Yi-Xin Zhao

List of Publications by Year in Descending Order

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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.

199	14,732	61	118
papers	citations	h-index	g-index
223	17,378 ext. citations	11	7.42
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
199	Overcoming Acidic HO/Fe(II/III) Redox-Induced Low HO Utilization Efficiency by Carbon Quantum Dots Fenton-like Catalysis <i>Environmental Science & Enphrology</i> , 2022 ,	10.3	7
198	Two dimensional porous Ni12P5 sheet modified Mn0.5Cd0.5S for efficient photo-catalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8275-8283	6.7	2
197	Electro-Reforming Polyethylene Terephthalate Plastic to Co-Produce Valued Chemicals and Green Hydrogen <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 622-627	6.4	5
196	Synergistic stabilization of CsPbI3 inorganic perovskite via 1D capping and secondary growth. <i>Journal of Energy Chemistry</i> , 2022 , 68, 387-392	12	1
195	Perovskite solar cells by vapor deposition based and assisted methods. <i>Applied Physics Reviews</i> , 2022 , 9, 021305	17.3	9
194	Potential lead toxicity and leakage issues on lead halide perovskite photovoltaics. <i>Journal of Hazardous Materials</i> , 2021 , 127848	12.8	16
193	The Chemical Design in High-Performance Lead Halide Perovskite: Additive vs Dopant?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11636-11644	6.4	3
192	Amorphous NiCoB-coupled MAPbI for efficient photocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2021 ,	4.3	1
191	Deep-Red Perovskite Light-Emitting Diodes Based on One-Step-Formed EcsPbI Cuboid Crystallites. <i>Advanced Materials</i> , 2021 , 33, e2105699	24	8
190	In situ growth of ultra-thin perovskitoid layer to stabilize and passivate MAPbI3 for efficient and stable photovoltaics. <i>EScience</i> , 2021 ,		20
189	Organic Tetrabutylammonium Cation Intercalation to Heal Inorganic CsPbI3 Perovskite. <i>Angewandte Chemie</i> , 2021 , 133, 12459-12463	3.6	11
188	Organic Tetrabutylammonium Cation Intercalation to Heal Inorganic CsPbI Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12351-12355	16.4	32
187	Modification of Ti-doped Hematite Photoanode with Quasi-molecular Cocatalyst: A Comparison of Improvement Mechanism Between Non-noble and Noble Metals. <i>ChemSusChem</i> , 2021 , 14, 2180-2187	8.3	2
186	Near UV luminescent Cs2NaBi0.75Sb0.25Cl6 perovskite colloidal nanocrystals with high stability. <i>Chinese Chemical Letters</i> , 2021 , 33, 537-537	8.1	2
185	All-inorganic lead-free metal halide perovskite quantum dots: progress and prospects. <i>Chemical Communications</i> , 2021 , 57, 7465-7479	5.8	4
184	Using steric hindrance to manipulate and stabilize metal halide perovskites for optoelectronics. <i>Chemical Science</i> , 2021 , 12, 7231-7247	9.4	14
183	Advances to High-Performance Black-Phase FAPbI3 Perovskite for Efficient and Stable Photovoltaics. <i>Small Structures</i> , 2021 , 2, 2000130	8.7	25

