

Dai-Bin Kuang

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
209	Ionic liquids for the convenient synthesis of functional nanoparticles and other inorganic nanostructures. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4988-92	16.4	1054
208	Correlation between Photovoltaic Performance and Impedance Spectroscopy of Dye-Sensitized Solar Cells Based on Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6550-6560	3.8	821
207	A CsPbBr Perovskite Quantum Dot/Graphene Oxide Composite for Photocatalytic CO Reduction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5660-5663	16.4	665
206	Application of highly ordered TiO ₂ nanotube arrays in flexible dye-sensitized solar cells. <i>ACS Nano</i> , 2008 , 2, 1113-6	16.7	590
205	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
204	Stable mesoscopic dye-sensitized solar cells based on tetracyanoborate ionic liquid electrolyte. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7732-3	16.4	408
203	Reduced Graphene Oxide-Hierarchical ZnO Hollow Sphere Composites with Enhanced Photocurrent and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8111-8117	3.8	378
202	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
201	Novel porous molybdenum tungsten phosphide hybrid nanosheets on carbon cloth for efficient hydrogen evolution. <i>Energy and Environmental Science</i> , 2016 , 9, 1468-1475	35.4	356
200	Surfactant-Assisted Growth of Novel PbS Dendritic Nanostructures via Facile Hydrothermal Process. <i>Advanced Materials</i> , 2003 , 15, 1747-1750	24	351
199	Oriented hierarchical single crystalline anatase TiO ₂ nanowire arrays on Ti-foil substrate for efficient flexible dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 5750-5757	35.4	335
198	High-Efficiency and Stable Mesoscopic Dye-Sensitized Solar Cells Based on a High Molar Extinction Coefficient Ruthenium Sensitizer and Nonvolatile Electrolyte. <i>Advanced Materials</i> , 2007 , 19, 1133-1137	24	315
197	Synthesis and Photocatalytic Application of Stable Lead-Free Cs AgBiBr Perovskite Nanocrystals. <i>Small</i> , 2018 , 14, e1703762	11	288
196	Hierarchical porous silica materials with a trimodal pore system using surfactant templates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10534-5	16.4	287
195	Tri-functional hierarchical TiO ₂ spheres consisting of anatase nanorods and nanoparticles for high efficiency dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 4079	35.4	277
194	Core@Shell CsPbBr ₃ @Zeolitic Imidazolate Framework Nanocomposite for Efficient Photocatalytic CO ₂ Reduction. <i>ACS Energy Letters</i> , 2018 , 3, 2656-2662	20.1	277
193	Hydrothermal fabrication of hierarchically anatase TiO ₂ nanowire arrays on FTO glass for dye-sensitized solar cells. <i>Scientific Reports</i> , 2013 , 3, 1352	4.9	272

192	Bifacial dye-sensitized solar cells based on an ionic liquid electrolyte. <i>Nature Photonics</i> , 2008 , 2, 693-698	33.9	258
191	Dynamic study of highly efficient CdS/CdSe quantum dot-sensitized solar cells fabricated by electrodeposition. <i>ACS Nano</i> , 2011 , 5, 9494-500	16.7	238
190	Multistack integration of three-dimensional hyperbranched anatase titania architectures for high-efficiency dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6437-45	16.4	210
189	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5277-5281	16.4	201
188	Co-sensitization of organic dyes for efficient ionic liquid electrolyte-based dye-sensitized solar cells. <i>Langmuir</i> , 2007 , 23, 10906-9	4	189
187	Ordered Crystalline TiO ₂ Nanotube Arrays on Transparent FTO Glass for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15228-15233	3.8	186
186	In Situ Growth of 120 cm CH ₃ NH ₃ PbBr Perovskite Crystal Film on FTO Glass for Narrowband-Photodetectors. <i>Advanced Materials</i> , 2017 , 29, 1602639	24	182
185	Stable, high-efficiency ionic-liquid-based mesoscopic dye-sensitized solar cells. <i>Small</i> , 2007 , 3, 2094-102	11	182
184	In Situ Construction of a CsSnI ₃ Perovskite Nanocrystal/SnS Nanosheet Heterojunction with Boosted Interfacial Charge Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13434-13441	16.4	168
183	Principles of hierarchical meso- and macropore architectures by liquid crystalline and polymer colloid templating. <i>Langmuir</i> , 2006 , 22, 2311-22	4	166
182	Improving the Extraction of Photogenerated Electrons with SnO ₂ Nanocolloids for Efficient Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 7200-7207	15.6	163
181	Dimension engineering on cesium lead iodide for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2066-2072	13	157
180	Ultra-long anatase TiO ₂ nanowire arrays with multi-layered configuration on FTO glass for high-efficiency dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 644-649	35.4	155
179	Fabrication of Novel Hierarchical Ni(OH) ₂ and NiO Microspheres via an Easy Hydrothermal Process. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5508-5513	3.8	155
178	Ion coordinating sensitizer for high efficiency mesoscopic dye-sensitized solar cells: influence of lithium ions on the photovoltaic performance of liquid and solid-state cells. <i>Nano Letters</i> , 2006 , 6, 769-73	11.5	154
177	Effect of TiO ₂ morphology on photovoltaic performance of dye-sensitized solar cells: nanoparticles, nanofibers, hierarchical spheres and ellipsoid spheres. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7910		148
176	High Molar Extinction Coefficient Ion-Coordinating Ruthenium Sensitizer for Efficient and Stable Mesoscopic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2007 , 17, 154-160	15.6	143
175	Achieving high-performance planar perovskite solar cell with Nb-doped TiO ₂ compact layer by enhanced electron injection and efficient charge extraction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5647-5653	13	139

