

# Ultra-wideband and wide-angle perfect solar energy absorption by surface plasmon resonance

Physical Chemistry Chemical Physics

23, 17041-17048

DOI: [10.1039/d1cp03036a](https://doi.org/10.1039/d1cp03036a)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Broadband Solar Absorber Based on Square Ring cross Arrays of ZnS. <i>Micromachines</i> , 2021, 12, 909.	1.4	3
2	Quadruple plasmon-induced transparency of polarization desensitization caused by the Boltzmann function. <i>Optics Express</i> , 2021, 29, 29387.	1.7	31
3	Ultra-Wideband and Wide-Angle Perfect Solar Energy Absorber Based on Titanium and Silicon Dioxide Colloidal Nanoarray Structure. <i>Nanomaterials</i> , 2021, 11, 2040.	1.9	9
4	Preparation of ZnO/Bi <sub>2</sub> O <sub>3</sub> Composites as Heterogeneous Thin Film Materials with High Photoelectric Performance on FTO Base. <i>Coatings</i> , 2021, 11, 1140.	1.2	15
5	An Asymmetric Silicon Grating Dual-Narrow-Band Perfect Absorber Based on Dielectric-Metal-Dielectric Structure. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	5
6	Design of Grating Type GaAs Solar Absorber and Investigation of Its Photoelectric Characteristics. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	8
7	Review on tailored phase change behavior of hydrated salt as phase change materials for energy storage. <i>Materials Today Energy</i> , 2021, 22, 100866.	2.5	19
8	The influence of $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> film thickness on the optoelectronic properties of $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> @ZnO nanocomposite heterogeneous materials. <i>Materials Today Communications</i> , 2021, 29, 102873.	0.9	9
9	Coherent Surface Plasmon Hole Burning via Spontaneously Generated Coherence. <i>Molecules</i> , 2021, 26, 6497.	1.7	2
10	Terahertz Broadband Absorber Based on a Combined Circular Disc Structure. <i>Micromachines</i> , 2021, 12, 1290.	1.4	12
11	Preparation of core-shell heterojunction photocatalysts by coating CdS nanoparticles onto Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> hierarchical microspheres and their photocatalytic removal of organic pollutants and Cr(VI) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 633, 127918.	2.3	189
12	Tunable bandstop filter using graphene in terahertz frequency band. <i>AEU - International Journal of Electronics and Communications</i> , 2022, 144, 154047.	1.7	10
13	Switchable efficiency terahertz anomalous refraction and focusing based on graphene metasurface. <i>Diamond and Related Materials</i> , 2022, 121, 108743.	1.8	70
14	Terahertz perfect absorber based on flexible active switching of ultra-broadband and ultra-narrowband. <i>Optics Express</i> , 2021, 29, 42787.	1.7	47
15	Refractive index sensing of double Fano resonance excited by nano-cube array coupled with multilayer all-dielectric film. <i>Chinese Physics B</i> , 0, , .	0.7	19
16	A four-band and polarization-independent BDS-based tunable absorber with high refractive index sensitivity. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26864-26873.	1.3	189
17	Active manipulation of toroidal resonance in hybrid metal-vanadium dioxide metamaterial. <i>Results in Physics</i> , 2022, 33, 105146.	2.0	2
18	Derivation of a semi-analytical method for designing tunable metamaterial absorbers. <i>Optics and Laser Technology</i> , 2022, 148, 107785.	2.2	1

#	ARTICLE	IF	CITATIONS
19	Surface doping of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> with S: Enhanced photocatalytic activity, mechanism and potential photodegradation application. <i>Materials Research Bulletin</i> , 2022, 149, 111711.	2.7	53
20	Realization of 18.97% theoretical efficiency of 0.9 $\lambda$ /4m thick c-Si/ZnO heterojunction ultrathin-film solar cells via surface plasmon resonance enhancement. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4871-4880.	1.3	156
