

# Shuang Yang

## List of Publications by Citations

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110  
papers

5,752  
citations

36  
h-index

75  
g-index

118  
ext. papers

7,113  
ext. citations

10.8  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
110	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3842-3867	58.5	724
109	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. <i>Science</i> , <b>2019</b> , 365, 473-478	33.3	460
108	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	369
107	Tailoring Passivation Molecular Structures for Extremely Small Open-Circuit Voltage Loss in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5781-5787	16.4	368
106	Enhanced Thermal Stability in Perovskite Solar Cells by Assembling 2D/3D Stacking Structures. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 654-658	6.4	313
105	Defect-Rich Ultrathin Cobalt-Iron Layered Double Hydroxide for Electrochemical Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34474-34481	9.5	240
104	Molybdenum carbide stabilized on graphene with high electrocatalytic activity for hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 13135-7	5.8	194
103	Ultrathin Two-Dimensional Organic-Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4252-4255	16.4	165
102	Facet-dependent catalytic activity of platinum nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1836	4.9	133
101	Formation Mechanism of Freestanding CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Functional Crystals: In Situ Transformation vs Dissolution/Crystallization. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6705-6710	9.6	130
100	Ni <sub>2</sub> P(O)/Fe <sub>2</sub> P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2257-2263	20.1	116
99	Single Crystal Perovskite Solar Cells: Development and Perspectives. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1905021	15.6	100
98	Thermal-Induced Volmer-Weber Growth Behavior for Planar Heterojunction Perovskites Solar Cells. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5116-5121	9.6	92
97	Electrochemical etching of $\beta$ -cobalt hydroxide for improvement of oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9578-9584	13	91
96	Mo activated multimetal oxygen-evolving catalysts. <i>Chemical Science</i> , <b>2017</b> , 8, 3484-3488	9.4	88
95	Active sites on hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15258	13	81
94	Mn <sub>3</sub> O <sub>4</sub> nano-octahedrons on Ni foam as an efficient three-dimensional oxygen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14101-14104	13	80

93	Hydrogen-treated commercial WO <sub>3</sub> as an efficient electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2013</b> , 49, 5945-7	5.8	78
92	Low-temperature processed In <sub>2</sub> S <sub>3</sub> electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 36, 102-109	17.1	74
91	Titania single crystals with a curved surface. <i>Nature Communications</i> , <b>2014</b> , 5, 5355	17.4	73
90	A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804217	24	70
89	Engineered Hematite Mesoporous Single Crystals Drive Drastic Enhancement in Solar Water Splitting. <i>Nano Letters</i> , <b>2016</b> , 16, 427-33	11.5	65
88	Highly electrocatalytic activity of RuO <sub>4</sub> nanocrystals for triiodide reduction in dye-sensitized solar cells. <i>Small</i> , <b>2014</b> , 10, 484-92, 483	11	65
87	Surface Electronic Modification of Perovskite Thin Film with Water-Resistant Electron Delocalized Molecules for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703143	21.8	62
86	Size-controlled synthesis, magnetic property, and photocatalytic property of uniform Fe <sub>2</sub> O <sub>3</sub> nanoparticles via a facile additive-free hydrothermal route. <i>CrystEngComm</i> , <b>2012</b> , 14, 7915	3.3	62
85	Surface chelation of cesium halide perovskite by dithiocarbamate for efficient and stable solar cells. <i>Nature Communications</i> , <b>2020</b> , 11, 4237	17.4	62
84	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900185	21.8	61
83	A Band-Edge Potential Gradient Heterostructure to Enhance Electron Extraction Efficiency of the Electron Transport Layer in High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700878	15.6	58
82	Multifunctional Inverse Opal-Like TiO <sub>2</sub> Electron Transport Layer for Efficient Hybrid Perovskite Solar Cells. <i>Advanced Science</i> , <b>2015</b> , 2, 1500105	13.6	54
81	Oriented collagen fiber membranes formed through counter-rotating extrusion and their application in tendon regeneration. <i>Biomaterials</i> , <b>2019</b> , 207, 61-75	15.6	51
80	Organohalide Lead Perovskites: More Stable than Glass under Gamma-Ray Radiation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805547	24	51
79	Critical roles of co-catalysts for molecular hydrogen formation in photocatalysis. <i>Journal of Catalysis</i> , <b>2015</b> , 330, 120-128	7.3	48
78	Surface-functionalized perovskite films for stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 910-913	13	44
77	A Solution-Processed Transparent NiO Hole-Extraction Layer for High-Performance Inverted Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2845-2849	4.8	40
76	Sonodynamic therapy induces the interplay between apoptosis and autophagy in K562 cells through ROS. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2015</b> , 60, 82-92	5.6	37

