

# Shuang Yang

## List of Publications by Year in descending order

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114  
papers

8,392  
citations

70961

41  
h-index

46693

89  
g-index

118  
all docs

118  
docs citations

118  
times ranked

10946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imperfections and their passivation in halide perovskite solar cells. <i>Chemical Society Reviews</i> , 2019, 48, 3842-3867.	18.7	1,257
2	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. <i>Science</i> , 2019, 365, 473-478.	6.0	723
3	Tailoring Passivation Molecular Structures for Extremely Small Open-Circuit Voltage Loss in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 5781-5787.	6.6	585
4	Enhanced Thermal Stability in Perovskite Solar Cells by Assembling 2D/3D Stacking Structures. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 654-658.	2.1	447
5	Functionalization of perovskite thin films with moisture-tolerant molecules. <i>Nature Energy</i> , 2016, 1, .	19.8	439
6	Defect-Rich Ultrathin Cobaltâ€“Iron Layered Double Hydroxide for Electrochemical Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34474-34481.	4.0	345
7	Molybdenum carbide stabilized on graphene with high electrocatalytic activity for hydrogen evolution reaction. <i>Chemical Communications</i> , 2014, 50, 13135-13137.	2.2	235
8	Ultrathin Twoâ€“Dimensional Organicâ€“Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4252-4255.	7.2	206
9	Ni <sub>2</sub> P(O)/Fe <sub>2</sub> P(O) Interface Can Boost Oxygen Evolution Electrocatalysis. <i>ACS Energy Letters</i> , 2017, 2, 2257-2263.	8.8	173
10	Single Crystal Perovskite Solar Cells: Development and Perspectives. <i>Advanced Functional Materials</i> , 2020, 30, 1905021.	7.8	171
11	Facet-Dependent Catalytic Activity of Platinum Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2013, 3, 1836.	1.6	146
12	Formation Mechanism of Freestanding CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Functional Crystals: In Situ Transformation vs Dissolutionâ€“Crystallization. <i>Chemistry of Materials</i> , 2014, 26, 6705-6710.	3.2	143
13	Mo <sup>6+</sup> activated multimetal oxygen-evolving catalysts. <i>Chemical Science</i> , 2017, 8, 3484-3488.	3.7	129
14	Electrochemical etching of $\gamma$ -cobalt hydroxide for improvement of oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9578-9584.	5.2	125
15	Thermal-Induced Volmerâ€“Weber Growth Behavior for Planar Heterojunction Perovskites Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 5116-5121.	3.2	107
16	Surface chelation of cesium halide perovskite by dithiocarbamate for efficient and stable solar cells. <i>Nature Communications</i> , 2020, 11, 4237.	5.8	106
17	Active sites on hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15258.	5.2	96
18	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> , 2015, 3, 14101-14104.	5.2	95

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19	A Gradient Heterostructure Based on Tolerance Factor in High-Performance Perovskite Solar Cells with 0.84 Fill Factor. <i>Advanced Materials</i> , 2019, 31, e1804217.	11.1	95
20	Titania single crystals with a curved surface. <i>Nature Communications</i> , 2014, 5, 5355.	5.8	94
21	Oriented collagen fiber membranes formed through counter-rotating extrusion and their application in tendon regeneration. <i>Biomaterials</i> , 2019, 207, 61-75.	5.7	93
22	Organohalide Lead Perovskites: More Stable than Glass under Gamma-Ray Radiation. <i>Advanced Materials</i> , 2019, 31, e1805547.	11.1	92
23	Surface Electronic Modification of Perovskite Thin Film with Water-Resistant Electron Delocalized Molecules for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , 2018, 8, 1703143.	10.2	91
24	Low-temperature processed In <sub>2</sub> S <sub>3</sub> electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , 2017, 36, 102-109.	8.2	87
25	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , 2019, 9, 1900185.	10.2	85
26	Hydrogen-treated commercial WO <sub>3</sub> as an efficient electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 5945.	2.2	83
27	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> , 2017, 27, 1700878.	7.8	81
28	Highly Ethylene-Selective Electrocatalytic CO <sub>2</sub> Reduction Enabled by Isolated Cu <sup>+</sup> S Motifs in Metal-Organic Framework Based Precatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	81
29	Engineered Hematite Mesoporous Single Crystals Drive Drastic Enhancement in Solar Water Splitting. <i>Nano Letters</i> , 2016, 16, 427-433.	4.5	80
30	Size-controlled synthesis, magnetic property, and photocatalytic property of uniform $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles via a facile additive-free hydrothermal route. <i>CrystEngComm</i> , 2012, 14, 7915.	1.3	70
31	Highly Electrocatalytic Activity of RuO <sub>2</sub> Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Small</i> , 2014, 10, 484-492.	5.2	68
32	Stoichiometric Dissolution of Defective CsPb <sub>2</sub> Br Surfaces for Inorganic Solar Cells with 17.5% Efficiency. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	66
33	Self-Powered FA <sub>0.55</sub> MA <sub>0.45</sub> Pb <sub>3</sub> Single-Crystal Perovskite X-Ray Detectors with High Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2109149.	7.8	62
34	Surface-functionalized perovskite films for stable photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 910-913.	5.2	60
35	Critical roles of co-catalysts for molecular hydrogen formation in photocatalysis. <i>Journal of Catalysis</i> , 2015, 330, 120-128.	3.1	59
36	Multifunctional Inverse Opal-Like TiO <sub>2</sub> Electron Transport Layer for Efficient Hybrid Perovskite Solar Cells. <i>Advanced Science</i> , 2015, 2, 1500105.	5.6	58

