Hong-Chao Liu

List of Publications by Year
in descending order

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67 papers	2,380 citations	279778 23 h-index	214788 47 g-index
67 all docs	67 docs citations	67 times ranked	2964 citing authors

#	Article	IF	Citations
1	Negative magnetoresistance in Dirac semimetal Cd3As2. Nature Communications, 2016, 7, 10301.	12.8	376
2	Ideal Weyl points and helicoid surface states in artificial photonic crystal structures. Science, 2018, 359, 1013-1016.	12.6	250
3	Metasurface-based key for computational imaging encryption. Science Advances, 2021, 7, .	10.3	153
4	Two-dimensional superconductivity at the interface of a Bi2Te3/FeTe heterostructure. Nature Communications, 2014, 5, 4247.	12.8	114
5	Single-pixel computational ghost imaging with helicity-dependent metasurface hologram. Science Advances, 2017, 3, e1701477.	10.3	112
6	Direct observation of topological surface-state arcs in photonic metamaterials. Nature Communications, 2017, 8, 97.	12.8	110
7	High-field linear magneto-resistance in topological insulator Bi2Se3 thin films. Applied Physics Letters, 2012, 100, .	3.3	104
8	Experimental observation of photonic nodal line degeneracies in metacrystals. Nature Communications, 2018, 9, 950.	12.8	80
9	Three Dimensional Photonic Dirac Points in Metamaterials. Physical Review Letters, 2017, 119, 213901.	7.8	76
10	Controlling the plasmonic orbital angular momentum by combining the geometric and dynamic phases. Nanoscale, 2017, 9, 4944-4949.	5.6	62
11	Observation of Three-Dimensional Photonic Dirac Points and Spin-Polarized Surface Arcs. Physical Review Letters, 2019, 122, 203903.	7.8	51
12	Single domain Bi2Se3 films grown on InP(111)A by molecular-beam epitaxy. Applied Physics Letters, 2013, 102, .	3.3	45
13	Disorder-induced linear magnetoresistance in (221) topological insulator Bi2Se3 films. Applied Physics Letters, 2013, 103, 031606.	3.3	45
14	Anisotropic Topological Surface States on Highâ€Index Bi₂Se₃ Films. Advanced Materials, 2013, 25, 1557-1562.	21.0	44
15	A study of lateral Schottky contacts in WSe₂ and MoS₂ field effect transistors using scanning photocurrent microscopy. Nanoscale, 2015, 7, 15711-15718.	5.6	40
16	Commercializationâ€Driven Electrodes Design for Lithium Batteries: Basic Guidance, Opportunities, and Perspectives. Small, 2021, 17, e2102233.	10.0	38
17	A New Interconnecting Layer of Metal Oxide/Dipole Layer/Metal Oxide for Efficient Tandem Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1500631.	19.5	37
18	Dual-Functional Terahertz Waveplate Based on All-Dielectric Metamaterial. Physical Review Applied, 2020, 13, .	3.8	37

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19	Interfacial reinforcement structure design towards ultrastable lithium storage in MoS2-based composited electrode. Chemical Engineering Journal, 2021, 416, 129094.	12.7	36
20	Manipulation of vector beam polarization with geometric metasurfaces. Optics Express, 2017, 25, 14300.	3.4	34
21	Compressive Imaging Encryption with Secret Sharing Metasurfaces. Advanced Optical Materials, 2022, 10, .	7.3	29
22	Tunable Interaction-Induced Localization of Surface Electrons in Antidot Nanostructured Bi₂Te₃ Thin Films. ACS Nano, 2014, 8, 9616-9621.	14.6	27
23	Computational ghost imaging of hot objects in long-wave infrared range. Applied Physics Letters, 2017, 111, .	3.3	25
24	Ghost Difference Imaging Using One Single-Pixel Detector. Physical Review Applied, 2021, 15, .	3.8	23
25	The impact of light polarization on imaging visibility of Nth-order intensity correlation with thermal light. Optics Communications, 2010, 283, 405-408.	2.1	22
26	Positive and Negative Ghost Imaging. Physical Review Applied, 2019, 12, .	3.8	19
27	Inverse computational ghost imaging for image encryption. Optics Express, 2021, 29, 21290.	3.4	19
28	Curved terahertz surface plasmonic waveguide devices. Optics Express, 2020, 28, 1987.	3.4	19
29	Current-induced depairing in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mm mathvariant="normal">FeTe</mml:mi></mml:mrow></mml:math>interfacial superconductor. Physical Review B, 2015, 92, .	3.2	18
30	Optical ghost cryptography and steganography. Optics and Lasers in Engineering, 2020, 130, 106094.	3.8	18
31	Stretchable Photonic â€˜Fermi Arcsâ€™ in Twisted Magnetized Plasma. Laser and Photonics Reviews, 2018, 12, 1700226.	8.7	18
32	Properties of high-order ghost imaging with natural light. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 956.	1.5	17
33	Origin of bias-independent conductance plateaus and zero-bias conductance peaks in Bi2Se3/NbSe2 hybrid structures. Physical Review B, 2017, 96, .	3.2	17
34	Computational ghost imaging with spatiotemporal encoding pseudo-random binary patterns. Optics Express, 2020, 28, 31163.	3.4	16
35	Shubnikovâ€“de Haas oscillations in n and p type Bi ₂ Se ₃ flakes. 2D Materials, 2015, 2, 045002.	4.4	15
36	Computational ghost imaging encryption with a pattern compression from 3D to 0D. Optics Express, 2022, 30, 21866.	3.4	15