75	A low-temperature processed flower-like TiO <sub>2</sub> array as an electron transport layer for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6521-6526	13	36
74	A sulfur-assisted strategy to decorate MWCNTs with highly dispersed Pt nanoparticles for counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1982-1986	13	35
73	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900971	8.1	33
72	Ultrathin SnO <sub>2</sub> scaffolds for TiO <sub>2</sub> -based heterojunction photoanodes in dye-sensitized solar cells: oriented charge transport and improved light scattering. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9366-9370	4.8	29
71	Designing Large-Area Single-Crystal Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1797-1803	20.1	28
70	lncRNA PCFL promotes cardiac fibrosis via miR-378/GRB2 pathway following myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2019</b> , 133, 188-198	5.8	27
69	A novel strategy to prepare a Pt/SnO <sub>2</sub> nanocomposite as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17253-17257	13	27
68	Turning indium oxide into a superior electrocatalyst: deterministic heteroatoms. <i>Scientific Reports</i> , <b>2013</b> , 3, 3109	4.9	27
67	Benign ferroelastic twin boundaries in halide perovskites for charge carrier transport and recombination. <i>Nature Communications</i> , <b>2020</b> , 11, 2215	17.4	26
66	A free radical assisted strategy for preparing ultra-small Pt decorated CNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 614-619	13	25
65	Chemical constituents of <i>Lobelia chinensis</i> . <i>Phytotherapy Research</i> , <b>2014</b> , 93, 168-74	3.2	24
64	Deepening the Valance Band Edges of NiO <sub>x</sub> Contacts by Alkaline Earth Metal Doping for Efficient Perovskite Photovoltaics with High Open-Circuit Voltage. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900192	7.1	23
63	Irgm1 promotes M1 but not M2 macrophage polarization in atherosclerosis pathogenesis and development. <i>Atherosclerosis</i> , <b>2016</b> , 251, 282-290	3.1	23
62	MgO@TiO <sub>2</sub> catalysts templated by a PDMS/PEO comb-like copolymer for transesterification of vegetable oil to biodiesel. <i>Fuel</i> , <b>2016</b> , 165, 215-223	7.1	23
61	Structure disorder of graphitic carbon nitride induced by liquid-assisted grinding for enhanced photocatalytic conversion. <i>RSC Advances</i> , <b>2014</b> , 4, 10676-10679	3.7	23
60	Revealing defective nanostructured surfaces and their impact on the intrinsic stability of hybrid perovskites. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1563-1572	35.4	22
59	Crystal shape engineering of anatase TiO <sub>2</sub> and its biomedical applications. <i>CrystEngComm</i> , <b>2015</b> , 17, 6617-6631	3.3	21
58	Activation of microbubbles by low-level therapeutic ultrasound enhances the antitumor effects of doxorubicin. <i>European Radiology</i> , <b>2014</b> , 24, 2739-53	8	21