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37	Revealing defective nanostructured surfaces and their impact on the intrinsic stability of hybrid perovskites. <i>Energy and Environmental Science</i> , 2021, 14, 1563-1572.	15.6	55
38	A Solution-Processed Transparent NiO Hole-Extraction Layer for High-Performance Inverted Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2018, 24, 2845-2849.	1.7	54
39	Sonodynamic therapy induces the interplay between apoptosis and autophagy in K562 cells through ROS. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 60, 82-92.	1.2	51
40	Benign ferroelastic twin boundaries in halide perovskites for charge carrier transport and recombination. <i>Nature Communications</i> , 2020, 11, 2215.	5.8	47
41	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1900971.	3.6	46
42	Designing Large-Area Single-Crystal Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1797-1803.	8.8	46
43	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> , 2016, 4, 6521-6526.	5.2	42
44	LncRNA PCFL promotes cardiac fibrosis via miR-378/GRB2 pathway following myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 133, 188-198.	0.9	40
45	Water assisted formation of highly oriented CsPb <sub>2</sub> Br perovskite films with the solar cell efficiency exceeding 16%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17670-17674.	5.2	40
46	Antiswelling and Durable Adhesion Biodegradable Hydrogels for Tissue Repairs and Strain Sensors. <i>Langmuir</i> , 2020, 36, 10448-10459.	1.6	37
47	Epitaxial halide perovskite-based materials for photoelectric energy conversion. <i>Energy and Environmental Science</i> , 2021, 14, 127-157.	15.6	37
48	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> , 2013, 1, 1982-1986.	5.2	36
49	Irgm1 promotes M1 but not M2 macrophage polarization in atherosclerosis pathogenesis and development. <i>Atherosclerosis</i> , 2016, 251, 282-290.	0.4	34
50	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> , 2013, 19, 9366-9370.	1.7	31
51	Chemical constituents of <i>Lobelia chinensis</i> . <i>FÄ-toterapÄ-Äc</i> , 2014, 93, 168-174.	1.1	31
52	Modulating MAPbI <sub>3</sub> perovskite solar cells by amide molecules: Crystallographic regulation and surface passivation. <i>Journal of Energy Chemistry</i> , 2021, 56, 179-185.	7.1	31
53	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> , 2014, 2, 17253-17257.	5.2	30
54	Deepening the Valance Band Edges of NiO Contacts by Alkaline Earth Metal Doping for Efficient Perovskite Photovoltaics with High Open-Circuit Voltage. <i>Solar Rrl</i> , 2019, 3, 1900192.	3.1	30

