

Guangwei Hu

List of Publications by Year in descending order

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65
papers

4,394
citations

101543

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docs citations

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times ranked

2846
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological polaritons and photonic magic angles in twisted $\text{I}\pm\text{-MoO}_3$ bilayers. <i>Nature</i> , 2020, 582, 209-213.	27.8	413
2	Coherent steering of nonlinear chiral valley photons with a synthetic Au $\text{â€}^{\text{â€}}\text{WS}_2$ metasurface. <i>Nature Photonics</i> , 2019, 13, 467-472.	31.4	236
3	Directional Janus Metasurface. <i>Advanced Materials</i> , 2020, 32, e1906352.	21.0	193
4	Hyperbolic metamaterials: fusing artificial structures to natural 2D materials. <i>ELight</i> , 2022, 2, .	23.9	190
5	Chirality $\text{â€}^{\text{â€}}$ Assisted High $\text{â€}^{\text{â€}}$ Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. <i>Advanced Optical Materials</i> , 2019, 7, 1801479.	7.3	181
6	Moir $\text{â€}^{\text{â€}}$ Hyperbolic Metasurfaces. <i>Nano Letters</i> , 2020, 20, 3217-3224.	9.1	167
7	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. <i>Light: Science and Applications</i> , 2019, 8, 3.	16.6	153
8	Interface nano-optics with van der Waals polaritons. <i>Nature</i> , 2021, 597, 187-195.	27.8	143
9	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. <i>ELight</i> , 2021, 1, .	23.9	132
10	Planar chiral metasurfaces with maximal and tunable chiroptical response driven by bound states in the continuum. <i>Nature Communications</i> , 2022, 13, .	12.8	131
11	Quo Vadis, Metasurfaces?. <i>Nano Letters</i> , 2021, 21, 5461-5474.	9.1	129
12	Metasurface holographic image projection based on mathematical properties of Fourier transform. <i>Photonix</i> , 2020, 1, .	13.5	127
13	Full-space Cloud of Random Points with a Scrambling Metasurface. <i>Light: Science and Applications</i> , 2018, 7, 63.	16.6	112
14	Polarization-insensitive 3D conformal-skin metasurface cloak. <i>Light: Science and Applications</i> , 2021, 10, 75.	16.6	111
15	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021, 596, 362-366.	27.8	102
16	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1901393.	7.3	87
17	Wavevector and Frequency Multiplexing Performed by a Spin $\text{â€}^{\text{â€}}$ Decoupled Multichannel Metasurface. <i>Advanced Materials Technologies</i> , 2020, 5, 1900710.	5.8	87
18	Broadband Photonic Spin Hall Meta-Lens. <i>ACS Nano</i> , 2018, 12, 82-88.	14.6	79

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19	Hybridized Hyperbolic Surface Phonon Polaritons at \pm -MoO ₃ and Polar Dielectric Interfaces. Nano Letters, 2021, 21, 3112-3119.	9.1	79
20	Artificial Metaphotonics Born Naturally in Two Dimensions. Chemical Reviews, 2020, 120, 6197-6246.	47.7	78
21	Hyperbolic shear polaritons in low-symmetry crystals. Nature, 2022, 602, 595-600.	27.8	78
22	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. Advanced Optical Materials, 2021, 9, 2100190.	7.3	73
23	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. Nature Communications, 2020, 11, 3663.	12.8	70
24	Tailoring Light with Layered and Moiré Metasurfaces. Trends in Chemistry, 2021, 3, 342-358.	8.5	69
25	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	12.8	67
26	Hyperbolic Phonon Polaritons in Suspended Hexagonal Boron Nitride. Nano Letters, 2019, 19, 1009-1014.	9.1	64
27	Giant Helical Dichroism of Single Chiral Nanostructures with Photonic Orbital Angular Momentum. ACS Nano, 2021, 15, 2893-2900.	14.6	63
28	Tunable Metasurfaces: Kerker-Conditioned Dynamic Cryptographic Nanoprints (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.3	58
29	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. Nature Communications, 2021, 12, 6425.	12.8	58
30	Single-layer spatial analog meta-processor for imaging processing. Nature Communications, 2022, 13, 2188.	12.8	58
31	Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496.	26.0	52
32	Kerker-Conditioned Dynamic Cryptographic Nanoprints. Advanced Optical Materials, 2019, 7, 1801070.	7.3	50
33	Dynamics of Topological Polarization Singularity in Momentum Space. Physical Review Letters, 2021, 127, 176101.	7.8	50
34	Spin-orbit-locked hyperbolic polariton vortices carrying reconfigurable topological charges. ELight, 2022, 2, .	23.9	49
35	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. Nano Letters, 2021, 21, 973-979.	9.1	42
36	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. Research, 2020, 2020, 9085782.	5.7	40

