

Wei-Chen Tu

List of Publications by Year in descending order

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times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency Enhancement of Silicon Heterojunction Solar Cells via Photon Management Using Graphene Quantum Dot as Downconverters. <i>Nano Letters</i> , 2016, 16, 309-313.	9.1	115
2	Toward Efficient and Omnidirectional n-Type Si Solar Cells: Concurrent Improvement in Optical and Electrical Characteristics by Employing Microscale Hierarchical Structures. <i>ACS Nano</i> , 2014, 8, 2959-2969.	14.6	52
3	A Design Based on a Charge-Transfer Bilayer as an Electron Transport Layer for Improving the Performance and Stability in Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 236-244.	3.1	50
4	Programmable Rainbow-Colored Optofluidic Fiber Laser Encoded with Topologically Structured Chiral Droplets. <i>ACS Nano</i> , 2021, 15, 11126-11136.	14.6	24
5	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 281-290.	6.2	23
6	Stimulated Chiral Light-Matter Interactions in Biological Microlasers. <i>ACS Nano</i> , 2021, 15, 8965-8975.	14.6	22
7	Hydrogenated amorphous silicon solar cell on glass substrate patterned by hexagonal nanocylinder array. <i>Applied Physics Letters</i> , 2010, 97, 193109.	3.3	21
8	Fabrication and Analysis of Chemically-Derived Graphene/Pyramidal Si Heterojunction Solar Cells. <i>Scientific Reports</i> , 2017, 7, 46478.	3.3	16
9	Enhanced Biophotocurrent Generation in Living Photosynthetic Optical Resonator. <i>Advanced Science</i> , 2020, 7, 1903707.	11.2	16
10	Chlorine-Doped n-Type Cuprous Oxide Films Fabricated by Chemical Bath Deposition. <i>Journal of the Electrochemical Society</i> , 2014, 161, D321-D326.	2.9	15
11	High-performance solution-processed flexible Cu ₂ O photodetector via UV-irradiation. <i>Optik</i> , 2021, 247, 167949.	2.9	15
12	Improved light scattering and surface plasmon tuning in amorphous silicon solar cells by double-walled carbon nanotubes. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 200-203.	6.2	13
13	White-Light Photosensors Based on Ag Nanoparticle-Reduced Graphene Oxide Hybrid Materials. <i>Micromachines</i> , 2018, 9, 655.	2.9	12
14	Semi-transparent reduced graphene oxide photodetectors for ultra-low power operation. <i>Optics Express</i> , 2021, 29, 14208.	3.4	11
15	Enhance the light-harvesting capability of the ITO-free inverted small molecule solar cell by ZnO nanorods. <i>Optics Express</i> , 2016, 24, 17910.	3.4	10
16	Camphor-Based CVD Bilayer Graphene/Si Heterostructures for Self-Powered and Broadband Photodetection. <i>Micromachines</i> , 2020, 11, 812.	2.9	8
17	Low-Power, Large-Area and High-Performance CdSe Quantum Dots/Reduced Graphene Oxide Photodetectors. <i>IEEE Access</i> , 2020, 8, 95855-95863.	4.2	8
18	Fabrication of flexible indium tin oxide-free polymer solar cells with silver nanowire transparent electrode. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03DD01.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Efficiency enhancement of pyramidal Si solar cells with reduced graphene oxide hybrid electrodes. Journal Physics D: Applied Physics, 2016, 49, 49LT02.	2.8	6
20	Improved Performance of All Solution-Processed Graphene Photodetectors via Plasmonic Nanoparticles. IEEE Photonics Technology Letters, 2017, 29, 423-426.	2.5	6
21	Low-Power Photodetectors Based on PVA-Modified Reduced Graphene Oxide Hybrid Solutions. Macromolecular Rapid Communications, 2022, 43, e2100854.	3.9	6
22	Fabrication of cuprous chloride films on copper substrate by chemical bath deposition. Thin Solid Films, 2015, 591, 43-48.	1.8	5
23	Design and Fabrication of Nano-Structure for Three-Dimensional Display Application. IEEE Photonics Technology Letters, 2016, 28, 884-886.	2.5	5
24	Nanometer-thick copper films with low resistivity grown on 2D material surfaces. Scientific Reports, 2022, 12, 1823.	3.3	5
25	Well-aligned Vertically Oriented ZnO Nanorod Arrays and their Application in Inverted Small Molecule Solar Cells. Journal of Visualized Experiments, 2018, , .	0.3	4
26	Flexible Indium Tin Oxide-Free Polymer Solar Cells with Silver Nanowire Electrodes. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 839-843.	0.5	3
27	Improved light scattering in amorphous silicon solar cell by double-walled carbon nanotubes. , 2011, , .		1
28	Real-time Image Contrast Enhancement VLSI Design for Intelligent Autonomous Vehicles. Journal of Imaging Science and Technology, 2020, 64, 010504-1-010504-11.	0.5	1
29	Improved Efficiency of Structured Si Solar Cells via Graphene Hybrid Materials as Top Electrodes. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 853-856.	0.5	1
30	Surface Plasmon Resonance of Graphene/Ag Nanoparticles and Reduced Graphene Oxide/Ag Nanoparticles Hybrid Films. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 868-871.	0.5	1
31	Enhanced performance of reduced graphene oxide photodetectors by Ag nanoparticles. , 2017, , .		0
32	Large-area reduced graphene oxide photodetectors for low-light intensity and low-driving voltage operation. , 2020, , .		0
33	Theoretical and Experimental Investigation of Enhanced Surface Plasmon Resonance on Ag Hierarchical Structures. Materials Focus, 2015, 4, 219-222.	0.4	0