

Shaik Mohammed Zakeeruddin

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240

papers

46,256

citations

87

h-index

214

g-index

250

ext. papers

52,392

ext. citations

14.7

avg, IF

7.63

L-index

#	Paper	IF	Citations
240	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <i>Science</i> , 2011 , 334, 629-34	33.3	5284
239	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. <i>Energy and Environmental Science</i> , 2016 , 9, 1989-1997	35.4	3740
238	Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. <i>Science</i> , 2016 , 354, 206-209	33.3	2628
237	Engineering of efficient panchromatic sensitizers for nanocrystalline TiO ₂ -based solar cells. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1613-24	16.4	2308
236	Efficient luminescent solar cells based on tailored mixed-cation perovskites. <i>Science Advances</i> , 2016 , 2, e1501170	14.3	1498
235	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater than 21%. <i>Nature Energy</i> , 2016 , 1,	62.3	1422
234	A vacuum flash-assisted solution process for high-efficiency large-area perovskite solar cells. <i>Science</i> , 2016 , 353, 58-62	33.3	1406
233	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. <i>Nature Materials</i> , 2003 , 2, 402-7	27	1387
232	Highly efficient light-harvesting ruthenium sensitizer for thin-film dye-sensitized solar cells. <i>ACS Nano</i> , 2009 , 3, 3103-9	16.7	1111
231	Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20. <i>Science</i> , 2017 , 358, 768-771	33.3	1030
230	Highly efficient planar perovskite solar cells through band alignment engineering. <i>Energy and Environmental Science</i> , 2015 , 8, 2928-2934	35.4	949
229	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid ammonium chlorides. <i>Nature Chemistry</i> , 2015 , 7, 703-11	17.6	898
228	Entropic stabilization of mixed A-cation ABX ₃ metal halide perovskites for high performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 656-662	35.4	882
227	Pseudo-halide anion engineering for FAPbI ₃ perovskite solar cells. <i>Nature</i> , 2021 , 592, 381-385	50.4	814
226	Dye-sensitized solar cells for efficient power generation under ambient lighting. <i>Nature Photonics</i> , 2017 , 11, 372-378	33.9	653
225	Enhanced electronic properties in mesoporous TiO ₂ via lithium doping for high-efficiency perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 10379	17.4	626
224	High-performance dye-sensitized solar cells based on solvent-free electrolytes produced from eutectic melts. <i>Nature Materials</i> , 2008 , 7, 626-30	27	581

223	Control of dark current in photoelectrochemical (TiO ₂ /I ⁻ /I ³⁻) and dye-sensitized solar cells. <i>Chemical Communications</i> , 2005 , 4351-3	5.8	538
222	High molar extinction coefficient heteroleptic ruthenium complexes for thin film dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4146-54	16.4	512
221	Ionic polarization-induced current-voltage hysteresis in CH ₃ NH ₃ PbX ₃ perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 10334	17.4	500
220	A high molar extinction coefficient sensitizer for stable dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2005 , 127, 808-9	16.4	482
219	An organic redox electrolyte to rival triiodide/iodide in dye-sensitized solar cells. <i>Nature Chemistry</i> , 2010 , 2, 385-9	17.6	474
218	Solvent-Free Ionic Liquid Electrolytes for Mesoscopic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 2187-2202	15.6	401
217	CoII(dbbip) ₂ Complex Rivals Tri-iodide/Iodide Redox Mediator in Dye-Sensitized Photovoltaic Cells. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10461-10464	3.4	376
216	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49	62.3	369
215	Molecular engineering of push-pull porphyrin dyes for highly efficient dye-sensitized solar cells: the role of benzene spacers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2973-7	16.4	369
214	Organic dye-sensitized ionic liquid based solar cells: remarkable enhancement in performance through molecular design of indoline sensitizers. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1923-7	16.4	368
213	Significant Improvement of Dye-Sensitized Solar Cell Performance by Small Structural Modification in π -Conjugated Donor-Acceptor Dyes. <i>Advanced Functional Materials</i> , 2012 , 22, 1291-1302	15.6	366
212	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22. <i>Science Advances</i> , 2019 , 5, eaaw2543	14.3	362
211	Predicting the Open-Circuit Voltage of CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Using Electroluminescence and Photovoltaic Quantum Efficiency Spectra: the Role of Radiative and Non-Radiative Recombination. <i>Advanced Energy Materials</i> , 2015 , 5, 1400812	21.8	358
210	A solvent-free, SeCN ⁻ /(SeCN) ₃ ⁻ based ionic liquid electrolyte for high-efficiency dye-sensitized nanocrystalline solar cells. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7164-5	16.4	336
209	Cyclopentadithiophene bridged donor-acceptor dyes achieve high power conversion efficiencies in dye-sensitized solar cells based on the tris-cobalt bipyridine redox couple. <i>ChemSusChem</i> , 2011 , 4, 591-4	8.3	307
208	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017 , 29, 1606806	24	276
207	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA)(FA)PbI Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14173-14180	16.4	260
206	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI perovskite solar cells. <i>Science</i> , 2020 , 370,	33.3	257

