

# Guiqiang Liu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

1,399  
citations

19  
h-index

35  
g-index

73  
ext. papers

1,759  
ext. citations

3.5  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
70	Automatically acquired broadband plasmonic-metamaterial black absorber during the metallic film-formation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4962-8	9.5	196
69	Ultra-broadband perfect solar absorber by an ultra-thin refractory titanium nitride meta-surface. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 179, 346-352	6.4	97
68	Near-unity, full-spectrum, nanoscale solar absorbers and near-perfect blackbody emitters. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 190, 20-29	6.4	83
67	Enhancing refractive index sensing capability with hybrid plasmonic-photonic absorbers. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4222-4226	7.1	75
66	Truncated titanium/semiconductor cones for wide-band solar absorbers. <i>Nanotechnology</i> , <b>2019</b> , 30, 305203	3.3	71
65	Multi-band light perfect absorption by a metal layer-coupled dielectric metamaterial. <i>Optics Express</i> , <b>2016</b> , 24, 5020-5025	3.3	70
64	Ultra-broadband perfect absorber utilizing refractory materials in metal-insulator composite multilayer stacks. <i>Optics Express</i> , <b>2019</b> , 27, 11809-11818	3.3	69
63	Quantitatively optical and electrical-adjusting high-performance switch by graphene plasmonic perfect absorbers. <i>Carbon</i> , <b>2018</b> , 140, 362-367	10.4	65
62	Multispectral spatial and frequency selective sensing with ultra-compact cross-shaped antenna plasmonic crystals. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 215, 480-488	8.5	56
61	Semiconductor-enhanced Raman scattering sensors via quasi-three-dimensional Au/Si/Au structures. <i>Nanophotonics</i> , <b>2019</b> , 8, 1095-1107	6.3	42
60	Titanium resonators based ultra-broadband perfect light absorber. <i>Optical Materials</i> , <b>2018</b> , 83, 118-123	3.3	37
59	Achieving an ultra-narrow multiband light absorption meta-surface via coupling with an optical cavity. <i>Nanotechnology</i> , <b>2015</b> , 26, 235702	3.4	33
58	Annealed gold nanoshells with highly-dense hotspots for large-area efficient Raman scattering substrates. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 845-851	8.5	28
57	Multi-functional polarization conversion manipulation via graphene-based metasurface reflectors. <i>Optics Express</i> , <b>2021</b> , 29, 70-81	3.3	28
56	Metamaterial and nanomaterial electromagnetic wave absorbers: structures, properties and applications. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12768-12794	7.1	25
55	Semiconductor meta-surface based perfect light absorber. <i>Nanotechnology</i> , <b>2017</b> , 28, 165202	3.4	22
54	High-Q plasmonic graphene absorbers for electrical switching and optical detection. <i>Carbon</i> , <b>2020</b> , 166, 256-264	10.4	22

53	Hybrid Metal-Semiconductor Meta-Surface Based Photo-Electronic Perfect Absorber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-7	3.8	20
52	Recent progresses on metamaterials for optical absorption and sensing: a review. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 113002	3	19
51	Ultra-narrow multi-band polarization-insensitive plasmonic perfect absorber for sensing. <i>Nanotechnology</i> , <b>2020</b> , 31, 465501	3.4	18
50	Colloid templated semiconductor meta-surface for ultra-broadband solar energy absorber. <i>Solar Energy</i> , <b>2020</b> , 198, 194-201	6.8	17
49	Multi-Band High Refractive Index Susceptibility of Plasmonic Structures with Network-Type Metasurface. <i>Plasmonics</i> , <b>2016</b> , 11, 677-682	2.4	16
48	Plasmonic sensors with an ultra-high figure of merit. <i>Nanotechnology</i> , <b>2020</b> , 31, 115208	3.4	16
47	High-quality photonic crystal heterostructures fabricated by a modified self-assembly method. <i>Applied Optics</i> , <b>2009</b> , 48, 2480-4	0.2	14
46	Polarization and angle insensitive ultra-broadband mid-infrared perfect absorber. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126288	2.3	13
45	Tunable Extraordinary Optical Transmission in a Metal Film Perforated with Two-Level Subwavelength Cylindrical Holes. <i>Plasmonics</i> , <b>2014</b> , 9, 1149-1153	2.4	13
44	Ultra-broadband solar absorbers for high-efficiency thermophotovoltaics. <i>Optics Express</i> , <b>2020</b> , 28, 36476-36483	5.3	13
43	A Novel SERS Substrate Platform: Spatially Stacking Plasmonic Hotspots Films. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 94	5	12
42	Tunable dual-band plasmonic perfect absorber and its sensing applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2750	1.7	12
41	Monochromatic filter with multiple manipulation approaches by the layered all-dielectric patch array. <i>Nanotechnology</i> , <b>2016</b> , 27, 125202	3.4	11
40	Effects of Compound Rectangular Subwavelength Hole Arrays on Enhancing Optical Transmission. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-8	1.8	10
39	Improved Multispectral Antireflection and Sensing of Plasmonic Slits by Silver Mirror. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 2111-2114	2.2	10
38	Plasmonic wavy surface for ultrathin semiconductor black absorbers. <i>Optics Express</i> , <b>2020</b> , 28, 27764-27773	5.3	10
37	High-Quality Plasmon Sensing with Excellent Intensity Contrast by Dual Narrow-Band Light Perfect absorbers. <i>Plasmonics</i> , <b>2017</b> , 12, 65-68	2.4	9
36	High-performance plasmonic oblique sensors for the detection of ions. <i>Nanotechnology</i> , <b>2020</b> , 31, 28550	3.4	9