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37	Robust two-dimensional superconductivity and vortex system in Bi2Te3/FeTe heterostructures. Scientific Reports, 2016, 6, 26168.	3.3	13
38	Circular-Polarization-Selective Transmission Induced by Spin-Orbit Coupling in a Helical Tape Waveguide. Physical Review Applied, 2018, 9, .	3.8	13
39	Full-color photon-counting single-pixel imaging. Optics Letters, 2021, 46, 4900.	3.3	13
40	Multi-focus optical fiber lens based on all-dielectric metasurface. Chinese Optics Letters, 2021, 19, 050601.	2.9	12
41	Complex-amplitude single-pixel imaging using coherent structured illumination. Optics Express, 2021, 29, 41827.	3.4	12
42	In situ growth of ZnO/Ag2O heterostructures on PVDF nanofibers as efficient visible-light-driven photocatalysts. Ceramics International, 2022, 48, 27379-27387.	4.8	12
43	Pseudogap and proximity effect in the Bi2Te3/Fe1+yTe interfacial superconductor. Scientific Reports, 2016, 6, 32508.	3.3	11
44	Pseudospinâ€Mediated Optical Spinâ€“Spin Interaction in Nonlinear Photonic Graphene. Laser and Photonics Reviews, 2019, 13, 1800242.	8.7	11
45	Leaky-Wave Antenna With Switchable Omnidirectional Conical Radiation via Polarization Handedness. IEEE Transactions on Antennas and Propagation, 2020, 68, 1282-1288.	5.1	10
46	High-order correlation of chaotic bosons and fermions. Physical Review A, 2016, 94, .	2.5	9
47	Thickness dependent magneto transport properties of WTe 2 thin films. Solid State Communications, 2017, 260, 45-49.	1.9	9
48	Anti-loss-compression image encryption based on computational ghost imaging using discrete cosine transform and orthogonal patterns. Optics Express, 2022, 30, 14073.	3.4	9
49	Interface effect in Nb-Bi2Te3 hybrid structure. Applied Physics Letters, 2013, 103, .	3.3	7
50	Anisotropic magnetic responses of a 2D-superconducting Bi₂Te₃/FeTe heterostructure. Journal of Physics Condensed Matter, 2015, 27, 345701.	1.8	7
51	Wave dynamics on toroidal surface. Optics Express, 2018, 26, 17820.	3.4	7
52	Simultaneous TE and TM designer surface plasmon supported by bianisotropic metamaterials with positive permittivity and permeability. Nanophotonics, 2019, 8, 1357-1362.	6.0	7
53	Imaging reconstruction comparison of different ghost imaging algorithms. Scientific Reports, 2020, 10, 14626.	3.3	7
54	Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	7

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55	Formation Mechanism of Superconducting Fe1+xTe/Bi2Te3 Bilayer Synthesized via Interfacial Chemical Reactions. Crystal Growth and Design, 2014, 14, 3370-3374.	3.0	5
56	Spontaneous vortex dynamics in superconducting FeTe thin films. Solid State Communications, 2014, 195, 35-38.	1.9	5
57	Integrated dual-channel sensing utilizing polarized dissimilation based on photonic spin-orbit interaction. Optics Letters, 2019, 44, 3757.	3.3	5
58	The role of the degree of polarization inNth-order thermal ghost imaging. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 145503.	1.5	4
59	Current driven vortex-antivortex pair breaking and vortex explosion in the Bi2Te3/FeTe interfacial superconductor. Physica C: Superconductivity and Its Applications, 2016, 527, 46-49.	1.2	4
60	Optical manipulation of Rayleigh particles by metalensesâ€"a numerical study. Applied Optics, 2019, 58, 5794.	1.8	4
61	M₄B₆X₆ as a New Family of Highâ€Efficient Electrocatalysts: The Role of Surface Reconstruction in Water Oxidization. ChemSusChem, 2022, 15, .	6.8	4
62	Organic Solar Cells: A New Interconnecting Layer of Metal Oxide/Dipole Layer/Metal Oxide for Efficient Tandem Organic Solar Cells (Adv. Energy Mater. 17/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	19.5	3
63	Pressure-induced reinforcement of interfacial superconductivity in a Bi2Te3/Fe1+yTe heterostructure. Physica C: Superconductivity and Its Applications, 2017, 543, 18-21.	1.2	3
64	Robust reflective ghost imaging against different partially polarized thermal light. Optics Communications, 2018, 410, 867-870.	2.1	3
65	Superconductivity and oscillatory magnetoresistance at a topological-insulator/chalcogenide interface. AIP Conference Proceedings, 2017, , .	0.4	1
66	Commercializationâ€Driven Electrodes Design for Lithium Batteries: Basic Guidance, Opportunities, and Perspectives (Small 43/2021). Small, 2021, 17, 2170227.	10.0	1
67	Dual-channel sensing by combining geometric and dynamic phases with an ultrathin metasurface. Optics Express, 2020, 28, 28612.	3.4	1