

Di Zhang

List of Publications by Year in descending order

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46
papers

2,293
citations

361045

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docs citations

47
times ranked

4289
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress on Emerging Transparent Metallic Electrodes for Flexible Organic and Perovskite Photovoltaics. <i>Solar Rrl</i> , 2022, 6, .	3.1	14
2	Comprehensive assessment of the <i>Calotropis procera</i> natural dye extracts with weather effects for photovoltaic solar cell manufacturing. <i>International Journal of Energy Research</i> , 2022, 46, 17295-17307.	2.2	2
3	Fundamentals and performance of solar photovoltaic systems. , 2021, , 117-129.		1
4	Review of solar photovoltaic cooling systems technologies with environmental and economical assessment. <i>Journal of Cleaner Production</i> , 2021, 326, 129421.	4.6	46
5	Quantification of memory in fractional-order capacitors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 02LT03.	1.3	17
6	Synthesis and Characterization of Polycrystalline Copper Iodide (CuI) Thin Films. , 2020, , .		0
7	Structural effects of silver-nanoprism-decorated Si nanowires on surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2020, 31, 255706.	1.3	28
8	Active circuit model of low-frequency behavior in perovskite solar cells. <i>Organic Electronics</i> , 2020, 85, 105804.	1.4	7
9	Investigating Various Permutations of Copper Iodide/FeCu Tandem Materials as Electrodes for Dye-Sensitized Solar Cells with a Natural Dye. <i>Nanomaterials</i> , 2020, 10, 784.	1.9	23
10	Low-cost dye-sensitized solar cells with ball-milled tellurium-doped graphene as counter electrodes and a natural sensitizer dye. <i>International Journal of Energy Research</i> , 2019, 43, 5824-5833.	2.2	23
11	On the modeling of dispersive transient photocurrent response of organic solar cells. <i>Organic Electronics</i> , 2019, 70, 42-47.	1.4	16
12	A cost-effective nanoparticle-gap-film SERS sensor using graphene nanospacer by one-step transfer-free mechanical milling. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	11
13	Linear angstrom model applied to weather data collected for the city of Sharjah. , 2018, , .		3
14	Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites. <i>Advanced Energy Materials</i> , 2018, 8, 1801954.	10.2	40
15	Solar Cells: Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites (<i>Adv. Energy Mater.</i> 36/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870155.	10.2	2
16	Short-term memory in electric double-layer capacitors. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	41
17	Band-Pass Filter and Relaxation Oscillator using Electric Double-Layer Capacitor. <i>ChemElectroChem</i> , 2018, 5, 3793-3798.	1.7	8
18	Bulk turbostratic graphene deposition on aluminum substrates via high-pressure graphite blasting. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1943-1950.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Efficiency and high-temperature response of dye-sensitized solar cells using natural dyes extracted from Calotropis. , 2018, , .		7
20	One-step synthesis and deposition of few-layer graphene via facile, dry ball-free milling. MRS Advances, 2017, 2, 847-856.	0.5	9
21	Solution-Processed Metal Oxides as Efficient Carrier Transport Layers for Organic Photovoltaics. Small, 2016, 12, 416-431.	5.2	67
22	Room-Temperature Solution-Processed NiO _x :PbI ₂ Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. ACS Nano, 2016, 10, 6808-6815.	7.3	122
23	Influence of Magnetic Field on the Mesoporous Structure of Fe-Cu Compounds in Dye-Sensitized Photovoltaic Cells. Metallurgical and Materials Transactions E, 2016, 3, 37-45.	0.5	3
24	Nanostructures: A Smooth CH ₃ NH ₃ PbI ₃ Film via a New Approach for Forming the PbI ₂ Nanostructure Together with Strategically High CH ₃ NH ₃ I Concentration for High Efficient Planar Heterojunction Solar Cells (Adv. Energy Mater. 23/2015). Advanced Energy Materials, 2015, 5, .	10.2	10
25	Optoelectronics: Locally Welded Silver Nano-Network Transparent Electrodes with High Operational Stability by a Simple Alcohol-Based Chemical Approach (Adv. Funct. Mater. 27/2015). Advanced Functional Materials, 2015, 25, 4174-4174.	7.8	3
26	Locally Welded Silver Nano-Network Transparent Electrodes with High Operational Stability by a Simple Alcohol-Based Chemical Approach. Advanced Functional Materials, 2015, 25, 4211-4218.	7.8	131
27	A Smooth CH ₃ NH ₃ PbI ₃ Film via a New Approach for Forming the PbI ₂ Nanostructure Together with Strategically High CH ₃ NH ₃ I Concentration for High Efficient Planar Heterojunction Solar Cells. Advanced Energy Materials, 2015, 5, 1501354.	10.2	228
28	Synergic Effects of Randomly Aligned SWCNT Mesh and Self-Assembled Molecule Layer for High-Performance, Low-Bandgap, Polymer Solar Cells with Fast Charge Extraction. Advanced Materials Interfaces, 2015, 2, 1500324.	1.9	22
29	Vacuum-Assisted Thermal Annealing of CH ₃ NH ₃ PbI ₃ for Highly Stable and Efficient Perovskite Solar Cells. ACS Nano, 2015, 9, 639-646.	7.3	318
30	Post-treatment-Free Solution-Processed Non-stoichiometric NiO _x Nanoparticles for Efficient Hole-Transport Layers of Organic Optoelectronic Devices. Advanced Materials, 2015, 27, 2930-2937.	11.1	300
31	Smooth CH ₃ NH ₃ PbI ₃ from controlled solid-gas reaction for photovoltaic applications. RSC Advances, 2015, 5, 73760-73766.	1.7	17
32	Hysteresis-free, stable and efficient perovskite solar cells achieved by vacuum-treated thermal annealing of CH ₃ NH ₃ PbI ₃ . , 2015, , .		0
33	MULTI-PHYSICAL PROPERTIES OF PLASMONIC ORGANIC SOLAR CELLS (Invited Paper). Progress in Electromagnetics Research, 2014, 146, 25-46.	1.6	11
34	Nanospacers: Highly Intensified Surface Enhanced Raman Scattering by Using Monolayer Graphene as the Nanospacer of Metal Film-Metal Nanoparticle Coupling System (Adv. Funct. Mater. 21/2014). Advanced Functional Materials, 2014, 24, 3113-3113.	7.8	2
35	Selective Growth and Integration of Silver Nanoparticles on Silver Nanowires at Room Conditions for Transparent Nano-Network Electrode. ACS Nano, 2014, 8, 10980-10987.	7.3	119
36	Highly Intensified Surface Enhanced Raman Scattering by Using Monolayer Graphene as the Nanospacer of Metal Film-Metal Nanoparticle Coupling System. Advanced Functional Materials, 2014, 24, 3114-3122.	7.8	171

