Guiqiang Liu

List of Publications by Year
in descending order

72 papers	2,103 citations	279798 23 h-index	243625 44 g-index
73 all docs	73 docs citations	73 times ranked	1392 citing authors

#	ARTICLE	IF	CITATIONS
1	Automatically Acquired Broadband Plasmonic-Metamaterial Black Absorber during the Metallic Film-Formation. ACS Applied Materials & Interfaces, 2015, 7, 4962-4968.	8.0	229
2	Ultra-broadband perfect solar absorber by an ultra-thin refractory titanium nitride meta-surface. Solar Energy Materials and Solar Cells, 2018, 179, 346-352.	6.2	177
3	Near-unity, full-spectrum, nanoscale solar absorbers and near-perfect blackbody emitters. Solar Energy Materials and Solar Cells, 2019, 190, 20-29.	6.2	128
4	Ultra-broadband perfect absorber utilizing refractory materials in metal-insulator composite multilayer stacks. Optics Express, 2019, 27, 11809.	3.4	113
5	Truncated titanium/semiconductor cones for wide-band solar absorbers. Nanotechnology, 2019, 30, 305203.	2.6	86
6	Multi-band light perfect absorption by a metal layer-coupled dielectric metamaterial. Optics Express, 2016, 24, 5020.	3.4	84
7	Quantitatively optical and electrical-adjusting high-performance switch by graphene plasmonic perfect absorbers. Carbon, 2018, 140, 362-367.	10.3	84
8	Enhancing refractive index sensing capability with hybrid plasmonicâ€“photonic absorbers. Journal of Materials Chemistry C, 2015, 3, 4222-4226.	5.5	80
9	Titanium resonators based ultra-broadband perfect light absorber. Optical Materials, 2018, 83, 118-123.	3.6	74
10	Multi-functional polarization conversion manipulation via graphene-based metasurface reflectors. Optics Express, 2021, 29, 70.	3.4	71
11	Semiconductor-enhanced Raman scattering sensors via quasi-three-dimensional Au/Si/Au structures. Nanophotonics, 2019, 8, 1095-1107.	6.0	65
12	Multispectral spatial and frequency selective sensing with ultra-compact cross-shaped antenna plasmonic crystals. Sensors and Actuators B: Chemical, 2015, 215, 480-488.	7.8	63
13	Recent progresses on metamaterials for optical absorption and sensing: a review. Journal Physics D: Applied Physics, 2021, 54, 113002.	2.8	58
14	Ultra-broadband solar absorbers for high-efficiency thermophotovoltaics. Optics Express, 2020, 28, 36476.	3.4	49
15	Annealed gold nanoshells with highly-dense hotspots for large-area efficient Raman scattering substrates. Sensors and Actuators B: Chemical, 2018, 262, 845-851.	7.8	45
16	Metamaterial and nanomaterial electromagnetic wave absorbers: structures, properties and applications. Journal of Materials Chemistry C, 2020, 8, 12768-12794.	5.5	40
17	Achieving an ultra-narrow multiband light absorption meta-surface via coupling with an optical cavity. Nanotechnology, 2015, 26, 235702.	2.6	39
18	Ultra-narrow multi-band polarization-insensitive plasmonic perfect absorber for sensing. Nanotechnology, 2020, 31, 465501.	2.6	37

#	Article	IF	Citations
19	High-Q plasmonic graphene absorbers for electrical switching and optical detection. Carbon, 2020, 166, 256-264.	10.3	35
20	Colloid templated semiconductor meta-surface for ultra-broadband solar energy absorber. Solar Energy, 2020, 198, 194-201.	6.1	31
21	Plasmonic sensors with an ultra-high figure of merit. Nanotechnology, 2020, 31, 115208.	2.6	30
22	Semiconductor meta-surface based perfect light absorber. Nanotechnology, 2017, 28, 165202.	2.6	26
23	Hybrid Metal-Semiconductor Meta-Surface Based Photo-Electronic Perfect Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	25
24	Polarization and angle insensitive ultra-broadband mid-infrared perfect absorber. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126288.	2.1	25
25	An ultra-broadband, polarization and angle-insensitive metamaterial light absorber. Journal Physics D: Applied Physics, 2020, 53, 095106.	2.8	23
26	Multi-Band High Refractive Index Susceptibility of Plasmonic Structures with Network-Type Metasurface. Plasmonics, 2016, 11, 677-682.	3.4	22
27	A Novel SERS Substrate Platform: Spatially Stacking Plasmonic Hotspots Films. Nanoscale Research Letters, 2019, 14, 94.	5.7	21
28	Effects of Compound Rectangular Subwavelength Hole Arrays on Enhancing Optical Transmission. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	20
29	Tunable dual-band plasmonic perfect absorber and its sensing applications. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2750.	2.1	19
30	Ultra-high quality graphene perfect absorbers for high performance switching manipulation. Optics Express, 2020, 28, 37294.	3.4	18
31	Tunable Extraordinary Optical Transmission in a Metal Film Perforated with Two-Level Subwavelength Cylindrical Holes. Plasmonics, 2014, 9, 1149-1153.	3.4	16
32	Refractory materials and plasmonics based perfect absorbers. Nanotechnology, 2021, 32, 132002.	2.6	16
33	Plasmonic wavy surface for ultrathin semiconductor black absorbers. Optics Express, 2020, 28, 27764.	3.4	16
34	High-quality photonic crystal heterostructures fabricated by a modified self-assembly method. Applied Optics, 2009, 48, 2480.	2.1	15
35	Semiconductor-nanoantenna-assisted solar absorber for ultra-broadband light trapping. Nanoscale Research Letters, 2020, 15, 76.	5.7	15
36	Multi-resonant refractory prismoid for full-spectrum solar energy perfect absorbers. Optics Express, 2020, 28, 31763.	3.4	15

