

# Guangwei Hu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3843655/publications.pdf>

Version: 2024-02-01

65  
papers

4,394  
citations

101543

36  
h-index

128289

60  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperbolic metamaterials: fusing artificial structures to natural 2D materials. <i>ELight</i> , 2022, 2, .	23.9	190
2	Hyperbolic shear polaritons in low-symmetry crystals. <i>Nature</i> , 2022, 602, 595-600.	27.8	78
3	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals. <i>Nano Letters</i> , 2022, 22, 4260-4268.	9.1	40
4	Fast encirclement of an exceptional point for highly efficient and compact chiral mode converters. <i>Nature Communications</i> , 2022, 13, 2123.	12.8	33
5	Single-layer spatial analog meta-processor for imaging processing. <i>Nature Communications</i> , 2022, 13, 2188.	12.8	58
6	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
7	Equivalent-circuit-intervened deep learning metasurface. <i>Materials and Design</i> , 2022, 218, 110725.	7.0	15
8	Unidirectional bound states in the continuum in Weyl semimetal nanostructures. <i>Photonics Research</i> , 2022, 10, 1828.	7.0	7
9	Improving carrier mobility in two-dimensional semiconductors with rippled materials. <i>Nature Electronics</i> , 2022, 5, 489-496.	26.0	52
10	Spin-orbit-locked hyperbolic polariton vortices carrying reconfigurable topological charges. <i>ELight</i> , 2022, 2, .	23.9	49
11	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
12	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2100190.	7.3	73
13	Manipulating mode degeneracy for tunable spectral characteristics in multi-microcavity photonic molecules. <i>Optics Express</i> , 2021, 29, 11181.	3.4	6
14	Hybridized Hyperbolic Surface Phonon Polaritons at $\pm$ -MoO <sub>3</sub> and Polar Dielectric Interfaces. <i>Nano Letters</i> , 2021, 21, 3112-3119.	9.1	79
15	Polarization-insensitive 3D conformal-skin metasurface cloak. <i>Light: Science and Applications</i> , 2021, 10, 75.	16.6	111
16	Twistronics for photons: opinion. <i>Optical Materials Express</i> , 2021, 11, 1377.	3.0	30
17	Efficient and Tunable Reflection of Phonon Polaritons at Built-In Intercalation Interfaces. <i>Advanced Materials</i> , 2021, 33, e2008070.	21.0	16
18	Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shifter. <i>Photonics Research</i> , 2021, 9, 1048.	7.0	24

#	ARTICLE	IF	CITATIONS
19	Enhanced light-matter interactions at photonic magic-angle topological transitions. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	36
20	Tailoring Light with Layered and Moiré Metasurfaces. <i>Trends in Chemistry</i> , 2021, 3, 342-358.	8.5	69
21	Quo Vadis, Metasurfaces?. <i>Nano Letters</i> , 2021, 21, 5461-5474.	9.1	129
22	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021, 596, 362-366.	27.8	102
23	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. <i>ELight</i> , 2021, 1, .	23.9	132
24	Adaptable Invisibility Management Using Kirigami-Inspired Transformable Metamaterials. <i>Research</i> , 2021, 2021, 9806789.	5.7	21
25	Interface nano-optics with van der Waals polaritons. <i>Nature</i> , 2021, 597, 187-195.	27.8	143
26	Giant Helical Dichroism of Single Chiral Nanostructures with Photonic Orbital Angular Momentum. <i>ACS Nano</i> , 2021, 15, 2893-2900.	14.6	63
27	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. <i>Nano Letters</i> , 2021, 21, 973-979.	9.1	42
28	Dynamics of Topological Polarization Singularity in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 176101.	7.8	50
29	Full-color enhanced second harmonic generation using rainbow trapping in ultrathin hyperbolic metamaterials. <i>Nature Communications</i> , 2021, 12, 6425.	12.8	58
30	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1901393.	7.3	87
31	Directional Janus Metasurface. <i>Advanced Materials</i> , 2020, 32, e1906352.	21.0	193
32	Wavevector and Frequency Multiplexing Performed by a Spin-Decoupled Multichannel Metasurface. <i>Advanced Materials Technologies</i> , 2020, 5, 1900710.	5.8	87
33	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
34	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. <i>Nature Communications</i> , 2020, 11, 3663.	12.8	70
35	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI <sub>3</sub> . <i>Science Advances</i> , 2020, 6, .	10.3	37
36	Deuterogenic Plasmonic Vortices. <i>Nano Letters</i> , 2020, 20, 6774-6779.	9.1	38

