Guiqiang Liu

List of Publications by Year in Descending Order

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	Selective Light Absorption and Spectral Manipulation via an Electro-Optical Nano-Cavity. *IEEE Photonics Journal*, **2022**, 1-1	1.8	
69	Multi-functional polarization conversion manipulation via graphene-based metasurface reflectors. *Optics Express*, **2021**, 29, 70-81	3.3	28
68	Asymmetric plasmonic-semiconductor cavities for angle-adjusted dual-band differential absorption responses. *Optics Communications*, **2021**, 485, 126722	2	1
67	Silicon Antennas Metasurface Based Light Absorber With Quantitatively Adjustable Operating Frequency and Intensity. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-6	3.8	6
66	Recent progresses on metamaterials for optical absorption and sensing: a review. *Journal Physics D: Applied Physics*, **2021**, 54, 113002	3	19
65	Nano-slit assisted high-Q photonic resonant perfect absorbers. *Optics Express*, **2021**, 29, 5270-5278	3.3	3
64	Solar energy full-spectrum perfect absorption and efficient photo-thermal generation*. *Chinese Physics B*, **2021**, 30, 084206	1.2	1
63	Ultra-narrowband resonant light absorber for high-performance thermal-optical modulators. *Optics Express*, **2021**, 29, 31048-31057	3.3	1
62	Super-Absorbers by Randomly Distributed Titanium Spheres. *IEEE Photonics Technology Letters*, **2021**, 1-1	2.2	1
61	DVD assisted titanium metasurface for solar energy perfect absorption and potential applications for local thermal antibacterial treatment. *Journal Physics D: Applied Physics*, **2021**, 54, 115106	3	0
60	High-performance plasmonic oblique sensors for the detection of ions. *Nanotechnology*, **2020**, 31, 285501	3.4	9
59	Metamaterial and nanomaterial electromagnetic wave absorbers: structures, properties and applications. *Journal of Materials Chemistry C*, **2020**, 8, 12768-12794	7.1	25
58	Large-scale reflective optical Janus color materials. *Nanotechnology*, **2020**, 31, 225301	3.4	4
57	Polarization and angle insensitive ultra-broadband mid-infrared perfect absorber. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126288	2.3	13
56	Colloid templated semiconductor meta-surface for ultra-broadband solar energy absorber. *Solar Energy*, **2020**, 198, 194-201	6.8	17
55	Plasmonic wavy surface for ultrathin semiconductor black absorbers. *Optics Express*, **2020**, 28, 27764-27773	3.3	10
54	Multi-resonant refractory prismoid for full-spectrum solar energy perfect absorbers. *Optics Express*, **2020**, 28, 31763-31774	3.3	7

53	Ultra-broadband solar absorbers for high-efficiency thermophotovoltaics. *Optics Express*, **2020**, 28, 36476-36486	3.3	63
52	Ultra-high quality graphene perfect absorbers for high performance switching manipulation. *Optics Express*, **2020**, 28, 37294-37306	3.3	9
51	Metal-free plasmonic refractory core-shell nanowires for tunable all-dielectric broadband perfect absorbers. *Optics Express*, **2020**, 28, 37049-37057	3.3	1
50	High-Q plasmonic graphene absorbers for electrical switching and optical detection. *Carbon*, **2020**, 166, 256-264	10.4	22
49	Ultra-narrow multi-band polarization-insensitive plasmonic perfect absorber for sensing. *Nanotechnology*, **2020**, 31, 465501	3.4	18
48	An ultra-broadband, polarization and angle-insensitive metamaterial light absorber. *Journal Physics D: Applied Physics*, **2020**, 53, 095106	3	8
47	Plasmonic sensors with an ultra-high figure of merit. *Nanotechnology*, **2020**, 31, 115208	3.4	16
46	Semiconductor-nanoantenna-assisted solar absorber for ultra-broadband light trapping. *Nanoscale Research Letters*, **2020**, 15, 76	5	6
45	Ultra-sharp Plasmonic Super-cavity Resonance and Light Absorption. *Plasmonics*, **2020**, 15, 11-19	2.4	3
44	Refractory Materials and Plasmonics Based Perfect Absorbers. *Nanotechnology*, **2020**,	3.4	7
43	Truncated titanium/semiconductor cones for wide-band solar absorbers. *Nanotechnology*, **2019**, 30, 305203	3.4	71
42	A Novel SERS Substrate Platform: Spatially Stacking Plasmonic Hotspots Films. *Nanoscale Research Letters*, **2019**, 14, 94	5	12
41	High-quality Temperature Sensor Based on the Plasmonic Resonant Absorber. *Plasmonics*, **2019**, 14, 279-283	2.4	8
40	Tunable, large-scale and low-cost Si infrared absorbers. *Journal Physics D: Applied Physics*, **2019**, 52, 465107	3	1
39	Si nano-cavity enabled surface-enhanced Raman scattering signal amplification. *Nanotechnology*, **2019**, 30, 465204	3.4	6
38	Semiconductor-enhanced Raman scattering sensors via quasi-three-dimensional Au/Si/Au structures. *Nanophotonics*, **2019**, 8, 1095-1107	6.3	42
37	Ultra-broadband perfect absorber utilizing refractory materials in metal-insulator composite multilayer stacks. *Optics Express*, **2019**, 27, 11809-11818	3.3	69
36	Silicon-based light absorbers with unique polarization-adjusting effects. *Journal Physics D: Applied Physics*, **2019**, 52, 505109	3	7

