

# Songwang Yang

## List of Publications by Citations

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57  
papers

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57  
ext. papers

2,163  
ext. citations

6.6  
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4.97  
L-index

#	Paper	IF	Citations
57	Controlled synthesis and self-assembly of CeO <sub>2</sub> nanocubes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9330-1	16.4	376
56	Facile Synthesis and Shape Evolution of Single-Crystal Cuprous Oxide. <i>Advanced Materials</i> , <b>2009</b> , 21, 2068-2071	12.00	200
55	Forest-like TiO <sub>2</sub> hierarchical structures for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6824		110
54	Template-free synthesis of hierarchical TiO <sub>2</sub> structures and their application in dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2148-53	9.5	89
53	New Method to Prepare Nitrogen-Doped Titanium Dioxide and Its Photocatalytic Activities Irradiated by Visible Light. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1803-1805	3.8	88
52	Ultrasoother Perovskite Film via Mixed Anti-Solvent Strategy with Improved Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3667-3676	9.5	86
51	Achieving high-performance planar perovskite solar cells with co-sputtered Co-doping NiO <sub>x</sub> hole transport layers by efficient extraction and enhanced mobility. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10839-10846	7.1	73
50	A general precipitation strategy for large-scale synthesis of molybdate nanostructures. <i>Chemical Communications</i> , <b>2008</b> , 5601-3	5.8	71
49	Growth of Various TiO <sub>2</sub> Nanostructures for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1819-1823	3.8	67
48	Characterization of Perovskite Obtained from Two-Step Deposition on Mesoporous Titania. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25770-6	9.5	55
47	Preparation of Titanium Dioxide Nanocrystallite with High Photocatalytic Activities. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 968-970	3.8	55
46	Fast and Controllable Crystallization of Perovskite Films by Microwave Irradiation Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7854-61	9.5	49
45	High Efficiency Semiconductor-Liquid Junction Solar Cells based on Cu/Cu <sub>2</sub> O. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3907-3913	15.6	44
44	Pore Size Dependent Hysteresis Elimination in Perovskite Solar Cells Based on Highly Porous TiO <sub>2</sub> Films with Widely Tunable Pores of 15-4 nm. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7134-7144	9.6	41
43	Achieving High Current Density of Perovskite Solar Cells by Modulating the Dominated Facets of Room-Temperature DC Magnetron Sputtered TiO Electron Extraction Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2016-2022	9.5	35
42	A facile way to prepare nanoporous PbI <sub>2</sub> films and their application in fast conversion to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 1611-1617	3.7	34
41	An Effective TiO <sub>2</sub> Blocking Layer for Perovskite Solar Cells with Enhanced Performance. <i>Chemistry Letters</i> , <b>2015</b> , 44, 624-626	1.7	33

40	Fabrication and shape-evolution of nanostructured TiO <sub>2</sub> via a solvothermal process based on benzene/water interfaces. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 99, 437-440	4.4	27
39	Facile and Surfactant-Free Route to Nanocrystalline Mesoporous Tin Oxide. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 1742-1744	3.8	27
38	Study on the correlations between the structure and photoelectric properties of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite light-harvesting material. <i>Journal of Power Sources</i> , <b>2015</b> , 285, 349-353	8.9	25
37	Minimizing the energy loss of perovskite solar cells with Cu <sup>+</sup> doped NiOx processed at room temperature. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 182, 128-135	6.4	25
36	Fabrication of well-defined water-soluble core/shell heteronanostructures through the SiO <sub>2</sub> spacer. <i>Chemical Communications</i> , <b>2007</b> , 1272-4	5.8	23
35	Nucleation mediated interfacial precipitation for architectural perovskite films with enhanced photovoltaic performance. <i>Nanoscale</i> , <b>2017</b> , 9, 2569-2578	7.7	22
34	CsPbI <sub>3</sub> Perovskite Solar Cells Based on Carbon Black-Containing Counter Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34882-34889	9.5	22
33	Low-temperature Synthesis of Crystalline TiO <sub>2</sub> Nanorods: Mass Production Assisted by Surfactant. <i>Chemistry Letters</i> , <b>2005</b> , 34, 964-965	1.7	20
32	Fabrication and Characterization of Nanostructurally Flowerlike Aggregates of TiO <sub>2</sub> via a Surfactant-free Solution Route: Effect of Various Reaction Media. <i>Chemistry Letters</i> , <b>2005</b> , 34, 1044-1045	1.7	19
31	Enhanced interfacial electron transfer of inverted perovskite solar cells by introduction of CoSe into the electron-transporting-layer. <i>Journal of Power Sources</i> , <b>2017</b> , 353, 123-130	8.9	18
30	Perovskite films with a sacrificial cation for solar cells with enhanced stability based on carbon electrodes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 811-819	5.7	18
29	Efficient Bulk Heterojunction CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -TiO Solar Cells with TiO Nanoparticles at Grain Boundaries of Perovskite by Multi-Cycle-Coating Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16202-16214	9.5	17
28	Photocatalytic activity of nitrogen doped rutile TiO <sub>2</sub> nanoparticles under visible light irradiation. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 1872-1876	5.1	17
27	Controllable deposition of TiO <sub>2</sub> nanopillars at room temperature for high performance perovskite solar cells with suppressed hysteresis. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 168, 172-182	6.4	16
26	Electrophoretic deposition of TiO <sub>2</sub> nanorods for low-temperature dye-sensitized solar cells. <i>RSC Advances</i> , <b>2014</b> , 4, 7805	3.7	16
25	Synthesis and magnetic properties of Co-Sn-O nanorings. <i>Chemical Communications</i> , <b>2007</b> , 4372-4	5.8	16
24	Fast Fabrication of a Stable Perovskite Solar Cell with an Ultrathin Effective Novel Inorganic Hole Transport Layer. <i>Langmuir</i> , <b>2017</b> , 33, 3624-3634	4	15
23	Growth Regime-Controlled synthesis of CdS/Bi <sub>2</sub> S <sub>3</sub> and Bi <sub>2</sub> S <sub>3</sub> nanocrystals during the dissolution-recrystallization processes. <i>CrystEngComm</i> , <b>2010</b> , 12, 3413	3.3	14