182	Cu-Sb-S Ternary Semiconductor Nanoparticle Plasmonics. <i>Nano Letters</i> , 2021 , 21, 2610-2617	11.5	5
181	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 2735-2741	20.1	9
180	Incorporation of Two-Dimensional WSe into MAPbI Perovskite for Efficient and Stable Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6883-6888	6.4	1
179	Two-Dimensional Materials for Perovskite Solar Cells with Enhanced Efficiency and Stability 2021 , 3, 1402-1416		7
178	Highly Stable Inorganic Lead Halide Perovskite toward Efficient Photovoltaics. <i>Accounts of Chemical Research</i> , 2021 , 54, 3452-3461	24.3	9
177	MA Cation-Induced Diffusional Growth of Low-Bandgap FA-Cs Perovskites Driven by Natural Gradient Annealing. <i>Research</i> , 2021 , 2021, 9765106	7.8	2
176	Hybrid Phase MoS2 as a Noble Metal-Free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20887-20895	3.8	1
175	Efficient and Stable CsPbI Inorganic Perovskite Photovoltaics Enabled by Crystal Secondary Growth. <i>Advanced Materials</i> , 2021 , 33, e2103688	24	24
174	Organic Matrix Assisted Low-temperature Crystallization of Black Phase Inorganic Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	9
173	The ClOlgeneration and chlorate suppression in photoelectrochemical reactive chlorine species systems on BiVO4 photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120387	21.8	4
172	Peroxydisulfate activation by photo-generated charges on mesoporous carbon nitride for removal of chlorophenols. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120370	21.8	11
171	Cu7S4/MnIn2S4 heterojunction for efficient photocatalytic hydrogen generation. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161035	5.7	2
170	Lead-Free Cs AgSbCl Double Perovskite Nanocrystals for Effective Visible-Light Photocatalytic C-C Coupling Reactions <i>ChemSusChem</i> , 2021 , e202102334	8.3	6
169	Surface Coordination Layer to Enhance the Stability of Plasmonic Cu Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27624-27630	3.8	O
168	Nano-Fe(0)/mesoporous carbon supported on biochar for activating peroxydisulfate to remove polycyclic aromatics hydrocarbons. <i>Emergent Materials</i> , 2020 , 3, 307-313	3.5	2
167	CaMnO3 perovskite nanocrystals for efficient peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2020 , 398, 125638	14.7	19
166	Enhanced visible/near-infrared light harvesting and superior charge separation via 0D/2D all-carbon hybrid architecture for photocatalytic oxygen evolution. <i>Carbon</i> , 2020 , 167, 724-735	10.4	14
165	In situ modification of BiVO nanosheets on graphene for boosting photocatalytic water oxidation. <i>Nanoscale</i> , 2020 , 12, 14853-14862	7.7	15

164	Partial Cu ion exchange induced triangle hexagonal MnCuCdS nanocrystals for enhanced photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2020 , 56, 8127-8130	5.8	7
163	Top-down fabrication of colloidal plasmonic MoO nanocrystals via solution chemistry hydrogenation. <i>Chemical Communications</i> , 2020 , 56, 4816-4819	5.8	2
162	NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts with Fe as Electron Transfer Mediator for Enhanced Persulfate Activation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 968-973	6.4	22
161	Potassium stabilization of methylammonium lead bromide perovskite for robust photocatalytic H2 generation. <i>EcoMat</i> , 2020 , 2, e12015	9.4	8
160	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO2 Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 11559-11566	3.6	4
159	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11462-11469	16.4	11
158	Interface modification of SnO2 layer using pl junction double layer for efficiency enhancement of perovskite solar cell. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 505103	3	6
157	Lead-free double perovskite Cs2AgBiBr6/RGO composite for efficient visible light photocatalytic H2 evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118399	21.8	79
156	Steric Mixed-Cation 2D Perovskite as a Methylammonium Locker to Stabilize MAPbI3. <i>Angewandte Chemie</i> , 2020 , 132, 1485-1489	3.6	11
155	Steric Mixed-Cation 2D Perovskite as a Methylammonium Locker to Stabilize MAPbl. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1469-1473	16.4	35
154	Tuning layered Fe-doped g-C3N4 structure through pyrolysis for enhanced Fenton and photo-Fenton activities. <i>Carbon</i> , 2020 , 159, 461-470	10.4	58
153	V-rich Bi2S3 nanowire with efficient charge separation and transport for high-performance and robust photoelectrochemical application under visible light. <i>Catalysis Today</i> , 2020 , 350, 47-55	5.3	7
152	Influence of PbS Quantum Dots-Doped TiO2 Nanotubes in TiO2 Film as an Electron Transport Layer for Enhanced Perovskite Solar Cell Performance. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 287-295	3.7	1
151	Design of Advanced Functional Materials Using Nanoporous Single-Site Photocatalysts. <i>Chemical Record</i> , 2020 , 20, 660-671	6.6	3
150	Effective removal of chlorinated organic pollutants by bimetallic iron-nickel sulfide activation of peroxydisulfate. <i>Chinese Chemical Letters</i> , 2020 , 31, 1535-1539	8.1	13
149	Mechanochemically sulfured FeS1.92 as stable and efficient heterogeneous Fenton catalyst. <i>Chinese Chemical Letters</i> , 2020 , 31, 1978-1981	8.1	6
148	Stabilizing the MAPbI3 perovksite via the in-situ formed lead sulfide layer for efficient and robust solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 47, 62-65	12	13
147	Binderless and Oxygen Vacancies Rich FeNi/Graphitized Mesoporous Carbon/Ni Foam for Electrocatalytic Reduction of Nitrate. <i>Environmental Science & Description of Nitrate</i> .	10.3	32