205	Efficient photosynthesis of carbon monoxide from CO ₂ using perovskite photovoltaics. <i>Nature Communications</i> , 2015 , 6, 7326	17.4	245
204	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. <i>Science Advances</i> , 2016 , 2, e1601156	14.3	238
203	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. <i>Chemical Science</i> , 2011 , 2, 949	9.4	233
202	Enhancing Efficiency of Perovskite Solar Cells via N-doped Graphene: Crystal Modification and Surface Passivation. <i>Advanced Materials</i> , 2016 , 28, 8681-8686	24	228
201	Efficient screen printed perovskite solar cells based on mesoscopic TiO ₂ /Al ₂ O ₃ /NiO/carbon architecture. <i>Nano Energy</i> , 2015 , 17, 171-179	17.1	225
200	A Stable Blue Photosensitizer for Color Palette of Dye-Sensitized Solar Cells Reaching 12.6% Efficiency. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2405-2408	16.4	221
199	Suppressing defects through the synergistic effect of a Lewis base and a Lewis acid for highly efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3480-3490	35.4	202
198	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. <i>Nano Energy</i> , 2017 , 41, 469-475	17.1	191
197	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. <i>Joule</i> , 2018 , 2, 1108-1117	27.8	189
196	Multifunctional molecular modulators for perovskite solar cells with over 20% efficiency and high operational stability. <i>Nature Communications</i> , 2018 , 9, 4482	17.4	189
195	Formation of Stable Mixed Guanidinium-Methylammonium Phases with Exceptionally Long Carrier Lifetimes for High-Efficiency Lead Iodide-Based Perovskite Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3345-3351	16.4	183
194	Stable, high-efficiency ionic-liquid-based mesoscopic dye-sensitized solar cells. <i>Small</i> , 2007 , 3, 2094-102	11	182
193	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. <i>Nature Communications</i> , 2017 , 8, 15390	17.4	181
192	Conformal quantum dot-SnO layers as electron transporters for efficient perovskite solar cells.. <i>Science</i> , 2022 , 375, 302-306	33.3	181
191	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 3008	17.4	178
190	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
189	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15087-15096	16.4	174
188	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH ₃ NH ₃ PbI ₃ Perovskite. <i>Advanced Energy Materials</i> , 2016 , 6, 1502472	21.8	171