57	Direct insight into crystallization and stability of hybrid perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> via solvothermal synthesis. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15854-15857	13	20
56	Antiswelling and Durable Adhesion Biodegradable Hydrogels for Tissue Repairs and Strain Sensors. <i>Langmuir</i> , <b>2020</b> , 36, 10448-10459	4	20
55	Self-Powered FA <sub>0.55</sub> MA <sub>0.45</sub> PbI <sub>3</sub> Single-Crystal Perovskite X-Ray Detectors with High Sensitivity. <i>Advanced Functional Materials</i> , 2109149	15.6	19
54	Water assisted formation of highly oriented CsPbI <sub>2</sub> Br perovskite films with the solar cell efficiency exceeding 16%. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17670-17674	13	19
53	NiO hole transport materials: gap state assisted hole extraction with superior electrical conductivity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20905-20910	13	17
52	In situ growth of mirror-like platinum as highly-efficient counter electrode with light harvesting function for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1641-1646	13	17
51	Highly efficient overlayer derived from peroxotitanium for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1374-1379	13	17
50	Impurity-Free Synthesis of Cube-Like Single-Crystal Anatase TiO <sub>2</sub> for High Performance Dye-Sensitized Solar Cell. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 4098-4102	3.9	17
49	Epitaxial halide perovskite-based materials for photoelectric energy conversion. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 127-157	35.4	17
48	Ultrathin Two-Dimensional Organic-Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4316-4319	3.6	15
47	Formation of high-quality perovskite thin film for planar heterojunction solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 69502-69508	3.7	15
46	Chemical Vapor Deposition of FeOCl Nanosheet Arrays and Their Conversion to Porous Fe <sub>2</sub> O <sub>3</sub> Photoanodes for Photoelectrochemical Water Splitting. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 18024-18028	4.8	15
45	Stoichiometric Dissolution of Defective CsPbI <sub>2</sub> Br Surfaces for Inorganic Solar Cells with 17.5% Efficiency. <i>Advanced Energy Materials</i> , 2103933	21.8	15
44	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26384-26390	9.5	14
43	Modulating MAPbI <sub>3</sub> perovskite solar cells by amide molecules: Crystallographic regulation and surface passivation. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 56, 179-185	12	13
42	Zn(II)-doped Fe <sub>2</sub> O <sub>3</sub> single-crystalline nanoplates with high phase-transition temperature, superparamagnetic property and good photocatalytic property. <i>RSC Advances</i> , <b>2013</b> , 3, 21994	3.7	12
41	Hierarchical structure engineering of brookite TiO <sub>2</sub> crystals for enhanced photocatalytic and external antitumor property. <i>Science Bulletin</i> , <b>2016</b> , 61, 1818-1825	10.6	12
40	Key role of collagen fibers orientation in casing-meat adhesion. <i>Food Research International</i> , <b>2016</b> , 89, 439-447	7	12

39	Synthesis and bioevaluation of diarylpyrazoles as antiproliferative agents. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 171, 1-10	6.8	12
38	Chiral separation of two diastereomeric pairs of enantiomers of novel alkaloid-lignan hybrids from <i>Lobelia chinensis</i> and determination of the tentative absolute configuration. <i>Journal of Chromatography A</i> , <b>2013</b> , 1311, 134-9	4.5	11
37	Efficacy of combined therapy with paclitaxel and low-level ultrasound in human chronic myelogenous leukemia cell line K562. <i>Journal of Drug Targeting</i> , <b>2013</b> , 21, 874-84	5.4	10
36	Kang Le Xin Reduces Blood Pressure Through Inducing Endothelial-Dependent Vasodilation by Activating the AMPK-eNOS Pathway. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 1548	5.6	9
35	Anatase TiO <sub>2</sub> with nanopores for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 23038-43	3.6	9
34	Diammonium-Cesium Lead Halide Perovskite with Phase-Segregated Interpenetrating Morphology for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 747-754	6.4	9
33	Antifouling and pH-Responsive Poly(Carboxybetaine)-Based Nanoparticles for Tumor Cell Targeting. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 770	5	9
32	Mediating the Local Oxygen-Bridge Interactions of Oxysalt/Perovskite Interface for Defect Passivation of Perovskite Photovoltaics. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 177	19.5	9
31	Precisely controlled heterogeneous nucleation sites for TiO <sub>2</sub> crystal growth. <i>CrystEngComm</i> , <b>2014</b> , 16, 7502	3.3	8
30	Controlled Oriented Attachment of Bipyramidal-Shaped Anatase TiO and Their Enhanced Performance in Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , <b>2015</b> , 80, 805-809	2.8	7
29	Kanglexin accelerates diabetic wound healing by promoting angiogenesis via FGFR1/ERK signaling. <i>Biomedicine and Pharmacotherapy</i> , <b>2020</b> , 132, 110933	7.5	7
28	Thermally Induced Crystallization of High Quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film with Large Grains for Highly Efficient Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5658-5662	4.8	6
27	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden-Popper halide perovskites. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8966-8974	7.1	6
26	Self-Organized Co <sub>3</sub> O <sub>4</sub> -SrCO <sub>3</sub> Percolative Composites Enabling Nanosized Hole Transport Pathways for Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2106121	15.6	6
25	Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 8307-8310	3.7	5
24	Highly Ethylene-Selective Electrocatalytic CO Reduction Enabled by Isolated Cu-S Motifs in Metal-Organic Framework Based Precatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 1640-1644	16.4	5
23	Boric Acid Mediated Formation and Doping of NiO <sub>x</sub> Layers for Perovskite Solar Cells with Efficiency over 21%. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000810	7.1	5
22	Amorphous ferric oxide as a hole-extraction and transfer layer on nanoporous bismuth vanadate photoanode for water oxidation. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1045-1051	11.3	4