(2019-2020)

146	Recent progress and prospects of integrated perovskite/organic solar cells. <i>Applied Physics Reviews</i> , 2020 , 7, 031303	17.3	16
145	Incorporating quantum dots for high efficiency and stable perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25017-25027	13	13
144	Chemically Stable Black Phase CsPbI Inorganic Perovskites for High-Efficiency Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001025	24	48
143	5-Ammonium Valeric Acid Iodide to Stabilize MAPbI via a Mixed-Cation Perovskite with Reduced Dimension. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8170-8176	6.4	7
142	Highly Efficient (110) Orientated FA-MA Mixed Cation Perovskite Solar Cells via Functionalized Carbon Nanotube and Methylammonium Chloride Additive. <i>Small Methods</i> , 2020 , 4, 1900511	12.8	13
141	MoS-Stratified CdS-CuS Core-Shell Nanorods for Highly Efficient Photocatalytic Hydrogen Production. <i>ACS Nano</i> , 2020 , 14, 5468-5479	16.7	54
140	Spontaneous low-temperature crystallization of FAPbI3 for highly efficient perovskite solar cells. <i>Science Bulletin</i> , 2019 , 64, 1608-1616	10.6	27
139	Tubular morphology preservation and doping engineering of Sn/P-codoped hematite for photoelectrochemical water oxidation. <i>Dalton Transactions</i> , 2019 , 48, 928-935	4.3	4
138	All-inorganic lead-free perovskites for optoelectronic applications. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 365-375	7.8	77
137	Defect Engineering in Semiconductors: Manipulating Nonstoichiometric Defects and Understanding Their Impact in Oxynitrides for Solar Energy Conversion. <i>Advanced Functional Materials</i> , 2019 , 29, 1808389	15.6	37
136	CuO nanosheet as a recyclable Fenton-like catalyst prepared from simulated Cu(II) waste effluents by alkaline H2O2 reaction. <i>Environmental Science: Nano</i> , 2019 , 6, 105-114	7.1	25
135	Photostability of MAPbI3 Perovskite Solar Cells by Incorporating Black Phosphorus. <i>Solar Rrl</i> , 2019 , 3, 1900197	7.1	28
134	Chemical stability and instability of inorganic halide perovskites. <i>Energy and Environmental Science</i> , 2019 , 12, 1495-1511	35.4	335
133	Fast Charge Diffusion in MAPb(IBr) Films for High-Efficiency Solar Cells Revealed by Ultrafast Time-Resolved Reflectivity. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 2674-2678	2.8	5
132	Thermodynamically stabilized ECsPbI-based perovskite solar cells with efficiencies >18. <i>Science</i> , 2019 , 365, 591-595	33.3	644
131	CsPb(I Br1)B solar cells. <i>Science Bulletin</i> , 2019 , 64, 1532-1539	10.6	92
130	Stable Lead-Free (CH3NH3)3Bi2I9 Perovskite for Photocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15080-15085	8.3	47
129	Highly Efficient Utilization of Nano-Fe(0) Embedded in Mesoporous Carbon for Activation of Peroxydisulfate. <i>Environmental Science & Environmental Environ</i>	10.3	83