187	Light Harvesting and Charge Recombination in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. <i>ACS Nano</i> , 2015 , 9, 4200-9	16.7	167
186	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. <i>Advanced Energy Materials</i> , 2016 , 6, 1600767	21.8	165
185	Cation Dynamics in Mixed-Cation (MA)(FA)PbI Hybrid Perovskites from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10055-10061	16.4	160
184	A Novel Dopant-Free Triphenylamine Based Molecular Butterfly-Hole-Transport Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600401	21.8	152
183	New Strategies for Defect Passivation in High-Efficiency Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903090	21.8	152
182	Novel p-dopant toward highly efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 2985-2992	35.4	149
181	High-Efficiency Polycrystalline Thin Film Tandem Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2676-81	6.4	147
180	Silolothiophene-linked triphenylamines as stable hole transporting materials for high efficiency perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 2946-2953	35.4	145
179	Perovskite Photovoltaics with Outstanding Performance Produced by Chemical Conversion of Bilayer Mesostructured Lead Halide/TiO ₂ Films. <i>Advanced Materials</i> , 2016 , 28, 2964-70	24	140
178	Enhanced Charge Collection with Passivation Layers in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 3966-72	24	140
177	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion-Jacobson Two-Dimensional Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 150-157	11.5	140
176	Cobalt Redox Mediators for Ruthenium-Based Dye-Sensitized Solar Cells: A Combined Impedance Spectroscopy and Near-IR Transmittance Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18847-18855 ^{3.8}	3.8	130
175	An efficient organogelator for ionic liquids to prepare stable quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2978-2983		125
174	Low band gap S,N-heteroacene-based oligothiophenes as hole-transporting and light absorbing materials for efficient perovskite-based solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 2981	35.4	119
173	A dopant-free spirobi[cyclopenta[2,1-b:3,4-b']dithiophene] based hole-transport material for efficient perovskite solar cells. <i>Materials Horizons</i> , 2015 , 2, 613-618	14.4	116
172	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15688-15694	16.4	115
171	Dye-Sensitized Solar Cells with Solvent-Free Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13775-13781	3.8	115
170	Selective C-C Coupling in Carbon Dioxide Electroreduction via Efficient Spillover of Intermediates As Supported by Operando Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18704-18714	16.4	113

- 169 Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. *Energy and Environmental Science*, **2018**, 11, 1779-1787 35.4 112
- 168 Air Processed Inkjet Infiltrated Carbon Based Printed Perovskite Solar Cells with High Stability and Reproducibility. *Advanced Materials Technologies*, **2017**, 2, 1600183 6.8 109
- 167 Room-Temperature Formation of Highly Crystalline Multication Perovskites for Efficient, Low-Cost Solar Cells. *Advanced Materials*, **2017**, 29, 1606258 24 106
- 166 Phase Segregation in Potassium-Doped Lead Halide Perovskites from K Solid-State NMR at 21.1 T. *Journal of the American Chemical Society*, **2018**, 140, 7232-7238 16.4 106
- 165 Identifying Fundamental Limitations in Halide Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 2439-2445 103
- 164 The Role of Rubidium in Multiple-Cation-Based High-Efficiency Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1701077 24 102
- 163 Molecular Engineering of Potent Sensitizers for Very Efficient Light Harvesting in Thin-Film Solid-State Dye-Sensitized Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 10742-5 16.4 100
- 162 Mesoscopic Oxide Double Layer as Electron Specific Contact for Highly Efficient and UV Stable Perovskite Photovoltaics. *Nano Letters*, **2018**, 18, 2428-2434 11.5 96
- 161 Strong Photocurrent Amplification in Perovskite Solar Cells with a Porous TiO₂ Blocking Layer under Reverse Bias. *Journal of Physical Chemistry Letters*, **2014**, 5, 3931-6 6.4 96
- 160 Molecular Engineering of PushPull Porphyrin Dyes for Highly Efficient Dye-Sensitized Solar Cells: The Role of Benzene Spacers. *Angewandte Chemie*, **2014**, 126, 3017-3021 3.6 95
- 159 ADA-type S,N-heteropentacene-based hole transport materials for dopant-free perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 17738-17746 13 94
- 158 Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 1145-1152 20.1 94
- 157 Boosting the Efficiency of Perovskite Solar Cells with CsBr-Modified Mesoporous TiO₂ Beads as Electron-Selective Contact. *Advanced Functional Materials*, **2018**, 28, 1705763 15.6 93
- 156 New pyrido[3,4-b]pyrazine-based sensitizers for efficient and stable dye-sensitized solar cells. *Chemical Science*, **2014**, 5, 206-214 9.4 93
- 155 Application of ionic liquids containing tricyanomethanide [C(CN)₃]- or tetracyanoborate [B(CN)₄]- anions in dye-sensitized solar cells. *Inorganic Chemistry*, **2011**, 50, 11561-7 5.1 88
- 154 Intrinsic and Extrinsic Stability of Formamidinium Lead Bromide Perovskite Solar Cells Yielding High Photovoltage. *Nano Letters*, **2016**, 16, 7155-7162 11.5 87
- 153 Adamantanes Enhance the Photovoltaic Performance and Operational Stability of Perovskite Solar Cells by Effective Mitigation of Interfacial Defect States. *Advanced Energy Materials*, **2018**, 8, 1800275 21.8 86
- 152 A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 16330-16334 13 78