22	Long-term stable perovskite solar cells with room temperature processed metal oxide carrier transporters. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21085-21095	13	13
21	Cyclic Utilization of Lead in Carbon-Based Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7558-7564	8.3	13
20	Influence of TiO <sub>2</sub> Blocking Layer Morphology on Planar Heterojunction Perovskite Solar Cells. <i>Chemistry Letters</i> , <b>2016</b> , 45, 592-594	1.7	13
19	Room-temperature processible TiO <sub>2</sub> electron selective layers with controllable crystallinity for high efficiency perovskite photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 163, 15-22	6.4	12
18	Enhanced electrical property of Ni-doped CoO hole transport layer for inverted perovskite solar cells. <i>Nanotechnology</i> , <b>2017</b> , 28, 20LT02	3.4	11
17	One step spray-coated TiO electron-transport layers for decent perovskite solar cells on large and flexible substrates. <i>Nanotechnology</i> , <b>2017</b> , 28, 01LT02	3.4	10
16	Influence of hole transport material/metal contact interface on perovskite solar cells. <i>Nanotechnology</i> , <b>2018</b> , 29, 255201	3.4	10
15	Effect of Br content on phase stability and performance of HN=CHNHPb(I Br) perovskite thin films. <i>Nanotechnology</i> , <b>2019</b> , 30, 165402	3.4	8
14	A Facile and One-pot Synthesis of High Aspect Ratio Anatase Nanorods Based on Aqueous Solution. <i>Chemistry Letters</i> , <b>2005</b> , 34, 972-973	1.7	8
13	A UV-stable Perovskite Solar Cell Based on Mo-doped TiO <sub>2</sub> Interlayer. <i>Chemistry Letters</i> , <b>2019</b> , 48, 700-703	3.7	7
12	Novel Perovskite Solar Cell Architecture Featuring Efficient Light Capture and Ultrafast Carrier Extraction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23624-23634	9.5	7
11	Mesostructured perovskite solar cells based on highly ordered TiO network scaffold via anodization of Ti thin film. <i>Nanotechnology</i> , <b>2017</b> , 28, 055403	3.4	6
10	CNTs/Ta <sub>3</sub> N <sub>5</sub> Nanocomposite with Enhanced Photocatalytic Activity Under Visible Light Irradiation. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1309-1311	3.8	6
9	Morphology and Defect Control of Metal Halide Perovskite Films for High-Performance Optoelectronics. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5958-5972	9.6	5
8	Hierarchically structured nanocrystalline photoanode: Self-assembled bi-functional TiO <sub>2</sub> towards enhanced photovoltaic performance. <i>Nano Energy</i> , <b>2014</b> , 8, 247-254	17.1	4
7	Vacuum-Assisted Drying Process for Screen-Printable Carbon Electrodes of Perovskite Solar Cells with Enhanced Performance Based on Cuprous Thiocyanate as a Hole Transporting Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22684-22693	9.5	4
6	Silicon Quantum Dot Luminescent Solar Concentrators and Downshifters with Antireflection Coatings for Enhancing Perovskite Solar Cell Performance. <i>ACS Photonics</i> , <b>2021</b> , 8, 2392-2399	6.3	4
5	Synthesis and Characterization of Porous Single-Crystalline Titanium Dioxide Nanorods. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 720-723	3.8	3

4	Dense Core/Mesoporous Outer Layer Scattering Beads for Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1896-1898	1.7	2
3	Flexible Perovskite Solar Cells with Enhanced Performance Based on a Void-Free Imbedded Interface via a Thin Layer of Mesoporous TiO <sub>2</sub> . <i>ACS Applied Energy Materials</i> ,	6.1	1
2	Novel Post-Treatment Process by La <sup>3+</sup> Modification to TiO <sub>2</sub> Photoanode with Enhanced Performance for DSSCs. <i>Advanced Materials Research</i> , <b>2013</b> , 860-863, 219-222	0.5	
1	Mixed Chalcogenide-Halides for Stable, Lead-Free and Defect-Tolerant Photovoltaics: Computational Screening and Experimental Validation of CuBiSCL <sub>2</sub> with Ideal Band Gap. <i>Advanced Functional Materials</i> , 2112682	15.6	