128	Inorganic CsPbI3 Perovskites toward High-Efficiency Photovoltaics. <i>Energy and Environmental Materials</i> , 2019 , 2, 73-78	13	27
127	The Role of Dimethylammonium Iodide in CsPbI Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16691-16696	16.4	264
126	The Role of Dimethylammonium Iodide in CsPbI3 Perovskite Fabrication: Additive or Dopant?. <i>Angewandte Chemie</i> , 2019 , 131, 16844-16849	3.6	32
125	Organic salt mediated growth of phase pure and stable all-inorganic CsPbX3 (X = I, Br) perovskites for efficient photovoltaics. <i>Science Bulletin</i> , 2019 , 64, 1773-1779	10.6	29
124	Effect of chloride substitution on interfacial charge transfer processes in MAPbI3 perovskite thin film solar cells: planar versus mesoporous. <i>Nanoscale Advances</i> , 2019 , 1, 827-833	5.1	19
123	Recent Progress of Photocatalysis Based on Metal Halide Perovskites. <i>Acta Chimica Sinica</i> , 2019 , 77, 10	75 .3	7
122	Organic ammonium salt surface treatment stabilizing all-inorganic CsPbI2Br perovskite. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 158805	0.6	1
121	Lead-free silver-antimony halide double perovskite quantum dots with superior blue photoluminescence. <i>Chemical Communications</i> , 2019 , 55, 14741-14744	5.8	25
120	[Mo3S13]2[modified TiO2 coating on non-woven fabric for efficient photocatalytic mineralization of acetone. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 190-196	21.8	17
119	Secondary battery inspired NiO nanosheets with rich Ni(III) defects for enhancing persulfates activation in phenolic waste water degradation. <i>Chemical Engineering Journal</i> , 2019 , 360, 97-103	14.7	24
118	Phosphorus-doped Isotype g-C3N4/g-C3N4: An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. <i>ChemCatChem</i> , 2019 , 11, 729-736	5.2	22
117	Ferric (hydr)oxide/mesoporous carbon composites as Fenton-like catalysts for degradation of phenol. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4103-4117	2.8	15
116	Hydrophilic mesoporous carbon as iron(III)/(II) electron shuttle for visible light enhanced Fenton-like degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 108-114	21.8	72
115	Secondary battery inspired Enickel hydroxide as an efficient Ni-based heterogeneous catalyst for sulfate radical activation. <i>Science Bulletin</i> , 2018 , 63, 278-281	10.6	16
114	A metal-free visible light active photo-electro-Fenton-like cell for organic pollutants degradation. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 211-217	21.8	39
113	A Facile Low Temperature Fabrication of High Performance CsPbI2Br All-Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700180	7.1	124
112	Formation of highly luminescent cesium bismuth halide perovskite quantum dots tuned by anion exchange. <i>Chemical Communications</i> , 2018 , 54, 3779-3782	5.8	82
111	A Stable Plasmonic Cu@Cu O/ZnO Heterojunction for Enhanced Photocatalytic Hydrogen Generation. <i>ChemSusChem</i> , 2018 , 11, 1505-1511	8.3	63

(2018-2018)

