

Chia Wei Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,872
citations

159585

30
h-index

189892

50
g-index

61
all docs

61
docs citations

61
times ranked

4594
citing authors

#	ARTICLE	IF	CITATIONS
1	Bound states in the continuum. Nature Reviews Materials, 2016, 1, .	48.7	1,774
2	Observation of trapped light within the radiation continuum. Nature, 2013, 499, 188-191.	27.8	950
3	Spawning rings of exceptional points out of Dirac cones. Nature, 2015, 525, 354-358.	27.8	610
4	Topological Nature of Optical Bound States in the Continuum. Physical Review Letters, 2014, 113, 257401.	7.8	595
5	Observation of bulk Fermi arc and polarization half charge from paired exceptional points. Science, 2018, 359, 1009-1012.	12.6	438
6	Transparent displays enabled by resonant nanoparticle scattering. Nature Communications, 2014, 5, 3152.	12.8	186
7	Observation of Polarization Vortices in Momentum Space. Physical Review Letters, 2018, 120, 186103.	7.8	168
8	Bloch surface eigenstates within the radiation continuum. Light: Science and Applications, 2013, 2, e84-e84.	16.6	163
9	Electromagnetically induced transparency at a chiral exceptional point. Nature Physics, 2020, 16, 334-340.	16.7	156
10	Quantum Noise Theory of Exceptional Point Amplifying Sensors. Physical Review Letters, 2019, 123, 180501.	7.8	140
11	Fundamental limits to optical response in absorptive systems. Optics Express, 2016, 24, 3329.	3.4	124
12	General theory of spontaneous emission near exceptional points. Optics Express, 2017, 25, 12325.	3.4	118
13	Perfectly Absorbing Exceptional Points and Chiral Absorbers. Physical Review Letters, 2019, 122, 093901.	7.8	101
14	Coherent Plasmon-Exciton Coupling in Silver Platelet-J-aggregate Nanocomposites. Nano Letters, 2015, 15, 2588-2593.	9.1	98
15	Formation mechanism of guided resonances and bound states in the continuum in photonic crystal slabs. Scientific Reports, 2016, 6, 31908.	3.3	98
16	Theoretical Criteria for Scattering Dark States in Nanostructured Particles. Nano Letters, 2014, 14, 2783-2788.	9.1	83
17	Correlation-enhanced control of wave focusing in disordered media. Nature Physics, 2017, 13, 497-502.	16.7	77
18	Fundamental Limits to Extinction by Metallic Nanoparticles. Physical Review Letters, 2014, 112, 123903.	7.8	70

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19	Perfect single-sided radiation and absorption without mirrors. <i>Optica</i> , 2016, 3, 1079.	9.3	69
20	Complete polarization control in multimode fibers with polarization and mode coupling. <i>Light: Science and Applications</i> , 2018, 7, 54.	16.6	68
21	Hierarchies of networked phases induced by multiple liquid-liquid critical points. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13711-13715.	7.1	67
22	Bound States in the Continuum in Fiber Bragg Gratings. <i>ACS Photonics</i> , 2019, 6, 2996-3002.	6.6	62
23	Broadband angular selectivity of light at the nanoscale: Progress, applications, and outlook. <i>Applied Physics Reviews</i> , 2016, 3, 011103.	11.3	59
24	Bound States in the Continuum through Environmental Design. <i>Physical Review Letters</i> , 2019, 123, 023902.	7.8	48
25	Theory of reflectionless scattering modes. <i>Physical Review A</i> , 2020, 102, .	2.5	47
26	Transverse localization of transmission eigenchannels. <i>Nature Photonics</i> , 2019, 13, 352-358.	31.4	44
27	Broadband Coherent Enhancement of Transmission and Absorption in Disordered Media. <i>Physical Review Letters</i> , 2015, 115, 223901.	7.8	41
28	Theoretical Description of a DNA-Linked Nanoparticle Self-Assembly. <i>Physical Review Letters</i> , 2010, 105, 055502.	7.8	38
29	Valency Dependence of Polymorphism and Polyamorphism in DNA-Functionalized Nanoparticles. <i>Langmuir</i> , 2010, 26, 3601-3608.	3.5	37
30	Ab initio determination of coarse-grained interactions in double-stranded DNA. <i>Journal of Chemical Physics</i> , 2012, 137, 105102.	3.0	33
31	Controlling Directionality and Dimensionality of Radiation by Perturbing Separable Bound States in the Continuum. <i>Scientific Reports</i> , 2016, 6, 33394.	3.3	30
32	Long-range spatio-temporal correlations in multimode fibers for pulse delivery. <i>Nature Communications</i> , 2019, 10, 2973.	12.8	26
33	Migration and fractionation of deformable particles in microchannel. <i>Journal of Chemical Physics</i> , 2010, 133, 034906.	3.0	25
34	Direct imaging of isofrequency contours in photonic structures. <i>Science Advances</i> , 2016, 2, e1601591.	10.3	25
35	Observation of bound states in the continuum embedded in symmetry bandgaps. <i>Science Advances</i> , 2021, 7, eabk1117.	10.3	22
36	Layer-by-layer self-assembly of plexcitonic nanoparticles. <i>Optics Express</i> , 2013, 21, 19103.	3.4	20

