Xiaohong Chen

List of Publications by Year
in descending order

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40 papers	1,509 citations	331670 21 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	2234 citing authors

#	Article	IF	Citations
1	Constructing Efficient and Stable Perovskite Solar Cells via Interconnecting Perovskite Grains. ACS Applied Materials & Interfaces, 2017, 9, 35200-35208.	8.0	137
2	Efficient and Air-Stable Planar Perovskite Solar Cells Formed on Graphene-Oxide-Modified PEDOT:PSS Hole Transport Layer. Nano-Micro Letters, 2017, 9, 39.	27.0	122
3	Efficient and ultraviolet durable planar perovskite solar cells via a ferrocenecarboxylic acid modified nickel oxide hole transport layer. Nanoscale, 2018, 10, 5617-5625.	5.6	109
4	Plasmonic Effects of Metallic Nanoparticles on Enhancing Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 34821-34832.	8.0	100
5	Amazing stable open-circuit voltage in perovskite solar cells using AgAl alloy electrode. Solar Energy Materials and Solar Cells, 2016, 146, 35-43.	6.2	76
6	High Efficiency and Stability of Inverted Perovskite Solar Cells Using Phenethyl Ammonium Iodide-Modified Interface of NiO_x and Perovskite Layers. ACS Applied Materials & Interfaces, 2020, 12, 771-779.	8.0	76
7	Solution-processed Sr-doped NiOx as hole transport layer for efficient and stable perovskite solar cells. Solar Energy, 2018, 174, 1133-1141.	6.1	75
8	High-performance perovskite solar cells by incorporating a ZnGa2O4:Eu3+ nanophosphor in the mesoporous TiO2 layer. Solar Energy Materials and Solar Cells, 2016, 149, 121-127.	6.2	69
9	Effective Improvement of the Photovoltaic Performance of Carbon-Based Perovskite Solar Cells by Additional Solvents. Nano-Micro Letters, 2016, 8, 347-357.	27.0	68
10	Efficient perovskite solar cells by combination use of Au nanoparticles and insulating metal oxide. Nanoscale, 2017, 9, 2852-2864.	5.6	59
11	Enhancing photovoltaic performance of perovskite solar cells with silica nanosphere antireflection coatings. Solar Energy, 2018, 169, 128-135.	6.1	51
12	Highly Efficient and Air Stable Inverted Polymer Solar Cells Using LiF-Modified ITO Cathode and MoO₃/AgAl Alloy Anode. ACS Applied Materials & Interfaces, 2016, 8, 3792-3799.	8.0	45
13	Large enhancements of NaYF4:Yb/Er/Gd nanorod upconversion emissions via coupling with localized surface plasmon of Au film. Nanotechnology, 2014, 25, 185401.	2.6	44
14	Efficient quasi-mesoscopic perovskite solar cells using Li-doped hierarchical TiO2 as scaffold of scattered distribution. Chemical Engineering Journal, 2017, 330, 947-955.	12.7	43
15	Enhanced Efficiency and stability of Perovskite Solar Cells using Porous Hierarchical TiO 2 Nanostructures of Scattered Distribution as Scaffold. Electrochimica Acta, 2017, 236, 351-358.	5.2	40
16	Highly bright Li(Gd,Y)F4:Yb,Er upconverting nanocrystals incorporated hole transport layer for efficient perovskite solar cells. Applied Surface Science, 2019, 485, 332-341.	6.1	31
17	Outstanding field emission properties of titanium dioxide /carbon nanotube composite cathodes on 3D nickel foam. Journal of Alloys and Compounds, 2017, 726, 675-679.	5.5	30
18	Outstanding field emission properties of wet-processed titanium dioxide coated carbon nanotube based field emission devices. Applied Physics Letters, 2015, 106, .	3.3	29