174	Maximizing omnidirectional light harvesting in metal oxide hyperbranched array architectures. <i>Nature Communications</i> , 2014 , 5, 3968	17.4	138
173	Metal-free organic dyes derived from triphenylethylene for dye-sensitized solar cells: tuning of the performance by phenothiazine and carbazole. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8994		138
172	All-Solid-State Z-Scheme α -Fe ₂ O ₃ /Amine-RGO/CsPbBr ₃ Hybrids for Visible-Light-Driven Photocatalytic CO ₂ Reduction. <i>CheM</i> , 2020 , 6, 766-780	16.2	135
171	Highly efficient CdTe/CdS quantum dot sensitized solar cells fabricated by a one-step linker assisted chemical bath deposition. <i>Chemical Science</i> , 2011 , 2, 1396	9.4	134
170	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15475		127
169	Organic dye bearing asymmetric double donor-acceptor chains for dye-sensitized solar cells. <i>Journal of Organic Chemistry</i> , 2011 , 76, 8015-21	4.2	127
168	Intrinsic Self-Trapped Emission in 0D Lead-Free (C H N) In Br Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15435-15440	16.4	126
167	Influence of ionic liquids bearing functional groups in dye-sensitized solar cells. <i>Inorganic Chemistry</i> , 2006 , 45, 1585-90	5.1	126
166	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
165	Self-supported NiMoP ₂ nanowires on carbon cloth as an efficient and durable electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7191-7199	13	122
164	Atomically Thin Defect-Rich Fe ₃ N ₂ /NiO Hybrid Nanosheets as High Efficient Electrocatalyst for Water Oxidation. <i>Advanced Functional Materials</i> , 2018 , 28, 1802463	15.6	122
163	Fabrication of boehmite AlOOH and γ -Al ₂ O ₃ nanotubes via a soft solution route. <i>Journal of Materials Chemistry</i> , 2003 , 13, 660-662		121
162	Hierarchical oriented anatase TiO ₂ nanostructure arrays on flexible substrate for efficient dye-sensitized solar cells. <i>Scientific Reports</i> , 2013 , 3, 1892	4.9	105
161	Sonochemical preparation of hierarchical ZnO hollow spheres for efficient dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2010 , 16, 8757-61	4.8	105
160	A micron-scale laminar MAPbBr ₃ single crystal for an efficient and stable perovskite solar cell. <i>Chemical Communications</i> , 2017 , 53, 5163-5166	5.8	102
159	All-Inorganic Lead-Free Cs ₂ PdX ₆ (X = Br, I) Perovskite Nanocrystals with Single Unit Cell Thickness and High Stability. <i>ACS Energy Letters</i> , 2018 , 3, 2613-2619	20.1	102
158	A supercooled imidazolium iodide ionic liquid as a low-viscosity electrolyte for dye-sensitized solar cells. <i>Inorganic Chemistry</i> , 2006 , 45, 10407-9	5.1	96
157	Dye-sensitized solar cells based on a double layered TiO ₂ photoanode consisting of hierarchical nanowire arrays and nanoparticles with greatly improved photovoltaic performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18057		94

