Di Zhang

List of Publications by Year
in descending order

46 papers	2,293 citations	361413 20 h-index	302126 39 g-index
47 all docs	47 docs citations	47 times ranked	4289 citing authors

#	Article	IF	Citations
1	Vacuum-Assisted Thermal Annealing of CH₃NH₃PbI₃ for Highly Stable and Efficient Perovskite Solar Cells. ACS Nano, 2015, 9, 639-646.	14.6	318
2	Postâ€treatmentâ€Free Solutionâ€Processed Nonâ€stoichiometric NiO<i>_x</i> Nanoparticles for Efficient Holeâ€Transport Layers of Organic Optoelectronic Devices. Advanced Materials, 2015, 27, 2930-2937.	21.0	300
3	A Smooth CH₃NH₃PbI₃ Film via a New Approach for Forming the PbI₂ Nanostructure Together with Strategically High CH₃NH₃I Concentration for High Efficient Planarâ€Heterojunction Solar Cells. Advanced Energy Materials, 2015, 5, 1501354.	19.5	228
4	Highly Intensified Surface Enhanced Raman Scattering by Using Monolayer Graphene as the Nanospacer of Metal Filmâ€"Metal Nanoparticle Coupling System. Advanced Functional Materials, 2014, 24, 3114-3122.	14.9	171
5	Plasmonic Electrically Functionalized TiO₂ for Highâ€Performance Organic Solar Cells. Advanced Functional Materials, 2013, 23, 4255-4261.	14.9	138
6	Locally Welded Silver Nanoâ€Network Transparent Electrodes with High Operational Stability by a Simple Alcoholâ€Based Chemical Approach. Advanced Functional Materials, 2015, 25, 4211-4218.	14.9	131
7	Room-Temperature Solution-Processed NiO_{<i>x</i>}:PbI₂ Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. ACS Nano, 2016, 10, 6808-6815.	14.6	122
8	Selective Growth and Integration of Silver Nanoparticles on Silver Nanowires at Room Conditions for Transparent Nano-Network Electrode. ACS Nano, 2014, 8, 10980-10987.	14.6	119
9	Enhanced charge extraction in organic solar cells through electron accumulation effects induced by metal nanoparticles. Energy and Environmental Science, 2013, 6, 3372.	30.8	95
10	Al-TiO₂ Composite-Modified Single-Layer Graphene as an Efficient Transparent Cathode for Organic Solar Cells. ACS Nano, 2013, 7, 1740-1747.	14.6	90
11	Solution-Processed Metal Oxides as Efficient Carrier Transport Layers for Organic Photovoltaics. Small, 2016, 12, 416-431.	10.0	67
12	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. Applied Physics Letters, 2013, 102, 113303.	3.3	49
13	Review of solar photovoltaic cooling systems technologies with environmental and economical assessment. Journal of Cleaner Production, 2021, 326, 129421.	9.3	46
14	Polymer solar cells with gold nanoclusters decorated multi-layer graphene as transparent electrode. Applied Physics Letters, 2011, 99, 223302.	3.3	43
15	Short-term memory in electric double-layer capacitors. Applied Physics Letters, 2018, 113, .	3.3	41
16	Thermionic Emissionâ€"Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solutionâ€Processed Perovskites. Advanced Energy Materials, 2018, 8, 1801954.	19.5	40
17	Structural effects of silver-nanoprism-decorated Si nanowires on surface-enhanced Raman scattering. Nanotechnology, 2020, 31, 255706.	2.6	28
18	Lowâ€cost dyeâ€sensitized solar cells with ballâ€milled telluriumâ€doped graphene as counter electrodes and a natural sensitizer dye. International Journal of Energy Research, 2019, 43, 5824-5833.	4.5	23