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37	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals. <i>Nano Letters</i> , 2022, 22, 4260-4268.	9.1	40
38	Loss-Assisted Metasurface at an Exceptional Point. <i>ACS Photonics</i> , 2020, 7, 3321-3327.	6.6	39
39	Deuterogenic Plasmonic Vortices. <i>Nano Letters</i> , 2020, 20, 6774-6779.	9.1	38
40	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI ₃ . <i>Science Advances</i> , 2020, 6, .	10.3	37
41	Twisted Surface Plasmons with Spin-Controlled Gold Surfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801060.	7.3	36
42	Enhanced light-matter interactions at photonic magic-angle topological transitions. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	36
43	Fast encirclement of an exceptional point for highly efficient and compact chiral mode converters. <i>Nature Communications</i> , 2022, 13, 2123.	12.8	33
44	Graphene Based Surface Plasmon Polariton Modulator Controlled by Ferroelectric Domains in Lithium Niobate. <i>Scientific Reports</i> , 2016, 5, 18258.	3.3	30
45	Twistronics for photons: opinion. <i>Optical Materials Express</i> , 2021, 11, 1377.	3.0	30
46	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. <i>Nature Communications</i> , 2020, 11, 5055.	12.8	29
47	Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shifter. <i>Photonics Research</i> , 2021, 9, 1048.	7.0	24
48	Adaptable Invisibility Management Using Kirigami-Inspired Transformable Metamaterials. <i>Research</i> , 2021, 2021, 9806789.	5.7	21
49	3D-Printed Curved Metasurface with Multifunctional Wavefronts. <i>Advanced Optical Materials</i> , 2020, 8, 2000129.	7.3	20
50	Efficient and Tunable Reflection of Phonon Polaritons at Built-In Intercalation Interfaces. <i>Advanced Materials</i> , 2021, 33, e2008070.	21.0	16
51	Equivalent-circuit-intervened deep learning metasurface. <i>Materials and Design</i> , 2022, 218, 110725.	7.0	15
52	On-chip trans-dimensional plasmonic router. <i>Nanophotonics</i> , 2020, 9, 3357-3365.	6.0	14
53	Coupling mediated by photorefractive phase grating between visible radiation and surface plasmon polaritons in iron-doped LiNbO ₃ crystal slabs coated with indium-tin oxide. <i>Applied Physics Express</i> , 2014, 7, 102001.	2.4	10
54	Active tuning of epsilon-near-zero point of hyperbolic metamaterial at visible and near-infrared regimes. <i>Applied Physics Express</i> , 2016, 9, 092201.	2.4	9

#	ARTICLE	IF	CITATIONS
55	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. Applied Physics Letters, 2022, 120, .	3.3	8
56	Multiplexed Metasurfaces: Wavevector and Frequency Multiplexing Performed by a Spin-Decoupled Multichannel Metasurface (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070005.	5.8	7
57	Unidirectional bound states in the continuum in Weyl semimetal nanostructures. Photonics Research, 2022, 10, 1828.	7.0	7
58	High-order diffraction and nanolayer electrostatic modification in Cu-doped (K _{0.5} Na _{0.5}) ₂ (Sr _{0.75} Ba _{0.25}) ₉ Nb ₂ O ₆ crystals. Optical Materials Express, 2016, 6, 509.	3.0	6
59	Manipulating mode degeneracy for tunable spectral characteristics in multi-microcavity photonic molecules. Optics Express, 2021, 29, 11181.	3.4	6
60	Exciton polaritons in mixed-dimensional transition metal dichalcogenides heterostructures. Optics Letters, 2020, 45, 4140.	3.3	4
61	Surface Plasmon Polaritons and Visible Light Coupling via Photorefractive Phase Gratings in Indium Tin Oxide Coated Iron-doped LiNbO ₃ Crystal Slabs. , 2014, , .		1
62	Bound states in the continuum on flatbands of symmetry-broken photonic crystal slabs. Journal of Optics (United Kingdom), 0, , .	2.2	1
63	Magnetic Modulation of Topological Polarization Singularities in Momentum Space. Optics Letters, 0, , .	3.3	1
64	Dual-Focal Metalenses Based on Complete Decoupling of Amplitude, Phase and Polarization. , 2019, , .		0
65	Dual-focal metalenses based on complete decoupling of amplitude, phase, and polarization. URSI Radio Science Bulletin, 2020, 2020, 54-62.	0.1	0