

# Yihao Yang

## List of Publications by Year in descending order

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43  
papers

2,418  
citations

257450

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265206

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docs citations

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times ranked

1873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz topological photonics for on-chip communication. <i>Nature Photonics</i> , 2020, 14, 446-451.	31.4	449
2	Full- $\epsilon$ -Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. <i>Advanced Materials</i> , 2016, 28, 6866-6871.	21.0	259
3	Origami-Based Reconfigurable Metamaterials for Tunable Chirality. <i>Advanced Materials</i> , 2017, 29, 1700412.	21.0	193
4	Acoustic non-Hermitian skin effect from twisted winding topology. <i>Nature Communications</i> , 2021, 12, 6297.	12.8	125
5	Hyperbolic spoof plasmonic metasurfaces. <i>NPG Asia Materials</i> , 2017, 9, e428-e428.	7.9	97
6	Gradient Chiral Metamirrors for Spin-Selective Anomalous Reflection. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700115.	8.7	89
7	Topological triply degenerate point with double Fermi arcs. <i>Nature Physics</i> , 2019, 15, 645-649.	16.7	89
8	Chiral metamirrors for broadband spin-selective absorption. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	77
9	Topological Anderson Insulator in Disordered Photonic Crystals. <i>Physical Review Letters</i> , 2020, 125, 133603.	7.8	66
10	Topological Valley Photonics: Physics and Device Applications. <i>Advanced Photonics Research</i> , 2021, 2, 2100013.	3.6	63
11	Valley-Hall Photonic Topological Insulators with Dual-Band Kink States. <i>Advanced Optical Materials</i> , 2019, 7, 1900036.	7.3	61
12	Observation of a topological nodal surface and its surface-state arcs in an artificial acoustic crystal. <i>Nature Communications</i> , 2019, 10, 5185.	12.8	59
13	Photonic amorphous topological insulator. <i>Light: Science and Applications</i> , 2020, 9, 133.	16.6	58
14	Valley Kink States and Topological Channel Intersections in Substrate-Integrated Photonic Circuitry. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900159.	8.7	57
15	Roadmap on topological photonics. <i>JPhys Photonics</i> , 2022, 4, 032501.	4.6	56
16	Photonic Topological Valley-Locked Waveguides. <i>ACS Photonics</i> , 2021, 8, 1400-1406.	6.6	52
17	Ideal Unconventional Weyl Point in a Chiral Photonic Metamaterial. <i>Physical Review Letters</i> , 2020, 125, 143001.	7.8	51
18	Observation of an unpaired photonic Dirac point. <i>Nature Communications</i> , 2020, 11, 1873.	12.8	51

#	ARTICLE	IF	CITATIONS
19	Observation of Photonic Antichiral Edge States. <i>Physical Review Letters</i> , 2020, 125, 263603.	7.8	47
20	Origami Metawall: Mechanically Controlled Absorption and Deflection of Light. <i>Advanced Science</i> , 2019, 6, 1901434.	11.2	42
21	Diffusive topological transport in spatiotemporal thermal lattices. <i>Nature Physics</i> , 2022, 18, 450-456.	16.7	39
22	Transverse photon spin of bulk electromagnetic waves in bianisotropic media. <i>Nature Photonics</i> , 2019, 13, 878-882.	31.4	37
23	Bifunctional acoustic metamaterial lens designed with coordinate transformation. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	30
24	Toroidal Localized Spoof Plasmons on Compact Metadisks. <i>Advanced Science</i> , 2018, 5, 1700487.	11.2	27
25	Type-I hyperbolic metasurfaces for highly-squeezed designer polaritons with negative group velocity. <i>Nature Communications</i> , 2019, 10, 2002.	12.8	24
26	Diodelike Spin-Orbit Interactions of Light in Chiral Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 7148-7155.	5.1	23
27	Topological refraction in dual-band valley sonic crystals. <i>Physical Review B</i> , 2021, 103, .	3.2	23
28	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019, 2019, 3806132.	5.7	22
29	Direct current remote cloak for arbitrary objects. <i>Light: Science and Applications</i> , 2019, 8, 30.	16.6	19
30	Robust waveguiding in substrate-integrated topological photonic crystals. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	18
31	Aperiodic Metagratings for High-Performance Multifunctional Acoustic Lenses. <i>Advanced Materials Technologies</i> , 2020, 5, 2000542.	5.8	16
32	Experimental Realization of an Extreme-Parameter Omnidirectional Cloak. <i>Research</i> , 2019, 2019, 8282641.	5.7	16
33	Angle-Insensitive Toroidal Metasurface for High-Efficiency Sensing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 1511-1517.	4.6	13
34	Demonstration of negative refraction induced by synthetic gauge fields. <i>Science Advances</i> , 2021, 7, eabj2062.	10.3	13
35	Non-contact radio frequency shielding and wave guiding by multi-folded transformation optics method. <i>Scientific Reports</i> , 2016, 6, 36846.	3.3	10
36	Unconventional Weyl exceptional contours in non-Hermitian photonic continua. <i>Photonics Research</i> , 2021, 9, 2435.	7.0	10

#	ARTICLE	IF	CITATIONS
37	Three-dimensional photonic topological insulator without spin-orbit coupling. Nature Communications, 2022, 13, .	12.8	9
38	A Full-Parameter, Broadband, Homogeneous, and Compact Waveguide Coupler Designed With Transformation Optics. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 634-637.	4.0	8
39	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 50-56.	4.6	7
40	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. Research, 2019, 2019, 1-8.	5.7	7
41	Negative refraction of ultra-squeezed in-plane hyperbolic designer polaritons. Photonics Research, 2021, 9, 1540.	7.0	5
42	A Unidirectional TM-Wave Cloak With Full Parameters. IEEE Access, 2020, 8, 7609-7614.	4.2	1
43	Robustness Analysis of the Dual-band Kink States in Valley-Hall Photonic Topological Insulators. , 2020, , .		0