

Yongguang Tu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,706
citations

25
h-index

51
g-index

57
ext. papers

3,269
ext. citations

9.3
avg, IF

5.04
L-index

#	Paper	IF	Citations
52	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018 , 360, 1442-1446	33.3	915
51	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. <i>Nano Energy</i> , 2018 , 49, 411-418	17.1	128
50	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1805085	24	101
49	Flower-like nickel cobalt sulfide microspheres modified with nickel sulfide as Pt-free counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 304, 266-272	8.9	88
48	Mixed-cation perovskite solar cells in space. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	85
47	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021 , 33, e2006435	24	83
46	A high performance cobalt sulfide counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 159, 166-173	6.7	82
45	TiO ₂ quantum dots as superb compact block layers for high-performance CH ₃ NH ₃ PbI ₃ perovskite solar cells with an efficiency of 16.97. <i>Nanoscale</i> , 2015 , 7, 20539-46	7.7	76
44	High performance sponge-like cobalt sulfide/reduced graphene oxide hybrid counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 293, 570-576	8.9	66
43	Superior Carrier Lifetimes Exceeding 6 μ s in Polycrystalline Halide Perovskites. <i>Advanced Materials</i> , 2020 , 32, e2002585	24	64
42	Facile hydrothermal synthesis of NiTe and its application as positive electrode material for asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 384-390	5.7	62
41	Solvent engineering for high-quality perovskite solar cell with an efficiency approaching 20%. <i>Journal of Power Sources</i> , 2017 , 365, 1-6	8.9	55
40	Flowerlike molybdenum sulfide/multi-walled carbon nanotube hybrid as Pt-free counter electrode used in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 173, 252-259	6.7	55
39	Perovskite Solar Cells for Space Applications: Progress and Challenges. <i>Advanced Materials</i> , 2021 , 33, e2006545	24	53
38	Modulated CH ₃ NH ₃ PbI ₃ Br film for efficient perovskite solar cells exceeding 18. <i>Scientific Reports</i> , 2017 , 7, 44603	4.9	52
37	Cobalt selenide nanorods used as a high efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 168, 69-75	6.7	51
36	Solvent engineering for forming stonehenge-like PbI ₂ nano-structures towards efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4376-4383	13	49

35	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. <i>Nano Energy</i> , 2020 , 67, 104189	17.1	49
34	Transparent nickel selenide used as counter electrode in high efficient dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 29-33	5.7	42
33	Improving the photovoltaic performance of dye-sensitized solar cell by graphene/titania photoanode. <i>Electrochimica Acta</i> , 2015 , 156, 261-266	6.7	39
32	Improved performance of a CoTe//AC asymmetric supercapacitor using a redox additive aqueous electrolyte.. <i>RSC Advances</i> , 2018 , 8, 7997-8006	3.7	38
31	A transparent cobalt sulfide/reduced graphene oxide nanostructure counter electrode for high efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016 , 187, 210-217	6.7	31
30	A gradient engineered hole-transporting material for monolithic series-type large-area perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21161-21168	13	31
29	Mesoporous Zn ₂ SnO ₄ as effective electron transport materials for high-performance perovskite solar cells. <i>Electrochimica Acta</i> , 2017 , 251, 307-315	6.7	28
28	A dual function of high efficiency quasi-solid-state flexible dye-sensitized solar cell based on conductive polymer integrated into poly (acrylic acid-co-carbon nanotubes) gel electrolyte. <i>Solar Energy</i> , 2017 , 148, 63-69	6.8	25
27	An in situ polymerized PEDOT/Fe ₃ O ₄ composite as a Pt-free counter electrode for highly efficient dye sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 1637-1643	3.7	24
26	Pt ₁₀ Co and Pt ₁₀ Ni hollow nanospheres supported with PEDOT:PSS used as high performance counter electrodes in dye-sensitized solar cells. <i>Solar Energy</i> , 2015 , 122, 727-736	6.8	24
25	Multiple-Defect Management for Efficient Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 2404-2412	10.2	22
24	Controlled growth of CH ₃ NH ₃ PbI ₃ films towards efficient perovskite solar cells by varied-stoichiometric intermediate adduct. <i>Applied Surface Science</i> , 2017 , 403, 572-577	6.7	21
23	CdS/CdSe co-sensitized SnO ₂ photoelectrodes for quantum dots sensitized solar cells. <i>Optics Communications</i> , 2015 , 346, 64-68	2	21
22	Hybrid perovskite by mixing formamidinium and methylammonium lead iodides for high-performance planar solar cells with efficiency of 19.41%. <i>Solar Energy</i> , 2017 , 157, 853-859	6.8	20
21	Hydrothermal synthesis of CoMoO ₄ /Co ₉ S ₈ hybrid nanotubes based on counter electrodes for highly efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 83029-83035	3.7	18
20	TiO ₂ single crystalline nanorod compact layer for high-performance CH ₃ NH ₃ PbI ₃ perovskite solar cells with an efficiency exceeding 17%. <i>Journal of Power Sources</i> , 2016 , 332, 366-371	8.9	18
19	Effect of ammonia on electrodeposition of cobalt sulfide and nickel sulfide counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 180, 574-580	6.7	17
18	Tin oxide nanosheets as efficient electron transporting materials for perovskite solar cells. <i>Solar Energy</i> , 2016 , 137, 579-584	6.8	17

