Yumin Liu

List of Publications by Year
in descending order

76	2,262	304602	223716
papers	citations	22 h-index	46 g-index

78	78	78	2681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Switchable bifunctional metasurface based on VO2 for ultra-broadband polarization conversion and perfect absorption in same infrared waveband. Optics Communications, 2022, 503, 127442.	1.0	12
2	Improved bidirectional networks for nanostructure color design. Optics Communications, 2022, 520, 128419.	1.0	3
3	Design of Multifunctional Tunable Metasurface Assisted by Elastic Substrate. Nanomaterials, 2022, 12, 2387.	1.9	7
4	Ultra-broadband polarization metasurface-based splitter with tunable beam splitting ratio. Optics Communications, 2022, 523, 128719.	1.0	1
5	Catalytic activity for hydrogen evolution reaction in square phase Janus MoSSe monolayer: A first-principles study. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114485.	1.3	4
6	Lattice-distorted lithiation behavior of a square phase Janus MoSSe monolayer for electrode applications. Nanoscale Advances, 2021, 3, 2902-2910.	2.2	9
7	Topology design of digital metamaterials for ultra-compact integrated photonic devices based on mode manipulation. Nanoscale Advances, 2021, 3, 4579-4588.	2.2	6
8	High-Contrast and Compact Integrated Wavelength Diplexer Based on Subwavelength Grating Anisotropic Metamaterial for 1550/2000Ânm. IEEE Photonics Journal, 2021, 13, 1-10.	1.0	1
9	High-Efficiency, Dual-Band Beam Splitter Based on an All-Dielectric Quasi-Continuous Metasurface. Materials, 2021, 14, 3184.	1.3	10
10	Plexcitonic Optical Chirality: Strong Excitonâ€“Plasmon Coupling in Chiral J-Aggregate-Metal Nanoparticle Complexes. ACS Nano, 2021, 15, 2292-2300.	7.3	38
11	Broadband anomalous reflective metasurface for complementary conversion of arbitrary incident polarization angles. Optics Express, 2021, 29, 38404.	1.7	8
12	Waveguide-integrated digital metamaterials for wavelength, mode and polarization demultiplexing. Optical Materials, 2021, 122, 111770.	1.7	8
13	Universal design rules for 2Ï€ phase trapezoidal metasurface based on Fabryâ€“Perot resonance in visible and near-infrared. Optical Engineering, 2021, 60, .	0.5	1
14	Armchair Janus MoSSe Nanoribbon with Spontaneous Curling: A First-Principles Study. Nanomaterials, 2021, 11, 3442.	1.9	3
15	Copper plasmonic metamaterial glazing for directional thermal energy management. Materials and Design, 2020, 188, 108407.	3.3	17
16	Three-Dimensional Simulation of Particle-Induced Mode Splitting in Large Toroidal Microresonators. Sensors, 2020, 20, 5420.	2.1	6
17	Direct Integration of Fewâ€Layer MoS 2 at Plasmonic Au Nanostructure by Substrateâ€Diffusion Delivered Mo. Advanced Materials Interfaces, 2020, 7, 1902093.	1.9	4
18	Ultra-broadband large-angle beam splitter based on a homogeneous metasurface at visible wavelengths. Optics Express, 2020, 28, 32226.	1.7	17