21	Theoretical Comparison of Optothermal Absorption in Transmissive Metalenses Composed of Nanobricks and Nanoholes. <i>Photonics</i> , 2022, 9, 39.	0.9	0
22	The Light Absorption Enhancement in Graphene Monolayer Resulting from the Diffraction Coupling of Surface Plasmon Polariton Resonance. <i>Nanomaterials</i> , 2022, 12, 216.	1.9	17
23	Mica-stabilized polyethylene glycol composite phase change materials for thermal energy storage. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 168-176.	2.4	43
24	Independently tunable dual resonant dip refractive index sensor based on metal-insulator-metal waveguide with Q-shaped resonant cavity. <i>Chinese Physics B</i> , 2022, 31, 034211.	0.7	14
25	Theoretical fabrication of subwavelength structures by surface plasmon interference based on complementary grating. <i>Modern Physics Letters B</i> , 2022, 36, .	1.0	4
26	Towards Investigating Surface Quality of Single-Crystal Silicon Optics Polished with Different Processes. <i>Coatings</i> , 2022, 12, 158.	1.2	4
27	Design and Photoelectric Performance of Perfect Solar Absorber Based on GaAs Grating. <i>Frontiers in Materials</i> , 2022, 8, .	1.2	2
28	Plasmonically Enhanced Superradiance of Broken-Symmetry Diamond Color Center Arrays Inside Core-Shell Nanoresonators. <i>Nanomaterials</i> , 2022, 12, 352.	1.9	2
29	A switchable terahertz device combining ultra-wideband absorption and ultra-wideband complete reflection. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2527-2533.	1.3	186
30	High sensitivity dual-band perfect plasmon absorber based on graphene split-ring-resonator. <i>Diamond and Related Materials</i> , 2022, 123, 108789.	1.8	3
31	Enhanced photocatalytic activity, mechanism and potential application of Idoped-Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> photocatalysts. <i>Materials Today Chemistry</i> , 2022, 23, 100750.	1.7	28
32	Independently tunable triple-band infrared perfect absorber based on the square loops-shaped nano-silver structure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115122.	1.3	5
33	Design of a Highly Efficient Subwavelength Antireflective Structure for Solar Cells. <i>International Journal of Optics</i> , 2022, 2022, 1-5.	0.6	0
34	Fabrication of Metal-Insulator-Metal Nanostructures Composed of Au-MgF <sub>2</sub> -Au and Its Potential in Responding to Two Different Factors in Sample Solutions Using Individual Plasmon Modes. <i>Micromachines</i> , 2022, 13, 257.	1.4	2
35	Realizing PIT-like transparency via the coupling of plasmonic dipole and ENZ modes. <i>Optics Express</i> , 2022, 30, 8474-8481.	1.7	5
36	Plasmonic Strain Sensors Based on Au-TiO <sub>2</sub> Thin Films on Flexible Substrates. <i>Sensors</i> , 2022, 22, 1375.	2.1	3

#	ARTICLE	IF	CITATIONS
37	Sensing and slow light applications based on graphene metasurface in terahertz. <i>Diamond and Related Materials</i> , 2022, 123, 108881.	1.8	23
38	Template-free synthesis of Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> hierarchical nanotubes self-assembled from ordered nanoplates for promising photocatalytic applications. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8279-8295.	1.3	100
39	Thermal tuning of terahertz metamaterial absorber properties based on VO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8846-8853.	1.3	197
40	Multi-mode surface plasmon resonance absorber based on dart-type single-layer graphene. <i>RSC Advances</i> , 2022, 12, 7821-7829.	1.7	226
41	The Structure Design and Photoelectric Properties of Wideband High Absorption Ge/GaAs/P3HT:PCBM Solar Cells. <i>Micromachines</i> , 2022, 13, 349.	1.4	3