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55	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> , 2014, 2, 614-619.	5.2	29
56	Turning Indium Oxide into a Superior Electrocatalyst: Deterministic Heteroatoms. <i>Scientific Reports</i> , 2013, 3, 3109.	1.6	28
57	Structure disorder of graphitic carbon nitride induced by liquid-assisted grinding for enhanced photocatalytic conversion. <i>RSC Advances</i> , 2014, 4, 10676-10679.	1.7	28
58	MgO@Li <sub>2</sub> O catalysts templated by a PDMS@PEO comb-like copolymer for transesterification of vegetable oil to biodiesel. <i>Fuel</i> , 2016, 165, 215-223.	3.4	24
59	Mediating the Local Oxygen-Bridge Interactions of Oxysalt/Perovskite Interface for Defect Passivation of Perovskite Photovoltaics. <i>Nano-Micro Letters</i> , 2021, 13, 177.	14.4	24
60	Crystal shape engineering of anatase TiO <sub>2</sub> and its biomedical applications. <i>CrystEngComm</i> , 2015, 17, 6617-6631.	1.3	23
61	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> , 2015, 3, 15854-15857.	5.2	23
62	Ni@Co@O hole transport materials: gap state assisted hole extraction with superior electrical conductivity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20905-20910.	5.2	23
63	Activation of microbubbles by low-level therapeutic ultrasound enhances the antitumor effects of doxorubicin. <i>European Radiology</i> , 2014, 24, 2739-2753.	2.3	22
64	Ultrathin Two-Dimensional Organic-Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. <i>Angewandte Chemie</i> , 2017, 129, 4316-4319.	1.6	21
65	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> , 2013, 52, 4098-4102.	1.8	20
66	Diammonium-Cesium Lead Halide Perovskite with Phase-Segregated Interpenetrating Morphology for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 747-754.	2.1	20
67	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26384-26390.	4.0	20
68	Highly efficient overlayer derived from peroxotitanium for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1374-1379.	5.2	18
69	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> , 2014, 2, 1641-1646.	5.2	18
70	Antifouling and pH-Responsive Poly(Carboxybetaine)-Based Nanoparticles for Tumor Cell Targeting. <i>Frontiers in Chemistry</i> , 2019, 7, 770.	1.8	18
71	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden-Popper halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8966-8974.	2.7	18
72	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> , 2021, 31, 2106121.	7.8	18

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73	Chemical Vapor Deposition of FeOCl Nanosheet Arrays and Their Conversion to Porous $\text{Fe}_2\text{O}_3$ Photoanodes for Photoelectrochemical Water Splitting. <i>Chemistry - A European Journal</i> , 2015, 21, 18024-18028.	1.7	17
74	Synthesis and bioevaluation of diarylpyrazoles as antiproliferative agents. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 1-10.	2.6	17
75	Kanglexin accelerates diabetic wound healing by promoting angiogenesis via FGFR1/ERK signaling. <i>Biomedicine and Pharmacotherapy</i> , 2020, 132, 110933.	2.5	17
76	Hierarchical structure engineering of brookite $\text{TiO}_2$ crystals for enhanced photocatalytic and external antitumor property. <i>Science Bulletin</i> , 2016, 61, 1818-1825.	4.3	16
77	Zn(ii)-doped $\text{Fe}_2\text{O}_3$ single-crystalline nanoplates with high phase-transition temperature, superparamagnetic property and good photocatalytic property. <i>RSC Advances</i> , 2013, 3, 21994.	1.7	15
78	Formation of high-quality perovskite thin film for planar heterojunction solar cells. <i>RSC Advances</i> , 2015, 5, 69502-69508.	1.7	15
79	Key role of collagen fibers orientation in casing-meat adhesion. <i>Food Research International</i> , 2016, 89, 439-447.	2.9	15
80	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> , 2013, 1311, 134-139.	1.8	12
81	cRGD peptide-conjugated polyethylenimine-based lipid nanoparticle for intracellular delivery of siRNA in hepatocarcinoma therapy. <i>Drug Delivery</i> , 2021, 28, 995-1006.	2.5	12
82	Boric Acid Mediated Formation and Doping of $\text{NiO}$ Layers for Perovskite Solar Cells with Efficiency over 21%. <i>Solar Rrl</i> , 2021, 5, 2000810.	3.1	12
83	Strain-free hybrid perovskite films based on a molecular buffer interface for efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10865-10871.	5.2	12
84	Precisely controlled heterogeneous nucleation sites for $\text{TiO}_2$ crystal growth. <i>CrystEngComm</i> , 2014, 16, 7502.	1.3	11
85	Kang Le Xin Reduces Blood Pressure Through Inducing Endothelial-Dependent Vasodilation by Activating the AMPK-eNOS Pathway. <i>Frontiers in Pharmacology</i> , 2019, 10, 1548.	1.6	11
86	Efficacy of combined therapy with paclitaxel and low-level ultrasound in human chronic myelogenous leukemia cell line K562. <i>Journal of Drug Targeting</i> , 2013, 21, 874-884.	2.1	10
87	Anatase $\text{TiO}_2$ with nanopores for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23038-23043.	1.3	9
88	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> , 2021, 225, 113775.	2.6	9
89	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> , 2021, 9, 21792-21798.	5.2	8
90	Homogeneous doping of entire perovskite solar cells via alkali cation diffusion from the hole transport layer. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9266-9271.	5.2	8