#	Article	IF	Citations
19	Enhanced efficiency and thermal stability of perovskite solar cells using poly(9-vinylcarbazole) modified perovskite/PCBM interface. Electrochimica Acta, 2019, 318, 384-391.	5.2	29
20	Enhancing photovoltaic performance of perovskite solar cells utilizing germanium nanoparticles. Solar Energy, 2019, 188, 839-848.	6.1	23
21	Crack-Assisted Field Emission Enhancement of Carbon Nanotube Films for Vacuum Electronics. ACS Applied Nano Materials, 2019, 2, 7803-7809.	5.0	22
22	Efficient and Stable Perovskite Solar Cells Using Bathocuproine Bilateral-Modified Perovskite Layers. ACS Applied Materials & Interfaces, 2021, 13, 24747-24755.	8.0	22
23	Improved Performance of Polymer Solar Cells by Thermal Evaporation of AgAl Alloy Nanostructures into the Hole-Transport Layer. ACS Applied Materials & Interfaces, 2016, 8, 26098-26104.	8.0	21
24	Greener corona discharge for enhanced wind generation with a simple dip-coated carbon nanotube decoration. Journal Physics D: Applied Physics, 2017, 50, 395304.	2.8	18
25	Plasmon-enhanced perovskite solar cells using ultra-thin LiF spacer isolating AgAl and Au composite nanoparticles from metal electrode. Organic Electronics, 2018, 59, 272-278.	2.6	15
26	Efficient and stable mesoporous perovskite solar cells using p-type poly (9-vinylcarbazole) modified the interface of perovskite/mesoporous TiO2 layers. Organic Electronics, 2020, 82, 105737.	2.6	15
27	Azadipyrromethene Dye-Assisted Defect Passivation for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 14388-14399.	8.0	15
28	Magnetic Tunnel Junction Based on MgO Barrier Prepared by Natural Oxidation and Direct Sputtering Deposition. Nano-Micro Letters, 2012, 4, 25-29.	27.0	13
29	Solution-synthesized SnO2 nanorod arrays for highly stable and efficient perovskite solar cells. Electrochimica Acta, 2018, 283, 1134-1145.	5.2	13
30	Synergetic Effect of Plasmonic Gold Nanorods and MgO for Perovskite Solar Cells. Nanomaterials, 2020, 10, 1830.	4.1	13
31	Efficient and ultraviolet durable inverted polymer solar cells using thermal stable GZO-AgTi-GZO multilayers as a transparent electrode. Organic Electronics, 2016, 39, 177-183.	2.6	12
32	Controlled growth of perovskite KMnF3 upconverting nanocrystals for near-infrared light-sensitive perovskite solar cells and photodetectors. Journal of Materials Science, 2021, 56, 14207-14221.	3.7	11
33	Boosted field emission properties and thickness effect of conductive polymers coated silicon carbide matrices for vacuum electronic devices. Vacuum, 2020, 180, 109594.	3.5	10
34	Facile Fabrication and High Field Emission Performance of 2-D Tiâ‚ƒCâ‚‚Tââ€“ MXene Nanosheets for Vacuum Electronic Devices. IEEE Transactions on Electron Devices, 2020, 67, 5138-5143.	3.0	10
35	Enhanced Efficiency and Stability of NiOx-Based Perovskite Solar Cells Using [6,6]-Phenyl-C₆₁-butyric Acid Methyl-Doped Poly(9-vinylcarbazole)-Modified Layer. ACS Applied Energy Materials, 2021, 4, 3812-3821.	5.1	10
36	Carrier transport assisted by dopants in doped poly(N-vinylcarbozole) light-emitting diodes. Journal Physics D: Applied Physics, 2004, 37, 1007-1011.	2.8	9

#	Article	IF	Citations
37	High performance perovskite solar cells using Cu9S5 supraparticles incorporated hole transport layers. Nanotechnology, 2019, 30, 445401.	2.6	9
38	Synergetic effect of organic metal compound modified SnO2 in high performance perovskite solar cells. Solar Energy, 2022, 234, 170-178.	6.1	8
39	Efficient formamidiniumâ€“methylammonium lead halide perovskite solar cells using Mg and Er co-modified TiO2 nanorods. Journal of Materials Science: Materials in Electronics, 2019, 30, 11043-11053.	2.2	5
40	Efficient and stable perovskite solar cells via organic surfactant interfacial passivation. Solar Energy, 2021, 227, 438-446.	6.1	2