42	Light Harvesting in Silicon Nanowires Solar Cells by Using Graphene Layer and Plasmonic Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2519.	1.3	11
43	Terahertz multimode modulator based on tunable triple-plasmon-induced transparency in monolayer graphene metamaterials. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2022, 39, 594.	0.8	19
44	Synthesis of carnation flower-like Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> photocatalyst and its promising application for photoreduction of Cr(VI). <i>Advanced Powder Technology</i> , 2022, 33, 103481.	2.0	124
45	Broadband Tamm Plasmons in Chirped Photonic Crystals for Light-Induced Water Splitting. <i>Nanomaterials</i> , 2022, 12, 928.	1.9	6
46	Plasmonic Superstructure Arrays Fabricated by Laser Near-Field Reduction for Wide-Range SERS Analysis of Fluorescent Materials. <i>Nanomaterials</i> , 2022, 12, 970.	1.9	11
47	Highly Transparent and Polarization-Maintained Terahertz Plasmonic Metamaterials Based on Metal-Wire-Woven Hole Arrays: Fundamentals and Characterization of Transmission Spectral Peaks. <i>Materials</i> , 2022, 15, 1871.	1.3	3
48	Design and analysis of surface plasmon resonance based photonic crystal fiber sensor employing gold nanowires. <i>Optik</i> , 2022, 260, 169026.	1.4	13
49	Metal-graphene hybrid terahertz metamaterial based on dynamically switchable electromagnetically induced transparency effect and its sensing performance. <i>Diamond and Related Materials</i> , 2022, 124, 108935.	1.8	25
50	Tunable band-pass plasmonic filter and wavelength triple-channel demultiplexer based on square nanodisk resonator in MIM waveguide. <i>Optik</i> , 2022, 257, 168824.	1.4	7
51	Genetic algorithms designed ultra-broadband achromatic metalens in the visible. <i>Optik</i> , 2022, 258, 168868.	1.4	8
52	A graphene perfect absorber with tunable, dual band, high sensitivity characteristics. <i>Diamond and Related Materials</i> , 2022, 125, 109002.	1.8	6
53	Enhanced sensing of terahertz surface plasmon polaritons in graphene/l-aggregate coupler using FDTD method. <i>Diamond and Related Materials</i> , 2022, 125, 109005.	1.8	23
54	A narrow-band tunable perfect absorber based on graphene and the application potential research. <i>Diamond and Related Materials</i> , 2022, 125, 108973.	1.8	36

#	ARTICLE	IF	CITATIONS
55	A novel surface plasmon resonance-based photonic crystal fiber refractive index sensor with an ultra-wide detection range. <i>Optik</i> , 2022, 259, 168977.	1.4	7
56	Emerging PEG/VO <sub>2</sub> dual phase change materials for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2022, 239, 111686.	3.0	18
57	High efficiency Titanium oxides and nitrides ultra-broadband solar energy absorber and thermal emitter from 200Ånm to 2600Ånm. <i>Optics and Laser Technology</i> , 2022, 150, 108002.	2.2	62
58	Morphology of ZnO nanorods and Au@ZnO heterostructures on different seed layers and their influence on the optical behavior. <i>Journal of Luminescence</i> , 2022, 246, 118813.	1.5	11
59	Comparative investigation on synthesis, morphological tailoring and photocatalytic activities of Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 644, 128758.	2.3	95
60	Prediction of spectral absorption of anisotropic $\text{In}_2\text{S}_3$ -MoO <sub>3</sub> nanostructure using deep neural networks. <i>International Journal of Thermal Sciences</i> , 2022, 177, 107587.	2.6	14
61	Ultra-sensitive narrow-band plasmonic perfect absorber for sensing applications. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2022, 50, 101018.	1.0	7
62	Ultra Narrow Dual-Band Perfect Absorber Based on a Dielectric~Dielectric~Metal Three-Layer Film Material. <i>Micromachines</i> , 2021, 12, 1552.	1.4	2
63	Phase-Change Metasurface by U-Shaped Atoms for Photonic Switch with High Contrast Ratio. <i>Coatings</i> , 2021, 11, 1499.	1.2	4