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91	Inverted perovskite solar cells based on potassium salt-modified NiO <sub>x</sub> hole transport layers. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3614-3620.	3.2	8
92	Stabilization Techniques of Lead Halide Perovskite for Photovoltaic Applications. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
93	Controlled Oriented Attachment of Bipyramidal Shaped Anatase TiO <sub>2</sub> and Their Enhanced Performance in Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , 2015, 80, 805-809.	1.3	7
94	Oriented inorganic perovskite absorbers processed by colloidal-phase fumigation. <i>Science China Materials</i> , 2021, 64, 2421-2429.	3.5	7
95	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> , 2017, 23, 5658-5662.	1.7	6
96	Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 8307-8310.	1.7	5
97	Amorphous ferric oxide as a hole-extraction and transfer layer on nanoporous bismuth vanadate photoanode for water oxidation. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1045-1051.	6.9	5
98	Fabrication of Poly(ethylene glycol) Capsules via Emulsion Templating Method for Targeted Drug Delivery. <i>Polymers</i> , 2020, 12, 1124.	2.0	5
99	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> , 2021, 32, 16519-16527.	1.1	5
100	Highly Ethylene-Selective Electrocatalytic CO <sub>2</sub> Reduction Enabled by Isolated Cu <sup>+</sup> S Motifs in Metal-Organic Framework Based Precatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
101	A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI <sub>2</sub> Br Perovskite Solar Cells with Over 15% Stabilized Efficiency. <i>ChemSusChem</i> , 2020, 13, 5443-5448.	3.6	4
102	Spontaneous Passivation of Perovskite Solar Cells by Titanium Tetrafluoride. <i>ACS Applied Energy Materials</i> , 2020, 3, 4121-4126.	2.5	4
103	Thin MAPb <sub>0.5</sub> Sn <sub>0.5</sub> I <sub>3</sub> Perovskite Single Crystals for Sensitive Infrared Light Detection. <i>Frontiers in Chemistry</i> , 2021, 9, 821699.	1.8	4
104	Non-selective adsorption of organic cations enables conformal surface capping of perovskite grains for stabilized photovoltaic operation. <i>Cell Reports Physical Science</i> , 2022, 3, 100760.	2.8	4
105	A Self-Formed Stable Pbl <sub>2</sub> /NiO <sub>x</sub> Interface with Increased Ni <sup>3+</sup> Centers for Perovskite Photovoltaics. <i>Chemistry - A European Journal</i> , 2022, 28, e202200202.	1.7	4
106	Synthesis and characterization of heterometallic complexes as nanofibers by a solvothermal route. <i>RSC Advances</i> , 2013, 3, 11640.	1.7	3
107	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> , 2014, 10, 483-483.	5.2	3
108	TiO <sub>2</sub> cement for high-performance dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 83802-83807.	1.7	3

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109	Molten Salt-Assisted Growth of Perovskite Films with Submillimeter-Sized Grains. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 524-529.	1.8	3
110	Inducing Intermediates in Biotransformation of Natural Polyacetylene and A Novel Spiro- $\beta$ -Lactone from Red Ginseng by Solid Co-Culture of Two Gut <i>Chaetomium globosum</i> and The Potential Bioactivity Modification by Oxidative Metabolism. <i>Molecules</i> , 2020, 25, 1216.	1.7	2
111	Kanglexin protects against cardiac fibrosis and dysfunction in mice by TGF- $\beta$ 1/ERK1/2 noncanonical pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 572637.	1.6	2
112	Dynamic Output Feedback MPC for Interval Type-2 T-S Fuzzy Networked Control Systems with Packet Loss. , 2018, , .		2
113	A Dendrite-Structured RbX (X=Br, I) Interlayer for CsPbI <sub>2</sub> Br Perovskite Solar Cells with Over 15% Stabilized Efficiency. <i>ChemSusChem</i> , 2020, 13, 5342-5342.	3.6	1
114	Frontispiece: 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> , 2015, 21, .	1.7	0