151	Engineering of Perovskite Materials Based on Formamidinium and Cesium Hybridization for High-Efficiency Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 1620-1627	9.6	77
150	Impact of a Mesoporous Titania-Perovskite Interface on the Performance of Hybrid Organic-Inorganic Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3264-9	6.4	75
149	Dopant-Free Donor (D)-ED-ED Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2578-2585	8.3	75
148	High performance carbon-based printed perovskite solar cells with humidity assisted thermal treatment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12060-12067	13	74
147	Atomic Layer Deposition of ZnO on CuO Enables Selective and Efficient Electroreduction of Carbon Dioxide to Liquid Fuels. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15036-15040	16.4	73
146	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3231-3237	16.4	73
145	Crown Ether Modulation Enables over 23% Efficient Formamidinium-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19980-19991	16.4	72
144	Supramolecular Engineering for Formamidinium-Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-State NMR Spectroscopy. <i>Advanced Energy Materials</i> , 2019 , 9, 1900284	21.8	71
143	High efficiency solid-state sensitized heterojunction photovoltaic device. <i>Nano Today</i> , 2010 , 5, 169-174	17.9	69
142	Long term stability of air processed inkjet infiltrated carbon-based printed perovskite solar cells under intense ultra-violet light soaking. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4797-4802	13	67
141	Enhanced-Light-Harvesting Amphiphilic Ruthenium Dye for Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 1821-1826	15.6	67
140	A molecular photosensitizer achieves a V of 1.24 V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. <i>Nature Communications</i> , 2021 , 12, 1777	17.4	67
139	Guanidinium-Assisted Surface Matrix Engineering for Highly Efficient Perovskite Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2020 , 32, e2001906	24	67
138	Efficient stable graphene-based perovskite solar cells with high flexibility in device assembling via modular architecture design. <i>Energy and Environmental Science</i> , 2019 , 12, 3585-3594	35.4	65
137	Direct light-induced polymerization of cobalt-based redox shuttles: an ultrafast way towards stable dye-sensitized solar cells. <i>Chemical Communications</i> , 2015 , 51, 16308-11	5.8	63
136	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17659-17669	16.4	63
135	Stable and Efficient Organic Dye-Sensitized Solar Cell Based on Ionic Liquid Electrolyte. <i>Joule</i> , 2018 , 2, 2145-2153	27.8	63
134	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. <i>Chemistry of Materials</i> , 2017 , 29, 587-594	9.6	60