64	An Ultrathin Wideband Microwave Metamaterial Absorber Based on Frequency Selective Surface. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	1
65	Ultra-Narrowband Anisotropic Perfect Absorber Based on $\text{In}_2\text{S}_3$ -MoO <sub>3</sub> Metamaterials in the Visible Light Region. <i>Nanomaterials</i> , 2022, 12, 1375.	1.9	12
66	Ultraflexible Photothermal Superhydrophobic Coating with Multifunctional Applications Based on Plasmonic TiN Nanoparticles. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	18
67	Graphene-based multilayer metasurface solar absorber with parameter optimization and behavior prediction using Long Short-Term Memory model. <i>Renewable Energy</i> , 2022, 191, 47-58.	4.3	20
68	Perfect metamaterial absorber for solar energy utilization. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107638.	2.6	35
69	Grating Structure Broadband Absorber Based on Gallium Arsenide and Titanium. <i>Coatings</i> , 2022, 12, 588.	1.2	2
70	Fiber optic sensor for nondestructive detection of microbial growth on a silk surface. <i>Applied Optics</i> , 2022, 61, 4463.	0.9	2
71	Plasmon mode manipulation based on multi-layer hyperbolic metamaterials. <i>Optics Express</i> , 2022, 30, 22353.	1.7	8
72	High-Efficiency Crystalline Silicon-Based Solar Cells Using Textured TiO <sub>2</sub> Layer and Plasmonic Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 1589.	1.9	5

#	ARTICLE	IF	CITATIONS
73	Refractive Index Sensor Based on a Metal-Insulator-Metal Bus Waveguide Coupled with a U-Shaped Ring Resonator. <i>Micromachines</i> , 2022, 13, 750.	1.4	6
74	A Review: The Functional Materials-Assisted Terahertz Metamaterial Absorbers and Polarization Converters. <i>Photonics</i> , 2022, 9, 335.	0.9	18
75	A new technique to optimize the properties of photonic crystal fibers supporting transmission of multiple orbital angular momentum modes. <i>Journal of Optics (India)</i> , 2023, 52, 307-316.	0.8	7
76	Surface plasmon resonance biosensor based on a D-shaped photonic crystal fiber using Ti3C2Tx MXene material. <i>Optical Materials</i> , 2022, 128, 112397.	1.7	21
77	Graphene and metal hybridized terahertz metasurfaces toward tunable plasmon-induced transparency effects. <i>Current Applied Physics</i> , 2022, 39, 158-165.	1.1	11
78	High-performance dual-control tunable absorber with switching function and high sensitivity based on Dirac semi-metallic film and vanadium oxide. <i>Optics and Laser Technology</i> , 2022, 153, 108245.	2.2	12
79	Tunable Narrow-Band Filter Based on Long-Range Surface Plasmon Polariton Waveguide Bragg Grating. <i>Photonics</i> , 2022, 9, 344.	0.9	3
80	Broadband solar absorbers with excellent thermal radiation efficiency based on W $\alpha$ Al $\alpha$ O $\alpha$ 3 stack of cubes. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107683.	2.6	12
81	Dual-Band Terahertz Perfect Absorber Based on Metal Micro-Nano Structure. <i>Coatings</i> , 2022, 12, 687.	1.2	6
82	A novel photonic crystal fiber refractive index sensor with ultra wide detection range based on surface plasmon resonance effect. <i>Optik</i> , 2022, 262, 169287.	1.4	2
83	A fiber optic communication shield based on a two-dimensional molybdenum disulfide broadband absorber. <i>Optics and Laser Technology</i> , 2022, 153, 108284.	2.2	7
84	Simultaneously achieving narrowband and broadband light absorption enhancement in monolayer graphene. <i>Diamond and Related Materials</i> , 2022, 126, 109122.	1.8	21
85	Broadband metamaterial absorber in the visible region using a petal-shaped resonator for solar cell applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 142, 115327.	1.3	18
86	High-Property Refractive Index and Bio-Sensing Dual-Purpose Sensor Based on SPPs. <i>Micromachines</i> , 2022, 13, 846.	1.4	4