35	Tunable dual-band plasmonic perfect absorber and its sensing applications. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 2750	1.7	12
34	Hybrid Metal-Semiconductor Meta-Surface Based Photo-Electronic Perfect Absorber. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-7	3.8	20
33	Near-unity, full-spectrum, nanoscale solar absorbers and near-perfect blackbody emitters. *Solar Energy Materials and Solar Cells*, **2019**, 190, 20-29	6.4	83
32	Annealed gold nanoshells with highly-dense hotspots for large-area efficient Raman scattering substrates. *Sensors and Actuators B: Chemical*, **2018**, 262, 845-851	8.5	28
31	Ultra-broadband perfect solar absorber by an ultra-thin refractory titanium nitride meta-surface. *Solar Energy Materials and Solar Cells*, **2018**, 179, 346-352	6.4	97
30	Titanium resonators based ultra-broadband perfect light absorber. *Optical Materials*, **2018**, 83, 118-123	3.3	37
29	Rapid preparation of large-area densely packed plasmonic hot-spots for reliable sers sensing-=SUP=-*-=/SUP=-. *Technical Physics*, **2018**, 125, 432	0	
28	Rapid Preparation of Large-Area Densely Packed Plasmonic Hot-Spots for Reliable Sers Sensing. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 125, 447-453	0.7	
27	Quantitatively optical and electrical-adjusting high-performance switch by graphene plasmonic perfect absorbers. *Carbon*, **2018**, 140, 362-367	10.4	65
26	High-Quality Plasmon Sensing with Excellent Intensity Contrast by Dual Narrow-Band Light Perfect absorbers. *Plasmonics*, **2017**, 12, 65-68	2.4	9
25	Semiconductor meta-surface based perfect light absorber. *Nanotechnology*, **2017**, 28, 165202	3.4	22
24	Hybrid metal-semiconductor cavities for multi-band perfect light absorbers and excellent electric conducting interfaces. *Journal Physics D: Applied Physics*, **2017**, 50, 335106	3	4
23	Multi-Band High Refractive Index Susceptibility of Plasmonic Structures with Network-Type Metasurface. *Plasmonics*, **2016**, 11, 677-682	2.4	16
22	Improving Plasmon Sensing Performance by Exploiting the Spatially Confined Field. *Plasmonics*, **2016**, 11, 29-36	2.4	8
21	Polarization-Induced Tunability of Plasmonic Light Absorption in Arrays of Sub-Wavelength Elliptical Disks. *Plasmonics*, **2016**, 11, 79-86	2.4	1
20	Monochromatic filter with multiple manipulation approaches by the layered all-dielectric patch array. *Nanotechnology*, **2016**, 27, 125202	3.4	11
19	Multi-band light perfect absorption by a metal layer-coupled dielectric metamaterial. *Optics Express* , **2016**, 24, 5020-5025	3.3	70
18	Common Metal-Dielectric-Metal Nanocavities for Multispectral Narrowband Light Absorption. *Plasmonics*, **2016**, 11, 781-786	2.4	2

17	Multispectral spatial and frequency selective sensing with ultra-compact cross-shaped antenna plasmonic crystals. *Sensors and Actuators B: Chemical*, **2015**, 215, 480-488	8.5	56
16	Making a Conducting Metal with Optical Transparency via Coupled Plasmonic-Photonic Nanostructures. *Plasmonics*, **2015**, 10, 1195-1200	2.4	3
15	Effects of Compound Rectangular Subwavelength Hole Arrays on Enhancing Optical Transmission. *IEEE Photonics Journal*, **2015**, 7, 1-8	1.8	10
14	Enabling Access to the Confined Optical Field to Achieve High-Quality Plasmon Sensing. *IEEE Photonics Technology Letters*, **2015**, 1-1	2.2	8
13	Enhancing refractive index sensing capability with hybrid plasmonic□photonic absorbers. *Journal of Materials Chemistry C*, **2015**, 3, 4222-4226	7.1	75
12	Achieving an ultra-narrow multiband light absorption meta-surface via coupling with an optical cavity. *Nanotechnology*, **2015**, 26, 235702	3.4	33
11	Multispectral Sharp Plasmon Resonances for Polarization-Manipulated Subtractive Polychromatic Filtering and Sensing. *Plasmonics*, **2015**, 10, 821-830	2.4	9
10	Automatically acquired broadband plasmonic-metamaterial black absorber during the metallic film-formation. *ACS Applied Materials & Interfaces*, **2015**, 7, 4962-8	9.5	196
9	Robust Optical Transparency of a Continuous Metal Film Sandwiched by Plasmonic Crystals. *IEEE Photonics Technology Letters*, **2014**, 26, 1738-1741	2.2	3
8	Tunable Extraordinary Optical Transmission in a Metal Film Perforated with Two-Level Subwavelength Cylindrical Holes. *Plasmonics*, **2014**, 9, 1149-1153	2.4	13
7	Improved Multispectral Antireflection and Sensing of Plasmonic Slits by Silver Mirror. *IEEE Photonics Technology Letters*, **2014**, 26, 2111-2114	2.2	10
6	Near-field plasmon effects in extraordinary optical transmission through periodic triangular hole arrays. *Optical Engineering*, **2014**, 53, 107108	1.1	6
5	A New Photonic Crystal Channel Drop Filter **2012**,		1
4	Controlling Decoherence from Fluctuating Magnetic Field. *International Journal of Theoretical Physics*, **2010**, 49, 18-24	1.1	6
3	Overcoming Decoherent Effects from Squeezed Vacuum Reservoir. *International Journal of Theoretical Physics*, **2010**, 49, 1936-1943	1.1	2
2	Engineering a light-emitting planar defect within three-dimensional photonic crystals. *Science and Technology of Advanced Materials*, **2009**, 10, 055001	7.1	5
1	High-quality photonic crystal heterostructures fabricated by a modified self-assembly method. *Applied Optics*, **2009**, 48, 2480-4	0.2	14