133	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. <i>ACS Energy Letters</i> , 2020 , 5, 2223-2230	20.1	60
132	High performance dye-sensitized solar cells with inkjet printed ionic liquid electrolyte. <i>Nano Energy</i> , 2015 , 17, 206-215	17.1	58
131	Novel Blue Organic Dye for Dye-Sensitized Solar Cells Achieving High Efficiency in Cobalt-Based Electrolytes and by Co-Sensitization. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32797-32804	9.5	56
130	Reduction in the Interfacial Trap Density of Mechanochemically Synthesized MAPbI ₃ . <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28418-28425	9.5	55
129	Hydrothermally processed CuCrO ₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20327-20337	13.3	55
128	Efficient and stable inverted perovskite solar cells with very high fill factors via incorporation of star-shaped polymer. <i>Science Advances</i> , 2021 , 7,	14.3	54
127	Metal Coordination Complexes as Redox Mediators in Regenerative Dye-Sensitized Solar Cells. <i>Inorganics</i> , 2019 , 7, 30	2.9	53
126	Low-Cost and Highly Efficient Carbon-Based Perovskite Solar Cells Exhibiting Excellent Long-Term Operational and UV Stability. <i>Small</i> , 2019 , 15, e1904746	11	53
125	High-Efficiency Perovskite Solar Cells Employing a S,N-Heteropentacene-based D-A Hole-Transport Material. <i>ChemSusChem</i> , 2016 , 9, 433-8	8.3	53
124	A durable SWCNT/PET polymer foil based metal free counter electrode for flexible dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19609-19615	13	52
123	Porphyrin Sensitizers Bearing a Pyridine-Type Anchoring Group for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14975-82	9.5	51
122	Dye-sensitized solar cells with inkjet-printed dyes. <i>Energy and Environmental Science</i> , 2016 , 9, 2453-2462	35.4	51
121	Compositional and Interface Engineering of Organic-Inorganic Lead Halide Perovskite Solar Cells. <i>IScience</i> , 2020 , 23, 101359	6.1	50
120	Tridentate cobalt complexes as alternative redox couples for high-efficiency dye-sensitized solar cells. <i>Chemical Science</i> , 2013 , 4, 454-459	9.4	50
119	Black phosphorus quantum dots in inorganic perovskite thin films for efficient photovoltaic application. <i>Science Advances</i> , 2020 , 6, eaay5661	14.3	49
118	Photoinduced Interfacial Electron Injection Dynamics in Dye-Sensitized Solar Cells under Photovoltaic Operating Conditions. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3786-90	6.4	49
117	Elucidation of Charge Recombination and Accumulation Mechanism in Mixed Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15149-15154	3.8	49
116	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11428-11433	16.4	48

115	Light scattering enhancement from sub-micrometer cavities in the photoanode for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16201		48
114	Doping and phase segregation in Mn ²⁺ - and Co ²⁺ -doped lead halide perovskites from ¹³³ Cs and ¹ H NMR relaxation enhancement. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2326-2333	13	48
113	Effect of Extended π -Conjugation of the Donor Structure of Organic Dye on the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16486-16493	2.8	47
112	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706073	15.6	46
111	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021 , 5, 1587-1601	27.8	45
110	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell Silicon Photovoltaic Hybrid Concentrator System. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 581-585	6.4	44
109	Poly(ethylene glycol)-[60]Fullerene-Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. <i>ChemSusChem</i> , 2018 , 11, 1032-1039	8.3	43
108	Supramolecular Modulation of Hybrid Perovskite Solar Cells via Bifunctional Halogen Bonding Revealed by Two-Dimensional Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1645-1654	16.4	43
107	Electron-Affinity-Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14125-14128	16.4	42
106	Guanine-Stabilized Formamidinium Lead Iodide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4691-4697	16.4	40
105	Modulation of perovskite crystallization processes towards highly efficient and stable perovskite solar cells with MXene quantum dot-modified SnO ₂ . <i>Energy and Environmental Science</i> , 2021 , 14, 3447-3454	25.4	38
104	Ionic Liquid-Toluene Composite Electrolytes for High-Performance and Stable Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301235	21.8	37
103	Heteroleptic ruthenium complex containing substituted triphenylamine hole-transport unit as sensitizer for stable dye-sensitized solar cell. <i>Nano Energy</i> , 2012 , 1, 6-12	17.1	36
102	Influence of structural variations in push-pull zinc porphyrins on photovoltaic performance of dye-sensitized solar cells. <i>ChemSusChem</i> , 2014 , 7, 1107-13	8.3	35
101	Interfacial Passivation Engineering of Perovskite Solar Cells with Fill Factor over 82% and Outstanding Operational Stability on n-i-p Architecture. <i>ACS Energy Letters</i> , 2021 , 6, 3916-3923	20.1	35
100	Effect of Coordination Sphere Geometry of Copper Redox Mediators on Regeneration and Recombination Behavior in Dye-Sensitized Solar Cell Applications. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4950-4962	6.1	34
99	Effect of Cs-Incorporated NiO on the Performance of Perovskite Solar Cells. <i>ACS Omega</i> , 2017 , 2, 9074-9079	9.9	34
98	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2003428	15.6	34

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