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37	Angular Memory Effect of Transmission Eigenchannels. <i>Physical Review Letters</i> , 2019, 123, 203901.	7.8	20
38	Momentum-space imaging spectroscopy for the study of nanophotonic materials. <i>Science Bulletin</i> , 2021, 66, 824-838.	9.0	18
39	Induced transparency by interference or polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
40	Scattering concentration bounds: brightness theorems for waves. <i>Optica</i> , 2019, 6, 1321.	9.3	18
41	Depth-targeted energy delivery deep inside scattering media. <i>Nature Physics</i> , 2022, 18, 309-315.	16.7	18
42	Optically Thin Metallic Films for High-Radiative-Efficiency Plasmonics. <i>Nano Letters</i> , 2016, 16, 4110-4117.	9.1	14
43	Reflectionless excitation of arbitrary photonic structures: a general theory. <i>Nanophotonics</i> , 2020, 10, 343-360.	6.0	12
44	Optimization of sharp and viewing-angle-independent structural color. <i>Optics Express</i> , 2015, 23, 9516.	3.4	11
45	Substrate-Independent Light Confinement in Bioinspired All-Dielectric Surface Resonators. <i>ACS Photonics</i> , 2016, 3, 532-536.	6.6	9
46	Statistical description of transport in multimode fibers with mode-dependent loss. <i>New Journal of Physics</i> , 2018, 20, 113028.	2.9	7
47	Interpenetration as a mechanism for liquid-liquid phase transitions. <i>Physical Review E</i> , 2009, 79, 041502.	2.1	6
48	Customizing the Angular Memory Effect for Scattering Media. <i>Physical Review X</i> , 2021, 11, .	8.9	5
49	Efficient, designable, and broad-bandwidth optical extinction via aspect-ratio-tailored silver nanodisks. <i>Optics Express</i> , 2016, 24, 10806.	3.4	2
50	Spawning Rings of Exceptional Points out of Dirac Cones. , 2016, , .		1
51	Spawning Rings of Exceptional Points out of Dirac Cones. , 2015, , .		1
52	Novel phenomena in nano-photonic systems of macroscopic sizes. , 2014, , .		0
53	Polarization control of light transmission through a multimode fiber with strong polarization mixing. , 2016, , .		0
54	Using symmetry bandgaps to create a line of bound states in the continuum in 3D photonic crystals. , 2021, , .		0

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55	Using symmetry bandgaps to create bound states in the continuum in 3D photonic crystals. , 2021, , .		0
56	Designing Transparent Structural Color. , 2015, , .		0
57	Topological Theory of Disallowed Couplings. , 2016, , .		0
58	Bound states in the continuum through environment engineering. , 2019, , .		0