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37	High-performance plasmonic oblique sensors for the detection of ions. Nanotechnology, 2020, 31, 285501.	2.6	13
38	Monochromatic filter with multiple manipulation approaches by the layered all-dielectric patch array. Nanotechnology, 2016, 27, 125202.	2.6	12
39	Improved Multispectral Antireflection and Sensing of Plasmonic Slits by Silver Mirror. IEEE Photonics Technology Letters, 2014, 26, 2111-2114.	2.5	11
40	High-quality Temperature Sensor Based on the Plasmonic Resonant Absorber. Plasmonics, 2019, 14, 279-283.	3.4	11
41	Improving Plasmon Sensing Performance by Exploiting the Spatially Confined Field. Plasmonics, 2016, 11, 29-36.	3.4	10
42	Multispectral Sharp Plasmon Resonances for Polarization-Manipulated Subtractive Polychromatic Filtering and Sensing. Plasmonics, 2015, 10, 821-830.	3.4	9
43	Enabling access to the confined optical field to achieve high-quality plasmon sensing. IEEE Photonics Technology Letters, 2015, , 1-1.	2.5	9
44	High-Quality Plasmon Sensing with Excellent Intensity Contrast by Dual Narrow-Band Light Perfect absorbers. Plasmonics, 2017, 12, 65-68.	3.4	9
45	Si nano-cavity enabled surface-enhanced Raman scattering signal amplification. Nanotechnology, 2019, 30, 465204.	2.6	9
46	Ultra-narrowband resonant light absorber for high-performance thermal-optical modulators. Optics Express, 2021, 29, 31048.	3.4	9
47	Silicon-based light absorbers with unique polarization-adjusting effects. Journal Physics D: Applied Physics, 2019, 52, 505109.	2.8	7
48	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.	2.9	7
49	Nano-slit assisted high-Q photonic resonant perfect absorbers. Optics Express, 2021, 29, 5270.	3.4	7
50	Ultra-broadband solar light wave trapping by gradient cavity-thin-film metasurface. Journal Physics D: Applied Physics, 0, , .	2.8	7
51	Engineering a light-emitting planar defect within three-dimensional photonic crystals. Science and Technology of Advanced Materials, 2009, 10, 055001.	6.1	6
52	Controlling Decoherence from Fluctuating Magnetic Field. International Journal of Theoretical Physics, 2010, 49, 18-24.	1.2	6
53	Near-field plasmon effects in extraordinary optical transmission through periodic triangular hole arrays. Optical Engineering, 2014, 53, 107108.	1.0	6
54	Large-scale reflective optical Janus color materials. Nanotechnology, 2020, 31, 225301.	2.6	6

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55	Hybrid metal-semiconductor cavities for multi-band perfect light absorbers and excellent electric conducting interfaces. Journal Physics D: Applied Physics, 2017, 50, 335106.	2.8	4
56	Solar energy full-spectrum perfect absorption and efficient photo-thermal generation*. Chinese Physics B, 2021, 30, 084206.	1.4	4
57	Super-Absorbers by Randomly Distributed Titanium Spheres. IEEE Photonics Technology Letters, 2021, 33, 247-250.	2.5	4
58	Metal-free plasmonic refractory core-shell nanowires for tunable all-dielectric broadband perfect absorbers. Optics Express, 2020, 28, 37049.	3.4	4
59	Robust Optical Transparency of a Continuous Metal Film Sandwiched by Plasmonic Crystals. IEEE Photonics Technology Letters, 2014, 26, 1738-1741.	2.5	3
60	Making a Conducting Metal with Optical Transparency via Coupled Plasmonic-Photonic Nanostructures. Plasmonics, 2015, 10, 1195-1200.	3.4	3
61	Common Metal-Dielectric-Metal Nanocavities for Multispectral Narrowband Light Absorption. Plasmonics, 2016, 11, 781-786.	3.4	3
62	Ultra-sharp Plasmonic Super-cavity Resonance and Light Absorption. Plasmonics, 2020, 15, 11-19.	3.4	3
63	Overcoming Decoherent Effects from Squeezed Vacuum Reservoir. International Journal of Theoretical Physics, 2010, 49, 1936-1943.	1.2	2
64	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.	2.8	2
65	Kerr nonlinear medium assisted double-face absorbers for differential manipulation via an all-optical operation. Optics Express, 2022, 30, 26597.	3.4	2
66	A New Photonic Crystal Channel Drop Filter. , 2012, , .		1
67	Polarization-Induced Tunability of Plasmonic Light Absorption in Arrays of Sub-Wavelength Elliptical Disks. Plasmonics, 2016, 11, 79-86.	3.4	1
68	Tunable, large-scale and low-cost Si infrared absorbers. Journal Physics D: Applied Physics, 2019, 52, 465107.	2.8	1
69	Asymmetric plasmonic-semiconductor cavities for angle-adjusted dual-band differential absorption responses. Optics Communications, 2021, 485, 126722.	2.1	1
70	Selective Light Absorption and Spectral Manipulation via an Electro-Optical Nano-Cavity. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	1
71	Influence of Experimental Parameters on the Surface-Enhanced Raman Scattering via Gold Nanoparticle Arrays. , 2012, , .		0
72	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.	0.6	0