control of wave focusing in disordered media. Nature Physics, 2017, 13, 497-502.	6.5	77
25	General theory of spontaneous emission near exceptional points. Optics Express, 2017, 25, 12325.	1.7	118
26	Spawning Rings of Exceptional Points out of Dirac Cones. , 2016, , .		1
27	Perfect single-sided radiation and absorption without mirrors. Optica, 2016, 3, 1079.	4.8	69
28	Formation mechanism of guided resonances and bound states in the continuum in photonic crystal slabs. Scientific Reports, 2016, 6, 31908.	1.6	98
29	Broadband angular selectivity of light at the nanoscale: Progress, applications, and outlook. Applied Physics Reviews, 2016, 3, 011103.	5.5	59
30	Polarization control of light transmission through a multimode fiber with strong polarization mixing. , 2016, , .		0
31	Efficient, designable, and broad-bandwidth optical extinction via aspect-ratio-tailored silver nanodisks. Optics Express, 2016, 24, 10806.	1.7	2
32	Direct imaging of isofrequency contours in photonic structures. Science Advances, 2016, 2, e1601591.	4.7	25
33	Fundamental limits to optical response in absorptive systems. Optics Express, 2016, 24, 3329.	1.7	124
34	Controlling Directionality and Dimensionality of Radiation by Perturbing Separable Bound States in the Continuum. Scientific Reports, 2016, 6, 33394.	1.6	30
35	Bound states in the continuum. Nature Reviews Materials, 2016, 1, .	23.3	1,774
36	Optically Thin Metallic Films for High-Radiative-Efficiency Plasmonics. Nano Letters, 2016, 16, 4110-4117.	4.5	14

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37	Substrate-Independent Light Confinement in Bioinspired All-Dielectric Surface Resonators. ACS Photonics, 2016, 3, 532-536.	3.2	9
38	Topological Theory of Disallowed Couplings. , 2016, , .		0
39	Broadband Coherent Enhancement of Transmission and Absorption in Disordered Media. Physical Review Letters, 2015, 115, 223901.	2.9	41
40	Coherent Plasmon-Exciton Coupling in Silver Platelet-J-aggregate Nanocomposites. Nano Letters, 2015, 15, 2588-2593.	4.5	98
41	Optimization of sharp and viewing-angle-independent structural color. Optics Express, 2015, 23, 9516.	1.7	11
42	Spawning rings of exceptional points out of Dirac cones. Nature, 2015, 525, 354-358.	13.7	610
43	Spawning Rings of Exceptional Points out of Dirac Cones. , 2015, , .		1
44	Designing Transparent Structural Color. , 2015, , .		0
45	Topological Nature of Optical Bound States in the Continuum. Physical Review Letters, 2014, 113, 257401.	2.9	595
46	Transparent displays enabled by resonant nanoparticle scattering. Nature Communications, 2014, 5, 3152.	5.8	186
47	Theoretical Criteria for Scattering Dark States in Nanostructured Particles. Nano Letters, 2014, 14, 2783-2788.	4.5	83
48	Fundamental Limits to Extinction by Metallic Nanoparticles. Physical Review Letters, 2014, 112, 123903.	2.9	70
49	Novel phenomena in nano-photonic systems of macroscopic sizes. , 2014, , .		0
50	Observation of trapped light within the radiation continuum. Nature, 2013, 499, 188-191.	13.7	950
51	Bloch surface eigenstates within the radiation continuum. Light: Science and Applications, 2013, 2, e84-e84.	7.7	163
52	Layer-by-layer self-assembly of plexcitonic nanoparticles. Optics Express, 2013, 21, 19103.	1.7	20
53	Ab initio determination of coarse-grained interactions in double-stranded DNA. Journal of Chemical Physics, 2012, 137, 105102.	1.2	33
54	Theoretical Description of a DNA-Linked Nanoparticle Self-Assembly. Physical Review Letters, 2010, 105, 055502.	2.9	38

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55	Migration and fractionation of deformable particles in microchannel. Journal of Chemical Physics, 2010, 133, 034906.	1.2	25
56	Valency Dependence of Polymorphism and Polyamorphism in DNA-Functionalized Nanoparticles. Langmuir, 2010, 26, 3601-3608.	1.6	37
57	Interpenetration as a mechanism for liquid-liquid phase transitions. Physical Review E, 2009, 79, 041502.	0.8	6
58	Hierarchies of networked phases induced by multiple liquid-liquid critical points. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13711-13715.	3.3	67