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37	Enhanced charge extraction in organic solar cells through electron accumulation effects induced by metal nanoparticles. <i>Energy and Environmental Science</i> , 2013, 6, 3372.	15.6	95
38	Plasmonic Electrically Functionalized TiO ₂ for High-Performance Organic Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 4255-4261.	7.8	138
39	Al-TiO ₂ Composite-Modified Single-Layer Graphene as an Efficient Transparent Cathode for Organic Solar Cells. <i>ACS Nano</i> , 2013, 7, 1740-1747.	7.3	90
40	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. <i>Applied Physics Letters</i> , 2013, 102, 113303.	1.5	49
41	PEDOT:PSS-free Au nanocluster treated graphene as transparent anode for organic solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
42	Large-area, high-quality self-assembly electron transport layer for organic optoelectronic devices. <i>Organic Electronics</i> , 2012, 13, 2042-2046.	1.4	14
43	Multi-layer graphene treated by O ₂ plasma for transparent conductive electrode applications. <i>Materials Letters</i> , 2012, 73, 187-189.	1.3	13
44	Polymer solar cells with gold nanoclusters decorated multi-layer graphene as transparent electrode. <i>Applied Physics Letters</i> , 2011, 99, 223302.	1.5	43
45	Preparation and Characteristics of Nanoscale Diamond-Like Carbon Films for Resistive Memory Applications. <i>Chinese Physics Letters</i> , 2010, 27, 098102.	1.3	15
46	Parallel and independent true random bitstreams from optical emission spectra of atmospheric microplasma arc discharge. <i>Plasma Processes and Polymers</i> , 0, , .	1.6	0