87	Challenges and prospects of plasmonic metasurfaces for photothermal catalysis. <i>Nanophotonics</i> , 2022, 11, 3035-3056.	2.9	22
88	High Birefringence D-Shaped Germanium-Doped Photonic Crystal Fiber Sensor. <i>Micromachines</i> , 2022, 13, 826.	1.4	68
89	Wide spectrum solar energy absorption based on germanium plated ZnO nanorod arrays: Energy band regulation, Finite element simulation, Super hydrophilicity, Photothermal conversion. <i>Applied Materials Today</i> , 2022, 28, 101531.	2.3	25
90	Near-perfect spectrally-selective metasurface solar absorber based on tungsten octagonal prism array. <i>RSC Advances</i> , 2022, 12, 16823-16834.	1.7	4

#	ARTICLE	IF	CITATIONS
91	Design of photonic crystal fiber to excite surface plasmon resonance for highly sensitive magnetic field sensing. Optics Express, 2022, 30, 29271.	1.7	10
92	Multiband polarization insensitive and tunable terahertz metamaterial perfect absorber based on the heterogeneous structure of graphene. Optical and Quantum Electronics, 2022, 54, .	1.5	25
93	Near-infrared perfect absorber based on critical coupling of circular cross metals and single-layer graphene. Diamond and Related Materials, 2022, 127, 109186.	1.8	0
94	Regulation of structural and terahertz properties of TiC nanoparticles by carbon-coating and nitrogen-doping. Journal of Physics and Chemistry of Solids, 2022, 169, 110825.	1.9	6
95	Metamaterial Solar Absorber Based on Refractory Metal Titanium and Its Compound. Coatings, 2022, 12, 929.	1.2	4
96	Perfect Absorption of Fan-Shaped Graphene Absorbers with Good Adjustability in the Mid-Infrared. Coatings, 2022, 12, 990.	1.2	1
97	Randomly Textured Absorber for Omnidirectional Light Absorption. Advanced Optical Materials, 2022, 10, .	3.6	4
98	Frequency Scanning Dual-Mode Asymmetric Dual-OAM-Wave Generation Base on Broadband PB Metasurface. Micromachines, 2022, 13, 1117.	1.4	4
99	Theoretical study of sub-wavelength gratings fabrication by TMO mode interference in symmetric metal-cladding dielectric waveguide. Applied Physics B: Lasers and Optics, 2022, 128, .	1.1	2
100	Optically switchable ultra-broadband terahertz perfect absorption in doped superlattice photonic-crystal silicon. Optical Engineering, 2022, 61, .	0.5	0
101	Design of an ultra-wideband solar energy absorber with wide-angle and polarization independent characteristics. Optical Materials, 2022, 131, 112683.	1.7	22
102	Tri-functional metamaterials integrated with vanadium dioxide in terahertz regions. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115414.	1.3	6
103	Ultra-broadband metamaterial absorber for capturing solar energy from visible to near infrared. Surfaces and Interfaces, 2022, 33, 102244.	1.5	19
104	High sensitivity active adjustable graphene absorber for refractive index sensing applications. Diamond and Related Materials, 2022, 128, 109273.	1.8	65
105	Doubling and tripling the absorption peaks of a multi-band graphene terahertz absorber. Diamond and Related Materials, 2022, 128, 109260.	1.8	8
106	A multi-band terahertz plasmonic absorber based on fan-like metasurface. Optik, 2022, 267, 169701.	1.4	3
107	Extremely broadband light absorption by bismuth-based metamaterials involving hybrid resonances. Physical Chemistry Chemical Physics, 2022, 24, 21612-21616.	1.3	13
108	Perfect Solar Absorber with Extremely Low Infrared Emissivity. Photonics, 2022, 9, 574.	0.9	6

#	ARTICLE	IF	CITATIONS
109	Electromagnetic beam scattering of the anisotropic medium cylinder. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	0.8	0
110	Simple design of a six-band terahertz perfect metasurface absorber based on a single resonator structure. Physica Scripta, 2022, 97, 095508.	1.2	64