110	A mixed-cation lead iodide MA1NEAxPbI3 absorber for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2018 , 27, 215-218	12	18
109	Li dopant induces moisture sensitive phase degradation of an all-inorganic CsPbIBr perovskite. <i>Chemical Communications</i> , 2018 , 54, 9809-9812	5.8	66
108	Interfacial crosslinked quasi-2D perovskite with boosted carrier transport and enhanced stability. Journal Physics D: Applied Physics, 2018, 51, 404001	3	18
107	Dry Chemistry of Ferrate(VI): A Solvent-Free Mechanochemical Way for Versatile Green Oxidation. <i>Angewandte Chemie</i> , 2018 , 130, 11115-11119	3.6	5
106	Efficient EcsPbI3 Photovoltaics with Surface Terminated Organic Cations. <i>Joule</i> , 2018 , 2, 2065-2075	27.8	21 0
105	Harvest of ocean energy by triboelectric generator technology. <i>Applied Physics Reviews</i> , 2018 , 5, 03130	317.3	9
104	Integration of a functionalized graphene nano-network into a planar perovskite absorber for high-efficiency large-area solar cells. <i>Materials Horizons</i> , 2018 , 5, 868-873	14.4	21
103	A highly efficient nanoporous BiVO4 photoelectrode with enhanced interface charge transfer Co-catalyzed by molecular catalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 504-511	21.8	29
102	Rod-shaped thiocyanate-induced abnormal band gap broadening in SCNIdoped CsPbBr3 perovskite nanocrystals. <i>Nano Research</i> , 2018 , 11, 2715-2723	10	30
101	Highly efficient colloidal MnxCd1\(\mathbb{R}\)S nanorod solid solution for photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23683-23689	13	32
100	All-inorganic CsCuX (X = Cl, Br, and Br/I) perovskite quantum dots with blue-green luminescence. <i>Chemical Communications</i> , 2018 , 54, 11638-11641	5.8	65
99	Bifunctional Stabilization of All-Inorganic EcsPbI Perovskite for 17% Efficiency Photovoltaics. Journal of the American Chemical Society, 2018 , 140, 12345-12348	16.4	434
98	A Tandem Water Splitting Cell Based on Nanoporous BiVO4 Photoanode Cocatalyzed by Ultrasmall Cobalt Borate Sandwiched with Conformal TiO2 Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16228-16234	8.3	11
97	Brand new 1D branched CuO nanowire arrays for efficient photoelectrochemical water reduction. <i>Dalton Transactions</i> , 2018 , 47, 14566-14572	4.3	12
96	Optoelectronic Dichotomy of Mixed Halide CHNHPb(BrCl) Single Crystals: Surface versus Bulk Photoluminescence. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11811-11819	16.4	18
95	Efficient hydrogen evolution from the hydrolysis of ammonia borane using bilateral-like WO nanorods coupled with NiP nanoparticles. <i>Chemical Communications</i> , 2018 , 54, 6188-6191	5.8	21
94	FeOOH quantum dots coupled g-C3N4 for visible light driving photo- Fenton degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 513-520	21.8	143
93	Dry Chemistry of Ferrate(VI): A Solvent-Free Mechanochemical Way for Versatile Green Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10949-10953	16.4	17

92	A simple fabrication of CH3NH3PbI3 perovskite for solar cells using low-purity PbI2. <i>Journal of Semiconductors</i> , 2017 , 38, 014004	2.3	8
91	Sulfurated [NiFe]-based layered double hydroxides nanoparticles as efficient co-catalysts for photocatalytic hydrogen evolution using CdTe/CdS quantum dots. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 155-160	21.8	48
90	Visible Light Assisted Heterogeneous Fenton-Like Degradation of Organic Pollutant via FeOOH/Mesoporous Carbon Composites. <i>Environmental Science & Environmental Science & En</i>	00 ^{10.3}	167
89	Synergetic Effect of Chloride Doping and CH NH PbCl on CH NH PbI Cl Perovskite-Based Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 2365-2369	8.3	42
88	Mesoporous TiO 2 films coated on carbon foam based on waste polyurethane for enhanced photocatalytic oxidation of VOCs. <i>Applied Catalysis B: Environmental</i> , 2017 , 212, 1-6	21.8	89
87	Mixed cation hybrid lead halide perovskites with enhanced performance and stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11450-11461	13	123
86	Highly Active IrOx Nanoparticles/Black Si Electrode for Efficient Water Splitting with Conformal TiO2 Interface Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10940-10946	8.3	22
85	Bication lead iodide 2D perovskite component to stabilize inorganic EcsPbI perovskite phase for high-efficiency solar cells. <i>Science Advances</i> , 2017 , 3, e1700841	14.3	450
84	Additive-Assisted Controllable Growth of Perovskites. <i>Series on Chemistry, Energy and the Environment</i> , 2017 , 1-26	0.2	4
83	A facile deposition of large grain and phase pure FAPbI 3 for perovskite solar cells via a flash crystallization. <i>Materials Today Energy</i> , 2017 , 5, 293-298	7	19
82	Photodeposited FeOOH vs electrodeposited Co-Pi to enhance nanoporous BiVO4for photoelectrochemical water splitting. <i>Journal of Semiconductors</i> , 2017 , 38, 053004	2.3	7
81	In Situ Fabrication of Highly Luminescent Bifunctional Amino Acid Crosslinked 2D/3D NH3C4H9COO(CH3NH3PbBr3)n Perovskite Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1603568	15.6	103
80	Complete Conversion of PbI to Methyl Ammonium PbI Improves Perovskite Solar Cell Efficiency. <i>ChemPhysChem</i> , 2017 , 18, 47-50	3.2	8
79	CH3NH3Cl Assisted Solvent Engineering for Highly Crystallized and Large Grain Size Mixed-Composition (FAPbI3)0.85(MAPbBr3)0.15 Perovskites. <i>Crystals</i> , 2017 , 7, 272	2.3	20
78	Ultrasensitive optical detection of anions by quantum dots. <i>Nanoscale Horizons</i> , 2016 , 1, 125-134	10.8	14
77	The layer boundary effect on multi-layer mesoporous TiO2 film based dye sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 98167-98170	3.7	2
76	Facile fabrication of large-grain CH3NH3PbI3-xBrx films for high-efficiency solar cells via CH3NH3Br-selective Ostwald ripening. <i>Nature Communications</i> , 2016 , 7, 12305	17.4	358
75	Organic-inorganic interactions of single crystalline organolead halide perovskites studied by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18112-8	3.6	68