35	Multispectral Sharp Plasmon Resonances for Polarization-Manipulated Subtractive Polychromatic Filtering and Sensing. <i>Plasmonics</i> , <b>2015</b> , 10, 821-830	2.4	9
34	Ultra-high quality graphene perfect absorbers for high performance switching manipulation. <i>Optics Express</i> , <b>2020</b> , 28, 37294-37306	3.3	9
33	Improving Plasmon Sensing Performance by Exploiting the Spatially Confined Field. <i>Plasmonics</i> , <b>2016</b> , 11, 29-36	2.4	8
32	Enabling Access to the Confined Optical Field to Achieve High-Quality Plasmon Sensing. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 1-1	2.2	8
31	High-quality Temperature Sensor Based on the Plasmonic Resonant Absorber. <i>Plasmonics</i> , <b>2019</b> , 14, 279-283	2.8	8
30	An ultra-broadband, polarization and angle-insensitive metamaterial light absorber. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 095106	3	8
29	Silicon-based light absorbers with unique polarization-adjusting effects. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 505109	3	7
28	Multi-resonant refractory prismoid for full-spectrum solar energy perfect absorbers. <i>Optics Express</i> , <b>2020</b> , 28, 31763-31774	3.3	7
27	Refractory Materials and Plasmonics Based Perfect Absorbers. <i>Nanotechnology</i> , <b>2020</b> ,	3.4	7
26	Si nano-cavity enabled surface-enhanced Raman scattering signal amplification. <i>Nanotechnology</i> , <b>2019</b> , 30, 465204	3.4	6
25	Near-field plasmon effects in extraordinary optical transmission through periodic triangular hole arrays. <i>Optical Engineering</i> , <b>2014</b> , 53, 107108	1.1	6
24	Controlling Decoherence from Fluctuating Magnetic Field. <i>International Journal of Theoretical Physics</i> , <b>2010</b> , 49, 18-24	1.1	6
23	Semiconductor-nanoantenna-assisted solar absorber for ultra-broadband light trapping. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 76	5	6
22	Silicon Antennas Metasurface Based Light Absorber With Quantitatively Adjustable Operating Frequency and Intensity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 27, 1-6	3.8	6
21	Engineering a light-emitting planar defect within three-dimensional photonic crystals. <i>Science and Technology of Advanced Materials</i> , <b>2009</b> , 10, 055001	7.1	5
20	Large-scale reflective optical Janus color materials. <i>Nanotechnology</i> , <b>2020</b> , 31, 225301	3.4	4
19	Hybrid metal-semiconductor cavities for multi-band perfect light absorbers and excellent electric conducting interfaces. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 335106	3	4
18	Making a Conducting Metal with Optical Transparency via Coupled Plasmonic-Photonic Nanostructures. <i>Plasmonics</i> , <b>2015</b> , 10, 1195-1200	2.4	3

17	Robust Optical Transparency of a Continuous Metal Film Sandwiched by Plasmonic Crystals. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1738-1741	2.2	3
16	Ultra-sharp Plasmonic Super-cavity Resonance and Light Absorption. <i>Plasmonics</i> , <b>2020</b> , 15, 11-19	2.4	3
15	Nano-slit assisted high-Q photonic resonant perfect absorbers. <i>Optics Express</i> , <b>2021</b> , 29, 5270-5278	3.3	3
14	Common Metal-Dielectric-Metal Nanocavities for Multispectral Narrowband Light Absorption. <i>Plasmonics</i> , <b>2016</b> , 11, 781-786	2.4	2
13	Overcoming Decoherent Effects from Squeezed Vacuum Reservoir. <i>International Journal of Theoretical Physics</i> , <b>2010</b> , 49, 1936-1943	1.1	2
12	Polarization-Induced Tunability of Plasmonic Light Absorption in Arrays of Sub-Wavelength Elliptical Disks. <i>Plasmonics</i> , <b>2016</b> , 11, 79-86	2.4	1
11	Tunable, large-scale and low-cost Si infrared absorbers. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 465107		1
10	A New Photonic Crystal Channel Drop Filter <b>2012</b> ,		1
9	Metal-free plasmonic refractory core-shell nanowires for tunable all-dielectric broadband perfect absorbers. <i>Optics Express</i> , <b>2020</b> , 28, 37049-37057	3.3	1
8	Asymmetric plasmonic-semiconductor cavities for angle-adjusted dual-band differential absorption responses. <i>Optics Communications</i> , <b>2021</b> , 485, 126722	2	1
7	Solar energy full-spectrum perfect absorption and efficient photo-thermal generation*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 084206	1.2	1
6	Ultra-narrowband resonant light absorber for high-performance thermal-optical modulators. <i>Optics Express</i> , <b>2021</b> , 29, 31048-31057	3.3	1
5	Super-Absorbers by Randomly Distributed Titanium Spheres. <i>IEEE Photonics Technology Letters</i> , <b>2021</b> , 1-1	2.2	1
4	DVD assisted titanium metasurface for solar energy perfect absorption and potential applications for local thermal antibacterial treatment. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 115106	3	0
3	Rapid preparation of large-area densely packed plasmonic hot-spots for reliable sers sensing. <i>Technical Physics</i> , <b>2018</b> , 125, 432	0	
2	Rapid Preparation of Large-Area Densely Packed Plasmonic Hot-Spots for Reliable Sers Sensing. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 447-453	0.7	
1	Selective Light Absorption and Spectral Manipulation via an Electro-Optical Nano-Cavity. <i>IEEE Photonics Journal</i> , <b>2022</b> , 1-1	1.8	