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19	Beyond dipole excitation: the performance of quadrupole-based Huygensâ€™ metasurface. Optics Letters, 2020, 45, 4847.	1.7	10
20	Free space continuous-variable quantum key distribution with practical links. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3690.	0.9	2
21	Sub-Poissonian photon statistics in quantum dot-metal nanoparticles hybrid system with gain media. Scientific Reports, 2019, 9, 10088.	1.6	3
22	Ultra-Compact Waveguide-Integrated TE-Mode Converters With High Mode Purity by Designing Ge/Si Patterns. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	4
23	Efficient Polarization Beam Splitter Based on All-Dielectric Metasurface in Visible Region. Nanoscale Research Letters, 2019, 14, 34.	3.1	38
24	Underdetermined DOA estimation using coprime array via multiple measurement sparse Bayesian learning. Signal, Image and Video Processing, 2019, 13, 1311-1318.	1.7	4
25	First-principles study of square phase MX2 and Janus MXY (M=Mo, W; X, Y=S, Se, Te) transition metal dichalcogenide monolayers under biaxial strain. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 134-139.	1.3	50
26	Broadband Ultrathin Transmission Quarter Waveplate with Rectangular Hole Array Based on Plasmonic Resonances. Nanoscale Research Letters, 2019, 14, 384.	3.1	9
27	Realization of perfect selective absorber based on multipole modes in all-dielectric moth-eye structure. Optics Express, 2019, 27, 5703.	1.7	9
28	Mechanisms of 2Ï€ phase control in dielectric metasurface and transmission enhancement effect. Optics Express, 2019, 27, 23186.	1.7	27
29	All-dielectric three-element transmissive Huygensâ€™ metasurface performing anomalous refraction. Photonics Research, 2019, 7, 1501.	3.4	24
30	All-dielectric colored truncated cone metasurfaces with silicon Mie magnetic resonators. Applied Optics, 2019, 58, 6742.	0.9	4
31	Structural and electronic properties of hydrogenated GaBi and InBi honeycomb monolayers with point defects. RSC Advances, 2018, 8, 7022-7028.	1.7	9
32	Design of a broadband reciprocal optical diode in multimode silicon waveguide by partial depth etching. Optics Communications, 2018, 418, 88-92.	1.0	7
33	Broadband Mid-infrared Dual-Band Double-Negative Metamaterial: Realized Using a Simple Geometry. Plasmonics, 2018, 13, 1287-1295.	1.8	8
34	The design of ultra-broadband selective near-perfect absorber based on photonic structures to achieve near-ideal daytime radiative cooling. Materials and Design, 2018, 139, 104-111.	3.3	163
35	Design of Compact TE-Polarized Mode-Order Converter in Silicon Waveguide With High Refractive Index Material. IEEE Photonics Journal, 2018, 10, 1-7.	1.0	12
36	High-efficiency all-dielectric transmission metasurface for linearly polarized light in the visible region. Photonics Research, 2018, 6, 517.	3.4	30

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37	Underdetermined Wideband DOA Estimation for Off-Grid Sources with Coprime Array Using Sparse Bayesian Learning. Sensors, 2018, 18, 253.	2.1	23
38	Design of a Tunable Ultra-Broadband Terahertz Absorber Based on Multiple Layers of Graphene Ribbons. Nanoscale Research Letters, 2018, 13, 143.	3.1	98
39	Optically Active Plasmonic Metasurfaces based on the Hybridization of In-Plane Coupling and Out-of-Plane Coupling. Nanoscale Research Letters, 2018, 13, 144.	3.1	2
40	Numerical study of a wide-angle polarization-independent ultra-broadband efficient selective metamaterial absorber for near-ideal solar thermal energy conversion. RSC Advances, 2018, 8, 21054-21064.	1.7	35
41	Infrared Plasmonic Refractive Index Sensor with Ultra-High Figure of Merit Based on the Optimized All-Metal Grating. Nanoscale Research Letters, 2017, 12, 1.	3.1	626
42	Asymmetric light transmission based on coupling between photonic crystal waveguides and L1/L3 cavity. Journal of Modern Optics, 2017, 64, 1626-1631.	0.6	1
43	Dual interface gratings design for absorption enhancement in thin crystalline silicon solar cells. Optics Communications, 2017, 399, 62-67.	1.0	5
44	Numerical Investigations of a Silicon Photonic TE-Pass Polarizer Consisting of Alternating Copper/Silicon Nitride Layers. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	1
45	Plasmonic metamaterial for electromagnetically induced transparency analogue and ultra-high figure of merit sensor. Scientific Reports, 2017, 7, 45210.	1.6	53
46	Polarization insensitive transmission enhanced by staggered metal disk array. Optical Materials, 2017, 73, 563-569.	1.7	0
47	Bi-Directional Faraday Rotation Selective Enhancement on Embedded Nano-Gratings. IEEE Photonics Technology Letters, 2017, 29, 1615-1618.	1.3	0
48	Toward a Mechanistic Understanding of Vertical Growth of van der Waals Stacked 2D Materials: A Multiscale Model and Experiments. ACS Nano, 2017, 11, 12780-12788.	7.3	89
49	Numerical Study of the Wideâ€angle Polarizationâ€Independent Ultraâ€Broadband Efficient Selective Solar Absorber in the Entire Solar Spectrum. Solar Rrl, 2017, 1, 1700049.	3.1	32
50	Ultra-narrow Band Perfect Absorber and Its Application as Plasmonic Sensor in the Visible Region. Nanoscale Research Letters, 2017, 12, 427.	3.1	84
51	Regulable photon bunching and anti-bunching in quantum dot-bimodal cavity coupling system. , 2017, , .		0
52	Numerical study of an ultra-broadband near-perfect solar absorber in the visible and near-infrared region. Optics Letters, 2017, 42, 450.	1.7	120
53	Design of a broadband reciprocal optical diode in a silicon waveguide assisted by silver surface plasmonic splitter. Optics Express, 2017, 25, 19129.	1.7	24
54	Numerical Study of an Efficient Solar Absorber Consisting of Metal Nanoparticles. Nanoscale Research Letters, 2017, 12, 601.	3.1	12