(2015-2016)

74	High performance nanoporous silicon photoelectrodes co-catalyzed with an earth abundant [Mo3S13]2[hanocluster via drop coating. <i>RSC Advances</i> , 2016 , 6, 15610-15614	3.7	7
73	Proton Reduction Using a Hydrogenase-Modified Nanoporous Black Silicon Photoelectrode. <i>ACS Applied Materials & Discrete Amp; Interfaces</i> , 2016 , 8, 14481-7	9.5	33
72	Light-Driven Overall Water Splitting Enabled by a Photo-Dember Effect Realized on 3D Plasmonic Structures. <i>ACS Nano</i> , 2016 , 10, 6693-701	16.7	34
71	Identification and characterization of the intermediate phase in hybrid organic-inorganic MAPbI3 perovskite. <i>Dalton Transactions</i> , 2016 , 45, 3806-13	4.3	212
70	Organic-inorganic hybrid lead halide perovskites for optoelectronic and electronic applications. <i>Chemical Society Reviews</i> , 2016 , 45, 655-89	58.5	1049
69	Highly photocatalytic active thiomolybdate [Mo 3 S 13] 2ltlusters/Bi 2 WO 6 nanocomposites. <i>Catalysis Today</i> , 2016 , 274, 22-27	5.3	10
68	A general non-CH3NH3X (X = I, Br) one-step deposition of CH3NH3PbX3 perovskite for high performance solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3245-3248	13	43
67	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , 2016 , 284, 565-570	14.7	25
66	Intercalation crystallization of phase-pure HC(NH P bl@pon microstructurally engineered Pbl© thin films for planar perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6265-70	7.7	33
65	Highly photocatalytic active thiomolybdate [Mo3S13]2[tlusters/BiOBr nanocomposite with enhanced sulfur tolerance. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 1-7	21.8	28
64	A controllable fabrication of grain boundary PbI2 nanoplates passivated lead halide perovskites for high performance solar cells. <i>Nano Energy</i> , 2016 , 26, 50-56	17.1	138
63	Carbon quantum dots decorated Bi2WO6 nanocomposite with enhanced photocatalytic oxidation activity for VOCs. <i>Applied Catalysis B: Environmental</i> , 2016 , 193, 16-21	21.8	198
62	Ion-Exchange-Induced 2D-3D Conversion of HMA FA PbI Cl Perovskite into a High-Quality MA FA PbI Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13460-13464	16.4	71
61	CdTe/CdS Core/Shell Quantum Dots Cocatalyzed by Sulfur Tolerant [Mo3S13]2[Nanoclusters for Efficient Visible-Light-Driven Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6653-6658	8.3	50
60	Ion-Exchange-Induced 2DBD Conversion of HMA1\(\text{IFAxPbI3Cl Perovskite into a High-Quality } \) MA1\(\text{IFAxPbI3 Perovskite.} \) Angewandte Chemie, 2016 , 128, 13658-13662	3.6	7
59	In situ gas/solid reaction for the formation of luminescent quantum confined CH3NH3PbBr3 perovskite planar film. <i>Chemical Communications</i> , 2016 , 52, 11080-3	5.8	18
58	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3103-11	6.4	154
57	Growth control of compact CH3NH3PbI3 thin films via enhanced solid-state precursor reaction for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9249-9256	13	118

56	Sn-doped hematite films as photoanodes for efficient photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6751-6755	13	43
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13.1 6

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6.4