Yongguang Tu

List of Publications by Year in Descending Order

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	Efficient and Stable All-Inorganic CsPbIBr 2 Perovskite Solar Cells Enabled by Dynamic Vacuum-Assisted Low-Temperature Engineering. *Solar Rrl*, **2022**, 6, 2100839	7.1	6
51	Minimizing voltage deficit in Methylammonium-Free perovskite solar cells via surface reconstruction. *Chemical Engineering Journal*, **2022**, 444, 136622	14.7	4
50	Defect suppression and energy level alignment in formamidinium-based perovskite solar cells. *Journal of Energy Chemistry*, **2021**, 67, 65-65	12	3
49	Perovskite Solar Cells for Space Applications: Progress and Challenges. *Advanced Materials*, **2021**, 33, e2006545	24	53
48	Multiple-Defect Management for Efficient Perovskite Photovoltaics. *ACS Energy Letters*, **2021**, 6, 2404-2412	17.1	22
47	Buried Interfaces in Halide Perovskite Photovoltaics. *Advanced Materials*, **2021**, 33, e2006435	24	83
46	Optimizing Vertical Crystallization for Efficient Perovskite Solar Cells by Buried Composite Layers. *Solar Rrl*, **2021**, 5, 2100457	7.1	3
45	Green Solution-Bathing Process for Efficient Large-Area Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 24905-24912	9.5	12
44	Superior Carrier Lifetimes Exceeding 6 μs in Polycrystalline Halide Perovskites. *Advanced Materials*, **2020**, 32, e2002585	24	64
43	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. *Nano Energy*, **2020**, 67, 104189	17.1	49
42	Modification of TiO Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti Complex. *IScience*, **2019**, 20, 195-204	6.1	14
41	Zn-O Dual-Spin Surface State Formation by Modification of ZnO Nanoparticles with Diboron Compounds. *Langmuir*, **2019**, 35, 14173-14179	4	5
40	Diindolotriazatruxene-Based Hole-Transporting Materials for High-Efficiency Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 45717-45725	9.5	15
39	Mixed-cation perovskite solar cells in space. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	85
38	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. *Nano Energy*, **2018**, 49, 411-418	17.1	128
37	Improved performance of a CoTe//AC asymmetric supercapacitor using a redox additive aqueous electrolyte.. *RSC Advances*, **2018**, 8, 7997-8006	3.7	38
36	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. *Advanced Materials*, **2018**, 30, e1805085	24	101

35	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. *Science*, **2018**, 360, 1442-1446	33.3	915
34	Solvent engineering for forming stonehenge-like PbI2 nano-structures towards efficient perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 4376-4383	13	49
33	Controlled growth of CH3NH3PbI3 films towards efficient perovskite solar cells by varied-stoichiometric intermediate adduct. *Applied Surface Science*, **2017**, 403, 572-577	6.7	21
32	Fabrication a thin nickel oxide layer on photoanodes for control of charge recombination in dye-sensitized solar cells. *Journal of Solid State Electrochemistry*, **2017**, 21, 1523-1531	2.6	4
31	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. *Solar Energy*, **2017**, 148, 63-69	6.8	25
30	Modulated CHNHPbIBr film for efficient perovskite solar cells exceeding 18. *Scientific Reports*, **2017**, 7, 44603	4.9	52
29	Solvent engineering for high-quality perovskite solar cell with an efficiency approaching 20%. *Journal of Power Sources*, **2017**, 365, 1-6	8.9	55
28	Mesoporous Zn2SnO4 as effective electron transport materials for high-performance perovskite solar cells. *Electrochimica Acta*, **2017**, 251, 307-315	6.7	28
27	Reducing hysteresis and enhancing performance of perovskite solar cells using acetylacetonate modified TiO 2 nanoparticles as electron transport layers. *Journal of Power Sources*, **2017**, 365, 83-91	8.9	16
26	Hybrid perovskite by mixing formamidinium and methylammonium lead iodides for high-performance planar solar cells with efficiency of 19.41%. *Solar Energy*, **2017**, 157, 853-859	6.8	20
25	A gradient engineered hole-transporting material for monolithic series-type large-area perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 21161-21168	13	31
24	Addition of Lithium Iodide into Precursor Solution for Enhancing the Photovoltaic Performance of Perovskite Solar Cells. *Energy Technology*, **2017**, 5, 1814-1819	3.5	2
23	Controllable agglomeration of titanium dioxide particles by one-step solvothermal reaction toward efficient dye-sensitized solar cell. *Journal of Alloys and Compounds*, **2017**, 694, 1083-1088	5.7	7
22	High-Performance Molybdenum Diselenide Electrodes Used in Dye-Sensitized Solar Cells and Supercapacitors. *IEEE Journal of Photovoltaics*, **2016**, 6, 1196-1202	3.7	16
21	Facile hydrothermal synthesis of NiTe and its application as positive electrode material for asymmetric supercapacitor. *Journal of Alloys and Compounds*, **2016**, 685, 384-390	5.7	62
20	Flower-like nickel cobalt sulfide microspheres modified with nickel sulfide as Pt-free counter electrode for dye-sensitized solar cells. *Journal of Power Sources*, **2016**, 304, 266-272	8.9	88
19	High-performance and transparent counter electrodes based on polypyrrole and ferrous sulfide nanoparticles for dye-sensitized solar cells. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 5680-5685	2.1	7
18	A transparent cobalt sulfide/reduced graphene oxide nanostructure counter electrode for high efficient dye-sensitized solar cells. *Electrochimica Acta*, **2016**, 187, 210-217	6.7	31