156	Enhanced Solar-Driven Gaseous CO ₂ Conversion by CsPbBr ₃ Nanocrystal/Pd Nanosheet Schottky-Junction Photocatalyst. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5083-5089	6.1	87
155	A formamidiniummethylammonium lead iodide perovskite single crystal exhibiting exceptional optoelectronic properties and long-term stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19431-19438	13	87
154	Z-Scheme 2D/2D Heterojunction of CsPbBr ₃ /Bi ₂ WO ₆ for Improved Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2020 , 30, 2004293	15.6	87
153	A double layered TiO ₂ photoanode consisting of hierarchical flowers and nanoparticles for high-efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 4362-9	7.7	86
152	CdS/CdSe co-sensitized TiO ₂ nanowire-coated hollow Spheres exceeding 6% photovoltaic performance. <i>Nano Energy</i> , 2015 , 11, 621-630	17.1	85
151	Brick and Mortar Strategy for the Formation of Highly Crystalline Mesoporous Titania Films from Nanocrystalline Building Blocks. <i>Chemistry of Materials</i> , 2009 , 21, 1260-1265	9.6	85
150	Constructing 3D branched nanowire coated macroporous metal oxide electrodes with homogeneous or heterogeneous compositions for efficient solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4816-21	16.4	84
149	Hierarchical tin oxide octahedra for highly efficient dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2010 , 16, 8620-5	4.8	84
148	Amorphous-TiO ₂ -Encapsulated CsPbBr ₃ Nanocrystal Composite Photocatalyst with Enhanced Charge Separation and CO ₂ Fixation. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801015	4.6	84
147	High performance and reduced charge recombination of CdSe/CdS quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12058		83
146	Electrospun hierarchical TiO ₂ nanorods with high porosity for efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9205-11	9.5	82
145	Preparation of inorganic salts (CaCO ₃ , BaCO ₃ , CaSO ₄) nanowires in the Triton X-100/cyclohexane/water reverse micelles. <i>Journal of Crystal Growth</i> , 2002 , 244, 379-383	1.6	82
144	Toward High Performance Photoelectrochemical Water Oxidation: Combined Effects of Ultrafine Cobalt Iron Oxide Nanoparticle. <i>Advanced Functional Materials</i> , 2016 , 26, 4414-4421	15.6	81
143	Dithienopyrrolbenzothiadiazole-based organic dyes for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15365-15376	13	80
142	Multifunctional Phosphorus-Containing Lewis Acid and Base Passivation Enabling Efficient and Moisture-Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1910710	15.6	78
141	Water Splitting: Achieving Highly Efficient Photoelectrochemical Water Oxidation with a TiCl ₄ Treated 3D Antimony-Doped SnO ₂ Macropore/Branched Fe ₂ O ₃ Nanorod Heterojunction Photoanode (Adv. Sci. 7/2015). <i>Advanced Science</i> , 2015 , 2,	13.6	78
140	Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. <i>Chemical Society Reviews</i> , 2020 , 49, 354-381	58.5	78
139	Hierarchical CsPbBr ₃ nanocrystal-decorated ZnO nanowire/macroporous graphene hybrids for enhancing charge separation and photocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13762-13769	13	77

138	CdS/CdSe co-sensitized vertically aligned anatase TiO ₂ nanowire arrays for efficient solar cells. <i>Nano Energy</i> , 2014 , 8, 1-8	17.1	77
137	Three-dimensional TiO ₂ /ZnO hybrid array as a heterostructured anode for efficient quantum-dot-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5199-205	9.5	75
136	Controllable Electrochemical Synthesis of Hierarchical ZnO Nanostructures on FTO Glass. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13574-13582	3.8	75
135	Highly efficient and stable organic sensitizers with duplex starburst triphenylamine and carbazole donors for liquid and quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8988-8994	13	72
134	Trilateral π -conjugation extensions of phenothiazine-based dyes enhance the photovoltaic performance of the dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 124, 63-71	4.6	71
133	A multifunctional poly-N-vinylcarbazole interlayer in perovskite solar cells for high stability and efficiency: a test with new triazatruxene-based hole transporting materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1913-1918	13	69
132	Phenothiazine-based dyes with bilateral extension of π -conjugation for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2013 , 96, 722-731	4.6	68
131	High-performance dye-sensitized solar cells based on hierarchical yolk-shell anatase TiO ₂ beads. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1627-1633		66
130	Effect of the linkage location in double branched organic dyes on the photovoltaic performance of DSSCs. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1333-1344	13	64
129	All-Inorganic Lead-Free Heterometallic Cs ₄ MnBi ₂ Cl ₁₂ Perovskite Single Crystal with Highly Efficient Orange Emission. <i>Matter</i> , 2020 , 3, 892-903	12.7	63
128	All-solid-state electrolytes consisting of ionic liquid and carbon black for efficient dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 216, 8-14	4.7	63
127	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications. <i>Solar Rrl</i> , 2019 , 3, 1800294	7.1	62
126	Hydrothermal fabrication of hierarchically macroporous Zn ₂ SnO ₄ for highly efficient dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 5940-8	7.7	61
125	Extraordinarily efficient conduction in a redox-active ionic liquid. <i>ChemPhysChem</i> , 2011 , 12, 145-9	3.2	61
124	Dextran based highly conductive hydrogel polysulfide electrolyte for efficient quasi-solid-state quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 92, 117-123	6.7	57
123	Effect of Hydrocarbon Chain Length of Disubstituted Triphenyl-amine-Based Organic Dyes on Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22002-22008	3.8	57
122	Macroporous SnO ₂ synthesized via a template-assisted reflux process for efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5105-11	9.5	56
121	Self-assembly of 2D Borromean networks through hydrogen-bonding recognition. <i>Chemical Communications</i> , 2009 , 2387-9	5.8	56

