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Study of energy absorption on solar cell using metamaterials

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#	Paper	IF	Citations
47	POLARIZATION ANGLE INDEPENDENT PERFECT METAMATERIAL ABSORBERS FOR SOLAR CELL APPLICATIONS IN THE MICROWAVE, INFRARED, AND VISIBLE REGIME. <i>Progress in Electromagnetics Research</i> , 2014 , 144, 93-101	3.8	76
46	Experimental Investigation on Photothermal Properties of MWCNT-H ₂ O Nanofluids for Direct Absorption Solar Collectors. <i>Applied Mechanics and Materials</i> , 2014 , 521, 19-22	0.3	
45	Improvement of the efficiency and power output of solar cells using nanoparticles and annealing. <i>Solar Energy</i> , 2014 , 101, 100-104	6.8	10
44	Effect of temperature on performance of nanostructured silicon thin-film solar cells. <i>Solar Energy</i> , 2015 , 115, 109-119	6.8	7
43	Experimental and numerical study of a broad pass-band low-loss optical metamaterials filter. <i>Optical Materials</i> , 2015 , 47, 62-66	3.3	7
42	Perfect metamaterial absorber design for solar cell applications. <i>Waves in Random and Complex Media</i> , 2015 , 25, 382-392	1.9	42
41	Dual-band perfect metamaterial absorber for solar cell applications. <i>Vacuum</i> , 2015 , 120, 68-74	3.7	64
40	Experimental and numerical study of a broad pass-band resonant optical metamaterials filter. <i>Optics Communications</i> , 2015 , 349, 42-47	2	2
39	Wide-band polarization independent perfect metamaterial absorber based on concentric rings topology for solar cells application. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 473-479	5.7	55
38	Metamaterial Absorber Based Multifunctional Sensors. <i>Journal of the Electrochemical Society</i> , 2016 , 163, B319-B324	3.9	6
37	Polarisation insensitive tunable metamaterial perfect absorber for solar cells applications. <i>IET Optoelectronics</i> , 2016 , 10, 211-216	1.5	14
36	Enhanced absorption in silicon metamaterials waveguide structure. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	11
35	Single-band high absorption and coupling between localized surface plasmons modes in a metamaterials absorber. <i>Optical Materials</i> , 2017 , 72, 283-288	3.3	6
34	Electrodeposition of Copper for Three-Dimensional Metamaterial Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40921-40929	9.5	13
33	Graphene-based wideband metamaterial absorber for solar cells application. <i>Journal of Nanophotonics</i> , 2017 , 11, 036008	1.1	21
32	Performances of a metamaterial based on semiconductors for solar cell applications. 2018 ,		
31	Metamaterial Mirror as Back Reflector for Thin Silicon Solar Cell Application. <i>Materials Today: Proceedings</i> , 2018 , 5, 23203-23209	1.4	0

30	Computational analysis of metamaterialaluminumsilicon solar cell model. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	2
29	Polarization-insensitive, ultra-broadband, and compact metamaterial-inspired optical absorber via wide-angle and highly efficient performances. <i>Applied Optics</i> , 2018 , 57, 3693-3703	1.7	23
28	Wide Angle of Incidence-Insensitive Polarization-Independent THz Metamaterial Absorber for Both TE and TM Mode Based on Plasmon Hybridizations. <i>Materials</i> , 2018 , 11,	3.5	11
27	Enhanced-bandwidth perfect absorption based on a hybrid metamaterial. <i>Optical Materials Express</i> , 2018 , 8, 2751	2.6	6
26	Enhanced light absorption in the organic thin films by coating cross-shaped metamaterial resonators onto the active layers. <i>Results in Physics</i> , 2019 , 13, 102338	3.7	3
25	Design and measure of a tunable reflection polarization converter based on hybrid dielectric layer metamaterials. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 7175-7181	2.1	2
24	TRIPLE-BAND POLARIZATION-INDEPENDENT ULTRATHIN METAMATERIAL ABSORBER. <i>Progress in Electromagnetics Research M</i> , 2019 , 77, 93-102	0.6	5
23	Efficiency boost in Si-based solar cells using tellurite glass cover layer doped with Eu ³⁺ and silver nanoparticles. <i>Optical Materials</i> , 2019 , 88, 155-160	3.3	20
22	Quasi-3D Perfect Absorber Based on the Self-Similar Parasitic Elements as an Optical Sensor with Tunable Attributes for Near-Infrared Application. <i>Journal of Electronic Materials</i> , 2020 , 49, 3269-3281	1.9	1
21	Tailoring radiative properties of a complex trapezoidal grating solar absorber by coupling between SPP and multi-order MP for solar energy harvesting. <i>Optics Communications</i> , 2021 , 479, 126416	2	7
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19	Hybrid indium tin oxide-Au metamaterial as a multiband bi-functional light absorber in the visible and near-infrared ranges. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 275102	3	5
18	Ultra-broadband selective absorber for near-perfect harvesting of solar energy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 266, 107575	2.1	11
17	Polarization-Independent Broadband Optical Regime Metamaterial Absorber for Solar Harvesting: A Numerical Approach. <i>Chinese Journal of Physics</i> , 2021 , 71, 699-715	3.5	7
16	Polarization independent triple-band (5,4) semiconducting carbon nanotube metamaterial absorber design for visible and ultraviolet regions. <i>Journal of Nanophotonics</i> , 2017 , 11, 1	1.1	4
15	Future Trends in Nanophotonics. 2013 , 427-470		1
14	Ultra-broadband electromagnetic wave absorber based on split-ring resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 3573	1.7	4
13	Highly Efficient Solar Energy Conversion Using Graded-index Metamaterial Nanostructured Waveguide. <i>Journal of Optical Communications</i> , 2020 ,	1.2	

12	Comparative Study Between the Rectangular and Trapeze Design of Plasmonic Nanoparticles. <i>Lecture Notes in Networks and Systems</i> , 2022 , 893-900	0.5	
11	Rotational symmetry engineered, polarization and incident angle-insensitive, perfect metamaterial absorber for X and Ku band wireless applications.. <i>Scientific Reports</i> , 2022 , 12, 3740	4.9	0
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9	Dielectric-Meta material Reflectors for Effective Absorption of Light in Solar Cells. <i>International Journal of Nanoscience</i> ,	0.6	
8	Development of a Flexible Metamaterial Film with High EM Wave Absorptivity by Numerical and Experimental Methods. <i>Materials</i> , 2022 , 15, 4133	3.5	
7	Applications of Nanoporous and Metamaterials: An Unornamented Review. 2022 , 20,		0
6	Numerical Simulation and Structure Optimization of Multilayer Metamaterial Plus-Shaped Solar Absorber Design Based on Graphene and SiO ₂ Substrate for Renewable Energy Generation. 2023 , 11, 282		3
5	Origami Tribo-Metamaterials with Mechanoelectrical Multistability. 2023 , 15, 2873-2880		0
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3	Numerical Analysis and Parametric Optimization of T-Shaped Symmetrical Metasurface with Broad Bandwidth for Solar Absorber Application Based on Graphene Material. 2023 , 11, 971		0
2	Parametric Optimization and Numerical Analysis of GaAs Inspired Highly Efficient I-Shaped Metamaterial Solar Absorber Design for Visible and Infrared Regions. 2023 , 13, 2586		0
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