17	An in situ polymerized PEDOT/Fe3O4 composite as a Pt-free counter electrode for highly efficient dye sensitized solar cells. *RSC Advances*, **2016**, 6, 1637-1643	3.7	24
16	TiO2 single crystalline nanorod compact layer for high-performance CH3NH3PbI3 perovskite solar cells with an efficiency exceeding 17%. *Journal of Power Sources*, **2016**, 332, 366-371	8.9	18
15	Tin oxide nanosheets as efficient electron transporting materials for perovskite solar cells. *Solar Energy*, **2016**, 137, 579-584	6.8	17
14	Improving the photovoltaic performance of dye-sensitized solar cell by graphene/titania photoanode. *Electrochimica Acta*, **2015**, 156, 261-266	6.7	39
13	CdS/CdSe co-sensitized SnO2 photoelectrodes for quantum dots sensitized solar cells. *Optics Communications*, **2015**, 346, 64-68	2	21
12	Improved performance of quantum dots sensitized solar cells using ZnO hierarchical spheres as photoanodes. *Ceramics International*, **2015**, 41, 14501-14507	5.1	15
11	High performance sponge-like cobalt sulfide/reduced graphene oxide hybrid counter electrode for dye-sensitized solar cells. *Journal of Power Sources*, **2015**, 293, 570-576	8.9	66
10	Transparent nickel selenide used as counter electrode in high efficient dye-sensitized solar cells. *Journal of Alloys and Compounds*, **2015**, 640, 29-33	5.7	42
9	Cobalt selenide nanorods used as a high efficient counter electrode for dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 168, 69-75	6.7	51
8	Hydrothermal synthesis of CoMoO4/Co9S8 hybrid nanotubes based on counter electrodes for highly efficient dye-sensitized solar cells. *RSC Advances*, **2015**, 5, 83029-83035	3.7	18
7	Effect of ammonia on electrodeposition of cobalt sulfide and nickel sulfide counter electrodes for dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 180, 574-580	6.7	17
6	Flowerlike molybdenum sulfide/multi-walled carbon nanotube hybrid as Pt-free counter electrode used in dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 173, 252-259	6.7	55
5	Petal-like cobalt selenide nanosheets used as counter electrode in high efficient dye-sensitized solar cells. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 2501-2507	2.1	14
4	Pt□o and Pt□i hollow nanospheres supported with PEDOT:PSS used as high performance counter electrodes in dye-sensitized solar cells. *Solar Energy*, **2015**, 122, 727-736	6.8	24
3	TiO2 quantum dots as superb compact block layers for high-performance CH3NH3PbI3 perovskite solar cells with an efficiency of 16.97. *Nanoscale*, **2015**, 7, 20539-46	7.7	76
2	A high performance cobalt sulfide counter electrode for dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 159, 166-173	6.7	82
1	Bifacial illuminated PbS quantum dot-sensitized solar cells with translucent CuS counter electrodes. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 3016-3022	2.1	6