120	Enhanced On/Off Ratio Photodetectors Based on Lead-Free Cs ₃ Bi ₂ I ₉ Single Crystal Thin Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1909701	15.6	55
119	Achieving Highly Efficient Photoelectrochemical Water Oxidation with a TiCl ₄ Treated 3D Antimony-Doped SnO ₂ Macropore/Branched Fe ₃ O ₄ Nanorod Heterojunction Photoanode. <i>Advanced Science</i> , 2015 , 2, 1500049	13.6	54
118	Novel dithieno[3,2-b:2',3'-d]pyrrole-based organic dyes with high molar extinction coefficient for dye-sensitized solar cells. <i>Organic Electronics</i> , 2013 , 14, 2071-2081	3.5	52
117	A new ion-coordinating ruthenium sensitizer for mesoscopic dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2008 , 361, 699-706	2.7	52
116	Large-Area Synthesis of a NiP Honeycomb Electrode for Highly Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32812-32819	9.5	51
115	Synthesis of hierarchical SnO ₂ octahedra with tailorable size and application in dye-sensitized solar cells with enhanced power conversion efficiency. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21495		51
114	Conformal coating of ultrathin metal-organic framework on semiconductor electrode for boosted photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 9-17	21.8	51
113	CdS/CdSe quantum dot shell decorated vertical ZnO nanowire arrays by spin-coating-based SILAR for photoelectrochemical cells and quantum-dot-sensitized solar cells. <i>ChemPhysChem</i> , 2012 , 13, 1435-9 ^{3.2}		50
112	A novel TCO- and Pt-free counter electrode for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1724-1730	13	50
111	Enhanced efficacy of defect passivation and charge extraction for efficient perovskite photovoltaics with a small open circuit voltage loss. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9025-9033 ¹³		49
110	Morphology-controlled cactus-like branched anatase TiO ₂ arrays with high light-harvesting efficiency for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 260, 6-11	8.9	49
109	Performance of dye-sensitized solar cells based on novel sensitizers bearing asymmetric double D _{3h} chains with arylamines as donors. <i>Dyes and Pigments</i> , 2012 , 94, 481-489	4.6	48
108	Three-dimensional hyperbranched TiO ₂ /ZnO heterostructured arrays for efficient quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14826-14832	13	44
107	A family of vertically aligned nanowires with smooth, hierarchical and hyperbranched architectures for efficient energy conversion. <i>Nano Energy</i> , 2014 , 9, 15-24	17.1	44
106	Hydrothermal fabrication of quasi-one-dimensional single-crystalline anatase TiO ₂ nanostructures on FTO glass and their applications in dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2011 , 17, 1352-7	4.8	44
105	The Electronic Role of the TiO ₂ Light-Scattering Layer in Dye-Sensitized Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 319-327	3.1	44
104	A Review of Diverse Halide Perovskite Morphologies for Efficient Optoelectronic Applications. <i>Small Methods</i> , 2020 , 4, 1900662	12.8	44
103	CsPbBr ₃ Nanocrystal/MO (M = Si, Ti, Sn) Composites: Insight into Charge-Carrier Dynamics and Photoelectrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42301-42309	9.5	44