#	Article	IF	Citations
19	Investigating Various Permutations of Copper Iodide/FeCu Tandem Materials as Electrodes for Dye-Sensitized Solar Cells with a Natural Dye. Nanomaterials, 2020, 10, 784.	4.1	23
20	Synergic Effects of Randomly Aligned SWCNT Mesh and Selfâ€Assembled Molecule Layer for Highâ€Performance, Lowâ€Bandgap, Polymer Solar Cells with Fast Charge Extraction. Advanced Materials Interfaces, 2015, 2, 1500324.	3.7	22
21	Smooth CH₃NH₃PbI₃from controlled solidâ€“gas reaction for photovoltaic applications. RSC Advances, 2015, 5, 73760-73766.	3.6	17
22	Quantification of memory in fractional-order capacitors. Journal Physics D: Applied Physics, 2020, 53, 02LT03.	2.8	17
23	On the modeling of dispersive transient photocurrent response of organic solar cells. Organic Electronics, 2019, 70, 42-47.	2.6	16
24	Preparation and Characteristics of Nanoscale Diamond-Like Carbon Films for Resistive Memory Applications. Chinese Physics Letters, 2010, 27, 098102.	3.3	15
25	Large-area, high-quality self-assembly electron transport layer for organic optoelectronic devices. Organic Electronics, 2012, 13, 2042-2046.	2.6	14
26	Recent Progress on Emerging Transparent Metallic Electrodes for Flexible Organic and Perovskite Photovoltaics. Solar Rrl, 2022, 6, .	5.8	14
27	Multi-layer graphene treated by O2 plasma for transparent conductive electrode applications. Materials Letters, 2012, 73, 187-189.	2.6	13
28	MULTI-PHYSICAL PROPERTIES OF PLASMONIC ORGANIC SOLAR CELLS (Invited Paper). Progress in Electromagnetics Research, 2014, 146, 25-46.	4.4	11
29	A cost-effective nanoparticle-gap-film SERS sensor using graphene nanospacer by one-step transfer-free mechanical milling. Journal of Applied Physics, 2019, 125, .	2.5	11
30	Nanostructures: A Smooth CH₃NH₃PbI₃ Film via a New Approach for Forming the PbI₂ Nanostructure Together with Strategically High CH₃NH₃I Concentration for High Efficient Planarâ€Heterojunction Solar Cells (Adv. Energy Mater. 23/2015). Advanced Energy Materials, 2015, 5, .	19.5	10
31	Bulk turbostratic graphene deposition on aluminum substrates via high-pressure graphite blasting. Applied Nanoscience (Switzerland), 2018, 8, 1943-1950.	3.1	10
32	One-step synthesis and deposition of few-layer graphene via facile, dry ball-free milling. MRS Advances, 2017, 2, 847-856.	0.9	9
33	Bandâ€Pass Filter and Relaxation Oscillator using Electric Doubleâ€Layer Capacitor. ChemElectroChem, 2018, 5, 3793-3798.	3.4	8
34	Efficiency and high-temperature response of dye-sensitized solar cells using natural dyes extracted from Calotropis. , 2018, , .		7
35	Active circuit model of low-frequency behavior in perovskite solar cells. Organic Electronics, 2020, 85, 105804.	2.6	7
36	Optoelectronics: Locally Welded Silver Nanoâ€Network Transparent Electrodes with High Operational Stability by a Simple Alcoholâ€Based Chemical Approach (Adv. Funct. Mater. 27/2015). Advanced Functional Materials, 2015, 25, 4174-4174.	14.9	3

#	Article	IF	Citations
37	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
38	Linear angstrom model applied to weather data collected for the city of Sharjah. , 2018, , .		3
39	Nanospacers: Highly Intensified Surface Enhanced Raman Scattering by Using Monolayer Graphene as the Nanospacer of Metal Filmâ€"Metal Nanoparticle Coupling System (Adv. Funct. Mater. 21/2014). Advanced Functional Materials, 2014, 24, 3113-3113.	14.9	2
40	Solar Cells: Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites (Adv. Energy Mater. 36/2018). Advanced Energy Materials, 2018, 8, 1870155.	19.5	2
41	Comprehensive assessment of the <i>Calotropis procera</i> natural dye extracts with weather effects for photovoltaic solar cell manufacturing. International Journal of Energy Research, 2022, 46, 17295-17307.	4.5	2
42	Fundamentals and performance of solar photovoltaic systems. , 2021, , 117-129.		1
43	PEDOT:PSS-free Au nanocluster treated graphene as transparent anode for organic solar cells. Proceedings of SPIE, 2012, , .	0.8	0
44	Hysteresis-free, stable and efficient perovskite solar cells achieved by vacuum-treated thermal annealing of CH3NH3PbI3. , 2015, , .		0
45	Synthesis and Characterization of Polycrystalline Copper Iodide (CuI) Thin Films. , 2020, , .		0
46	Parallel and independent true random bitstreams from optical emission spectra of atmospheric microplasma arc discharge. Plasma Processes and Polymers, 0, , .	3.0	0