111	Realization of Multifunctional Metamaterial Structure Based on the Combination of Vanadium Dioxide and Graphene. Nanomaterials, 2022, 12, 2883.	1.9	4
112	Graphene based tunable bandpass filter for terahertz spectroscopy of polymers. Optik, 2022, 268, 169792.	1.4	8
113	Highly Q-factor refractive index sensor based on graphene stack. Optik, 2022, 268, 169811.	1.4	6
114	Metal-insulator-metal waveguide structure coupled with T-type and ring resonators for independent and tunable multiple Fano resonance and refractive index sensing. Optics Communications, 2023, 528, 128993.	1.0	19
115	A Novel Bio-Inspired Ag/3D-TiO <sub>2</sub> /Si SERS Substrate with Ordered Moth-like Structure. Nanomaterials, 2022, 12, 3127.	1.9	3
116	One step reactive ion etching of black germanium conical nanostructures: Ultra-wide solar spectral absorption, finite element simulation, super hydrophilicity, photothermal conversion. Solar Energy Materials and Solar Cells, 2022, 248, 112005.	3.0	18
117	Polarization-independent multifunction applications based on perfect absorption in a simple graphene metasurface. Vacuum, 2022, 206, 111515.	1.6	0
118	Design of ultra-high absorptivity solar absorber based on Ti and TiN multilayer ring structure. International Journal of Thermal Sciences, 2023, 183, 107890.	2.6	22
119	Reverse design of metamaterial absorbers based on an equivalent circuit. Physical Chemistry Chemical Physics, 2022, 24, 20390-20399.	1.3	4
120	Two-channel photonic crystal fiber based on surface plasmon resonance for magnetic field and temperature dual-parameter sensing. Physical Chemistry Chemical Physics, 2022, 24, 21233-21241.	1.3	76
121	High-Q refractive index sensors based on all-dielectric metasurfaces. RSC Advances, 2022, 12, 21264-21269.	1.7	13
122	Plasmon induced transparency effect based on four disk resonators coupled to a waveguide System. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
123	Wide angle insensitive and polarization independent graphite based superwideband absorber. Optical and Quantum Electronics, 2022, 54, .	1.5	2
124	FDTD-Based Study on Equivalent Medium Approximation Model of Surface Roughness for Thin Films Characterization Using Spectroscopic Ellipsometry. Photonics, 2022, 9, 621.	0.9	4
125	Design of Ultra-Narrow Band Graphene Refractive Index Sensor. Sensors, 2022, 22, 6483.	2.1	154
126	Field Enhancement for the Composite MXene/Black Phosphorus-Based Metasurface. Nanomaterials, 2022, 12, 3155.	1.9	3



#	ARTICLE	IF	CITATIONS
127	Refractive Index Sensor Based on the Fano Resonance in Metal-Insulator-Metal Waveguides Coupled with a Whistle-Shaped Cavity. <i>Micromachines</i> , 2022, 13, 1592.	1.4	9
128	Highly sensitive sensing of a magnetic field and temperature based on two open ring channels SPR-PCF. <i>Optics Express</i> , 2022, 30, 39055.	1.7	21
129	The optical properties of dumbbell-type nanorods for solar photothermal conversion. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 27949-27956.	1.3	6
130	A perfect absorber of multi-band, tunable monolayer patterned graphene based on surface plasmon resonance. <i>Diamond and Related Materials</i> , 2022, 130, 109498.	1.8	6
131	Design Simulation and Optimization of Germanium-Based Solar Cells with Micro-Nano Cross-Cone Absorption Structure. <i>Coatings</i> , 2022, 12, 1653.	1.2	5
132	Rapid and high sensitive detection of hexavalent chromium based on silver nanowire arrays SERS substrate. <i>Chinese Journal of Analytical Chemistry</i> , 2023, 51, 100189.	0.9	0
133	An Infrared Ultra-Broadband Absorber Based on MIM Structure. <i>Nanomaterials</i> , 2022, 12, 3477.	1.9	6
134	A high-sensitivity biosensor based on a metal-insulator-metal diamond resonator and application for biochemical and environment detections. <i>Optik</i> , 2022, 271, 170083.	1.4	12