102	Trilayered Photoanode of TiO ₂ Nanoparticles on a 1D/BD Nanostructured TiO ₂ -Grown Flexible Ti Substrate for High-Efficiency (9.1%) Dye-Sensitized Solar Cells with Unprecedentedly High Photocurrent Density. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16426-16432	3.8	43
101	Inorganic cesium lead halide CsPbX ₃ nanowires for long-term stable solar cells. <i>Science China Materials</i> , 2017 , 60, 285-294	7.1	42
100	Ordered macroporous CH ₃ NH ₃ PbI ₃ perovskite semitransparent film for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15662-15669	13	42
99	In situ formation of zinc ferrite modified Al-doped ZnO nanowire arrays for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5124-5129	13	42
98	The top-down synthesis of single-layered CsCuSbCl halide perovskite nanocrystals for photoelectrochemical application. <i>Nanoscale</i> , 2019 , 11, 5180-5187	7.7	42
97	Synthesis of phenothiazine-based di-anchoring dyes containing fluorene linker and their photovoltaic performance. <i>Dyes and Pigments</i> , 2015 , 114, 47-54	4.6	41
96	In Situ Photosynthesis of an MAPbI ₃ /CoP Hybrid Heterojunction for Efficient Photocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2020 , 30, 2001478	15.6	41
95	Hierarchical ZnO rod-in-tube nano-architecture arrays produced via a two-step hydrothermal and ultrasonication process. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8709		41
94	Recent advances in hierarchical three-dimensional titanium dioxide nanotree arrays for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12699-12717	13	40
93	Template-free solvothermal fabrication of hierarchical TiO ₂ hollow microspheres for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13274	13	40
92	Hierarchical macroporous Zn ₂ SnO ₄ -ZnO nanorod composite photoelectrodes for efficient CdS/CdSe quantum dot co-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11865-11875	9.5	39
91	Asymmetric 3D Hole-Transporting Materials Based on Triphenylethylene for Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 5431-5441	9.6	38
90	A novel metal-organic gel based electrolyte for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15406	13	38
89	Hierarchical Zn ₂ SnO ₄ nanosheets consisting of nanoparticles for efficient dye-sensitized solar cells. <i>Nano Energy</i> , 2013 , 2, 1287-1293	17.1	38
88	Effect of polyphenyl-substituted ethylene end-capped groups in metal-free organic dyes on performance of dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 7788	3.7	38
87	Maze-Like Halide Perovskite Films for Efficient Electron Transport Layer-Free Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800268	7.1	38
86	Hierarchical TiO ₂ flowers built from TiO ₂ nanotubes for efficient Pt-free based flexible dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13175-9	3.6	37
85	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie</i> , 2019 , 131, 5331-5335	3.6	36

84	Recent advances in hierarchical macroporous composite structures for photoelectric conversion. <i>Energy and Environmental Science</i> , 2014 , 7, 3887-3901	35.4	34
83	Spontaneous surface/interface ligand-anchored functionalization for extremely high fill factor over 86% in perovskite solar cells. <i>Nano Energy</i> , 2020 , 75, 104929	17.1	33
82	Stable dye-sensitized solar cells based on organic chromophores and ionic liquid electrolyte. <i>Solar Energy</i> , 2011 , 85, 1189-1194	6.8	33
81	Immobilizing Re(CO) ₃ Br(dcbpy) Complex on CsPbBr ₃ Nanocrystal for Boosted Charge Separation and Photocatalytic CO ₂ Reduction. <i>Solar Rrl</i> , 2020 , 4, 1900365	7.1	33
80	An Overview for Zero-Dimensional Broadband Emissive Metal-Halide Single Crystals. <i>Advanced Optical Materials</i> , 2021 , 9, 2100544	8.1	33
79	Facile fabrication of hierarchical SnO(2) microspheres film on transparent FTO glass. <i>Inorganic Chemistry</i> , 2010 , 49, 1679-86	5.1	32
78	Intrinsic Self-Trapped Emission in 0D Lead-Free (C ₄ H ₁₄ N ₂) ₂ In ₂ Br ₁₀ Single Crystal. <i>Angewandte Chemie</i> , 2019 , 131, 15581-15586	3.6	31
77	Impact of hydroxy and octyloxy substituents of phenothiazine based dyes on the photovoltaic performance. <i>Dyes and Pigments</i> , 2013 , 99, 299-307	4.6	31
76	Influence of spatial arrangements of spacer and acceptor of phenothiazine based dyes on the performance of dye-sensitized solar cells. <i>Organic Electronics</i> , 2013 , 14, 2662-2672	3.5	31
75	Novel organic dyes incorporating a carbazole or dendritic 3,6-diiodocarbazole unit for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2014 , 100, 269-277	4.6	30
74	Large-grained perovskite films via FA x MA 1-x Pb(I x Br 1-x) 3 single crystal precursor for efficient solar cells. <i>Nano Energy</i> , 2017 , 34, 264-270	17.1	29
73	Anti-recombination organic dyes containing dendritic triphenylamine moieties for high open-circuit voltage of DSSCs. <i>Dyes and Pigments</i> , 2013 , 99, 74-81	4.6	29
72	Iron-assisted engineering of molybdenum phosphide nanowires on carbon cloth for efficient hydrogen evolution in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22790-22796	13	27
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