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55	Numerical investigations of a near-infrared plasmonic refractive index sensor with extremely high figure of merit and low loss based on the hybrid plasmonic waveguide-nanocavity system. Optics Express, 2016, 24, 23260.	1.7	12
56	Realization of compact broadband optical diode in linear air-hole photonic crystal waveguide. Optics Express, 2016, 24, 24592.	1.7	25
57	Focal Shift of Nano-Optical Lens Affected by Periodic Resonance With Substrate. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	2
58	The sensing characteristics of periodic staggered surface plasmon gratings. Optics Communications, 2016, 381, 391-395.	1.0	5
59	Infrared Perfect Ultra-narrow Band Absorber as Plasmonic Sensor. Nanoscale Research Letters, 2016, 11, 483.	3.1	61
60	Simultaneous All-Optical or and xor Logic Gates Based on the Bimodal Photonic Cavity Containing a Quantum Dot. IEEE Photonics Journal, 2016, 8, 1-10.	1.0	2
61	Tuning the Fano resonances in a single defect nanocavity coupled with a plasmonic waveguide for sensing applications. Modern Physics Letters B, 2015, 29, 1550218.	1.0	8
62	The calculation of InGaN quantum dot formation mechanism on GaN pyramid. Superlattices and Microstructures, 2015, 84, 72-79.	1.4	2
63	A nanometeric temperature sensor based on plasmonic waveguide with an ethanol-sealed rectangular cavity. Optics Communications, 2015, 339, 1-6.	1.0	69
64	Hydrothermal Synthesis and Mechanism of Unusual Zigzag Ag₂Te and Ag₂Te/C Core-Shell Nanostructures. Journal of Nanomaterials, 2014, 2014, 1-5.	1.5	0
65	The Formation Site of Noninterfacial Misfit Dislocations in InAs/GaAs Quantum Dots. Journal of Nanomaterials, 2014, 2014, 1-5.	1.5	1
66	The sensing characteristics of plasmonic waveguide with a ring resonator. Optics Express, 2014, 22, 7669.	1.7	178
67	The sensing characteristics of plasmonic waveguide with a single defect. Optics Communications, 2014, 323, 44-48.	1.0	53
68	Design of plasmonic solar cells combining dual interface nanostructure for broadband absorption enhancement. Optics Communications, 2014, 333, 213-218.	1.0	10
69	Near infrared nonlinearity in silver telluride-core/carbon-sheath and tellurium-core/carbon-sheath nanostructures synthesized by reduction carbonization approach. Journal of Materials Science, 2014, 49, 6892-6899.	1.7	4
70	Calculation of the bending area of threading dislocations of InGaAs quantum dots on a GaAs substrate. Superlattices and Microstructures, 2013, 63, 29-35.	1.4	3
71	Plastic relaxation and coherency limit in uncapped multi-faceted InAs/GaAs(001) nanoislands. Journal of Applied Physics, 2013, 114, 093504.	1.1	3
72	Calculation of critical size of coherent InAs quantum dot on GaAs substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 46, 52-56.	1.3	3

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73	A new recognition algorithm with high result reliability. , 2012, , .		1
74	The optimal structure of two dimensional photonic crystals with the large absolute band gap. Optics Express, 2011, 19, 19346.	1.7	16
75	Equilibrium critical size of coherent InSb/GaSb quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2402-2405.	1.3	10
76	THE STRAIN DISTRIBUTIONS AND CARRIER'S CONFINING POTENTIALS OF SELF-ORGANIZED InAs/GaAs QUANTUM DOT. International Journal of Modern Physics B, 2006, 20, 4899-4907.	1.0	17