135	PH-induced structural evolution, photodegradation mechanism and application of bismuth molybdate photocatalyst. <i>Advanced Powder Technology</i> , 2022, 33, 103858.	2.0	33
136	Dual-band and dynamic regulated terahertz linear polarization converter based on graphene metasurface. <i>Optics Communications</i> , 2023, 529, 129042.	1.0	9
137	Tunable high-sensitivity sensing detector based on Bulk Dirac semimetal. <i>RSC Advances</i> , 2022, 12, 32583-32591.	1.7	34
138	Ultra long infrared metamaterial absorber with high absorption and broad band based on nano cross surrounding. <i>Optics and Laser Technology</i> , 2023, 158, 108789.	2.2	73
139	Development of highly-efficient 0D/1D/0D dual Z-scheme CdS/ZnWO <sub>4</sub> /ZnS heterojunction photocatalysts in pollutant removal and involved mechanism. <i>Applied Surface Science</i> , 2023, 611, 155681.	3.1	46
140	Numerical and Experimental Study on Thermal Damage Induced by Medium-Infrared Laser. <i>Photonics</i> , 2022, 9, 838.	0.9	1
141	High-sensitive refractive index sensing and excellent slow light based on tunable triple plasmon-induced transparency in monolayer graphene based metamaterial. <i>Communications in Theoretical Physics</i> , 2023, 75, 015501.	1.1	8
142	Multiple structure graphite stabilized stearic acid as composite phase change materials for thermal energy storage. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 1419-1428.	4.6	19
143	Recent Advancements in Tin Halide Perovskite-Based Solar Cells and Thermoelectric Devices. <i>Nanomaterials</i> , 2022, 12, 4055.	1.9	5
144	Dual-band narrow-band absorber with perfect absorption peaks in mid-infrared and near-infrared based on surface plasmon resonance. <i>Diamond and Related Materials</i> , 2023, 132, 109624.	1.8	5

#	ARTICLE	IF	CITATIONS
145	Numerical analysis of a surface plasmon resonance based biosensor using molybdenum disulfide, molybdenum trioxide, and MXene for the diagnosis of diabetes. <i>Diamond and Related Materials</i> , 2023, 132, 109633.	1.8	5
146	Efficient direct absorption solar collector based on hollow TiN nanoparticles. <i>International Journal of Thermal Sciences</i> , 2023, 185, 108099.	2.6	16
147	Active control of amorphous and crystalline GSST multilayer layouts in a 1D gold grating through thermoplasmonic induced process. <i>International Journal of Thermal Sciences</i> , 2023, 185, 108087.	2.6	1
148	Construction of a Z-scheme Ag <sub>2</sub> MoO <sub>4</sub> /BiOBr heterojunction for photocatalytically removing organic pollutants. <i>Dalton Transactions</i> , 2022, 51, 18652-18666.	1.6	31
149	Simulated Performance of a Broadband Solar Absorber Composed of Sectioned Au Disk Structures and ZnS/Au Thin Layers. <i>Coatings</i> , 2022, 12, 1863.	1.2	5
150	Theoretical study on fabrication of sub-wavelength structures via combining low-order guided mode interference lithography with sample rotation. <i>Journal of Optics (United Kingdom)</i> , 2023, 25, 015001.	1.0	7
151	HE <sub>1,1</sub> mode excited surface plasmon resonance for high-sensitivity sensing by photonic crystal fibers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2023, 40, 35.	0.8	3
152	Construction of Z-Scheme Ag <sub>2</sub> MoO <sub>4</sub> /ZnWO <sub>4</sub> Heterojunctions for Photocatalytically Removing Pollutants. <i>Langmuir</i> , 2023, 39, 1159-1172.	1.6	22
153	Polarization-sensitive multi-frequency switches and high-performance slow light based on quadruple plasmon-induced transparency in a patterned graphene-based terahertz metamaterial. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 3820-3833.	1.3	20
154	Pd Nanoparticles/Au@SiO <sub>2</sub> Core-Shell Nanostructures for Hydrogen Sensing. <i>ACS Applied Nano Materials</i> , 2023, 6, 899-907.	2.4	2