21	A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI Br Perovskite Solar Cells with Over 15 % Stabilized Efficiency. <i>ChemSusChem</i> , <b>2020</b> , 13, 5443-5448	8.3	4
20	Oriented inorganic perovskite absorbers processed by colloidal-phase fumigation. <i>Science China Materials</i> , <b>2021</b> , 64, 2421-2429	7.1	4
19	cRGD peptide-conjugated polyethylenimine-based lipid nanoparticle for intracellular delivery of siRNA in hepatocarcinoma therapy. <i>Drug Delivery</i> , <b>2021</b> , 28, 995-1006	7	4
18	Homogeneous doping of entire perovskite solar cells via alkali cation diffusion from the hole transport layer. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9266-9271	13	4
17	Molten Salt-Assisted Growth of Perovskite Films with Submillimeter-Sized Grains. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 524-529	3.9	3
16	Solar Cells: Highly Electrocatalytic Activity of RuO <sub>2</sub> Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells (Small 3/2014). <i>Small</i> , <b>2014</b> , 10, 483-483	11	3
15	Synthesis and characterization of heterometallic complexes as nanofibers by a solvothermal route. <i>RSC Advances</i> , <b>2013</b> , 3, 11640	3.7	3
14	Stabilization Techniques of Lead Halide Perovskite for Photovoltaic Applications. <i>Solar Rrl</i> , 2100710	7.1	3
13	Highly ordered mesoporous Co <sub>3</sub> O <sub>4</sub> cubes/graphene oxide heterostructure as efficient counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 16519-16527	2.1	3
12	Spontaneous Passivation of Perovskite Solar Cells by Titanium Tetrafluoride. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4121-4126	6.1	3
11	Inverted perovskite solar cells based on potassium salt-modified NiOX hole transport layers. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 3614-3620	7.8	3
10	Fabrication of Poly(ethylene glycol) Capsules via Emulsion Templating Method for Targeted Drug Delivery. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
9	Dynamic Output Feedback MPC for Interval Type-2 T-S Fuzzy Networked Control Systems with Packet Loss <b>2018</b> ,		2
8	TiO <sub>2</sub> cement for high-performance dye-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 83802-83807	3.7	2
7	Design, synthesis and biological evaluation of sphingosine-1-phosphate receptor 2 antagonists as potent 5-FU-resistance reversal agents for the treatment of colorectal cancer. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 225, 113775	6.8	2
6	Thin MAPbSnI Perovskite Single Crystals for Sensitive Infrared Light Detection.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 821699	5	1
5	Solution-processable nickel-chromium ternary oxide as an efficient hole transport layer for inverted planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	1
4	A Self-Formed Stable PbI <sub>2</sub> /NiO Interface with Increased Ni Centers for Perovskite Photovoltaics.. <i>Chemistry - A European Journal</i> , <b>2022</b> , e202200202	4.8	1



- 3 Non-selective adsorption of organic cations enables conformal surface capping of perovskite grains for stabilized photovoltaic operation. *Cell Reports Physical Science*, **2022**, 3, 100760 6.1 ○
- 2 Kanglexin protects against cardiac fibrosis and dysfunction in mice by TGF- $\beta$ /ERK1/2 noncanonical pathway. *Frontiers in Pharmacology*, **2020**, 11, 572637 5.6 ○
- 1 A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI Br Perovskite Solar Cells with Over 15 % Stabilized Efficiency. *ChemSusChem*, **2020**, 13, 5342 8.3