#	ARTICLE	IF	CITATIONS
37	Loss-Assisted Metasurface at an Exceptional Point. ACS Photonics, 2020, 7, 3321-3327.	6.6	39
38	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	12.8	67
39	3D-Printed Curved Metasurface with Multifunctional Wavefronts. Advanced Optical Materials, 2020, 8, 2000129.	7.3	20
40	Topological polaritons and photonic magic angles in twisted $\pm$ -MoO <sub>3</sub> bilayers. Nature, 2020, 582, 209-213.	27.8	413
41	Artificial Metaphotonics Born Naturally in Two Dimensions. Chemical Reviews, 2020, 120, 6197-6246.	47.7	78
42	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
43	Moiré Hyperbolic Metasurfaces. Nano Letters, 2020, 20, 3217-3224.	9.1	167
44	Metasurface holographic image projection based on mathematical properties of Fourier transform. Photonix, 2020, 1, .	13.5	127
45	On-chip trans-dimensional plasmonic router. Nanophotonics, 2020, 9, 3357-3365.	6.0	14
46	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. Research, 2020, 2020, 9085782.	5.7	40
47	Exciton polaritons in mixed-dimensional transition metal dichalcogenides heterostructures. Optics Letters, 2020, 45, 4140.	3.3	4
48	Dual-focal metalenses based on complete decoupling of amplitude, phase, and polarization. URSI Radio Science Bulletin, 2020, 2020, 54-62.	0.1	0
49	Kerker-Conditioned Dynamic Cryptographic Nanoprints. Advanced Optical Materials, 2019, 7, 1801070.	7.3	50
50	Chirality-Assisted High-Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. Advanced Optical Materials, 2019, 7, 1801479.	7.3	181
51	Coherent steering of nonlinear chiral valley photons with a synthetic Au-WS <sub>2</sub> metasurface. Nature Photonics, 2019, 13, 467-472.	31.4	236
52	Tunable Metasurfaces: Kerker-Conditioned Dynamic Cryptographic Nanoprints (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.3	58
53	Twisted Surface Plasmons with Spin-Controlled Gold Surfaces. Advanced Optical Materials, 2019, 7, 1801060.	7.3	36
54	Dual-Focal Metalenses Based on Complete Decoupling of Amplitude, Phase and Polarization. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Hyperbolic Phonon Polaritons in Suspended Hexagonal Boron Nitride. Nano Letters, 2019, 19, 1009-1014.	9.1	64
56	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. Light: Science and Applications, 2019, 8, 3.	16.6	153
57	Broadband Photonic Spin Hall Meta-Lens. ACS Nano, 2018, 12, 82-88.	14.6	79
58	Full-space Cloud of Random Points with a Scrambling Metasurface. Light: Science and Applications, 2018, 7, 63.	16.6	112
59	Active tuning of epsilon-near-zero point of hyperbolic metamaterial at visible and near-infrared regimes. Applied Physics Express, 2016, 9, 092201.	2.4	9
60	Graphene Based Surface Plasmon Polariton Modulator Controlled by Ferroelectric Domains in Lithium Niobate. Scientific Reports, 2016, 5, 18258.	3.3	30
61	High-order diffraction and nanolayer electrostatic modification in Cu-doped (K <sub>0.05</sub> Na <sub>0.05</sub> ) <sub>2</sub> (Sr <sub>0.75</sub> Ba <sub>0.25</sub> ) <sub>9</sub> Nb <sub>20</sub> O <sub>6</sub> crystals. Optical Materials Express, 2016, 6, 509.	3.0	6
62	Coupling mediated by photorefractive phase grating between visible radiation and surface plasmon polaritons in iron-doped LiNbO <sub>3</sub> crystal slabs coated with indium-tin oxide. Applied Physics Express, 2014, 7, 102001.	2.4	10
63	Surface Plasmon Polaritons and Visible Light Coupling via Photorefractive Phase Gratings in Indium Tin Oxide Coated Iron-doped LiNbO <sub>3</sub> Crystal Slabs. , 2014, , .		1
64	Bound states in the continuum on flatbands of symmetry-broken photonic crystal slabs. Journal of Optics (United Kingdom), 0, , .	2.2	1
65	Magnetic Modulation of Topological Polarization Singularities in Momentum Space. Optics Letters, 0, , .	3.3	1