155	Strong nonreciprocal thermal radiation of transverse electric wave in Weyl semimetal. <i>International Journal of Thermal Sciences</i> , 2023, 187, 108172.	2.6	15
156	Tunable broadband absorber based on a layered resonant structure with a Dirac semimetal. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 8489-8496.	1.3	54
157	Illustration of an extremely sensitive SPR based fiber optic gas sensor irradiated by Bessel-Gauss beam and wave theory based approach. <i>Optik</i> , 2023, 275, 170599.	1.4	0
158	Four-wave peak mid-infrared graphene surface plasmons absorber based on circular and orthogonal double ellipses. <i>Diamond and Related Materials</i> , 2023, 135, 109901.	1.8	2
159	Direct absorption solar collector: Use of nanofluids and biodegradable colloids. <i>International Journal of Thermal Sciences</i> , 2023, 190, 108292.	2.6	3
160	Multilayered gold, MgF <sub>2</sub> and tungsten based ultra wide band infrared absorber for solar cell applications. <i>Materials Chemistry and Physics</i> , 2023, 301, 127680.	2.0	5
161	Compact size Zr-Fe <sub>2</sub> O <sub>3</sub> inspired metal-dielectric angle and polarization insensitive nanostructure for efficient solar energy absorption. <i>International Journal of Thermal Sciences</i> , 2023, 190, 108330.	2.6	8
162	A dynamically tunable terahertz metamaterial absorber with switching characteristics and excellent absorption combining Dirac semimetal and vanadium dioxide. <i>Optics and Laser Technology</i> , 2023, 163, 109408.	2.2	5

#	ARTICLE	IF	CITATIONS
163	Magneto-tunable terahertz absorption in single-layer graphene: A general approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2023, 151, 115728.	1.3	5
164	Highly efficient Vanadium Nitride based metasurface absorber/emitter for solar-thermophotovoltaic system. <i>Materials Today Communications</i> , 2023, 34, 105416.	0.9	18
165	Conversion and Active Control between Electromagnetic Induced Transparency and Absorber in Terahertz Metasurface. <i>Photonics</i> , 2023, 10, 159.	0.9	3
166	High confidence plasmonic sensor based on photonic crystal fibers with a U-shaped detection channel. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 8583-8591.	1.3	46
167	Multi-functional terahertz metamaterials based on nano-imprinting. <i>Optics Express</i> , 2023, 31, 9224.	1.7	2
168	Active tunable terahertz bandwidth absorber based on single layer graphene. <i>Communications in Theoretical Physics</i> , 2023, 75, 045503.	1.1	52
169	High Absorptivity and Ultra-Wideband Solar Absorber Based on Ti-Al <sub>2</sub> O <sub>3</sub> Cross Elliptical Disk Arrays. <i>Coatings</i> , 2023, 13, 531.	1.2	53
170	Numerical Analysis of Ultra-broadband Metamaterial Absorber with High Absorption in the Visible and Infrared Regions. <i>Plasmonics</i> , 2023, 18, 811-820.	1.8	3
171	Tunable near-perfect nonreciprocal radiation with a Weyl semimetal and graphene. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 9586-9591.	1.3	5
172	Metamaterial ultra-wideband solar absorbers based on a multi-layer structure with cross etching. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 10136-10142.	1.3	3
173	Pattern-free solar absorber driven by superposed Fabry-Pérot resonances. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 10628-10634.	1.3	7
174	Multimode tunable terahertz absorber based on a quarter graphene disk structure. <i>Results in Physics</i> , 2023, 48, 106420.	2.0	62
175	A five-peaks graphene absorber with multiple adjustable and high sensitivity in the far infrared band. <i>Diamond and Related Materials</i> , 2023, 136, 109960.	1.8	29
176	High refractive index sensitivity adjustable six band absorber based on dual regulation of embedded Dirac semi metal and active graphene. <i>Diamond and Related Materials</i> , 2023, 136, 109944.	1.8	0