17	High-Performance Molybdenum Diselenide Electrodes Used in Dye-Sensitized Solar Cells and Supercapacitors. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1196-1202	3.7	16
16	Reducing hysteresis and enhancing performance of perovskite solar cells using acetylacetonate modified TiO ₂ nanoparticles as electron transport layers. <i>Journal of Power Sources</i> , 2017 , 365, 83-91	8.9	16
15	Improved performance of quantum dots sensitized solar cells using ZnO hierarchical spheres as photoanodes. <i>Ceramics International</i> , 2015 , 41, 14501-14507	5.1	15
14	Diindolotriazatruxene-Based Hole-Transporting Materials for High-Efficiency Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45717-45725	9.5	15
13	Modification of TiO Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti Complex. <i>IScience</i> , 2019 , 20, 195-204	6.1	14
12	Petal-like cobalt selenide nanosheets used as counter electrode in high efficient dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2501-2507	2.1	14
11	Green Solution-Bathing Process for Efficient Large-Area Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24905-24912	9.5	12
10	High-performance and transparent counter electrodes based on polypyrrole and ferrous sulfide nanoparticles for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5680-5685	2.1	7
9	Controllable agglomeration of titanium dioxide particles by one-step solvothermal reaction toward efficient dye-sensitized solar cell. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 1083-1088	5.7	7
8	Bifacial illuminated PbS quantum dot-sensitized solar cells with translucent CuS counter electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3016-3022	2.1	6
7	Efficient and Stable All-Inorganic CsPbI ₃ Perovskite Solar Cells Enabled by Dynamic Vacuum-Assisted Low-Temperature Engineering. <i>Solar Rrl</i> , 2022 , 6, 2100839	7.1	6
6	Zn-O Dual-Spin Surface State Formation by Modification of ZnO Nanoparticles with Diboron Compounds. <i>Langmuir</i> , 2019 , 35, 14173-14179	4	5
5	Fabrication a thin nickel oxide layer on photoanodes for control of charge recombination in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1523-1531	2.6	4
4	Minimizing voltage deficit in Methylammonium-Free perovskite solar cells via surface reconstruction. <i>Chemical Engineering Journal</i> , 2022 , 444, 136622	14.7	4
3	Defect suppression and energy level alignment in formamidinium-based perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 67, 65-65	12	3
2	Optimizing Vertical Crystallization for Efficient Perovskite Solar Cells by Buried Composite Layers. <i>Solar Rrl</i> , 2021 , 5, 2100457	7.1	3
1	Addition of Lithium Iodide into Precursor Solution for Enhancing the Photovoltaic Performance of Perovskite Solar Cells. <i>Energy Technology</i> , 2017 , 5, 1814-1819	3.5	2