Dai-Bin Kuang

List of Publications by Year in Descending Order

209 papers	18,607 citations	74 h-index	132 g-index
218 ext. papers	20,797 ext. citations	10.8 avg, IF	7.04 L-index

#	Paper	IF	Citations
209	Cooperative Effects of Dopant-Free Hole-Transporting Materials and Polycarbonate Film for Sustainable Perovskite Solar Cells. *Chemical Engineering Journal*, **2022**, 437, 135197	14.7	2
208	Self-Assembled Lead-Free Double Perovskite-MXene Heterostructure with Efficient Charge Separation for Photocatalytic CO2 Reduction. *Applied Catalysis B: Environmental*, **2022**, 121358	21.8	6
207	Large-scale planar and spherical light-emitting diodes based on arrays of perovskite quantum wires. *Nature Photonics*, **2022**, 16, 284-290	33.9	4
206	Constructing a Cs3Sb2Br9/g-C3N4 Hybrid for Photocatalytic Aromatic C(sp3)?H Bond Activation. *Solar Rrl*, **2021**, 5, 2100559	7.1	3
205	An Overview for Zero-Dimensional Broadband Emissive Metal-Halide Single Crystals. *Advanced Optical Materials*, **2021**, 9, 2100544	8.1	33
204	Activation of Self-Trapped Emission in Stable Bismuth-Halide Perovskite by Suppressing Strong Exciton□Phonon Coupling. *Advanced Functional Materials*, **2021**, 31, 2102654	15.6	21
203	Blade-coating Perovskite Films with Diverse Compositions for Efficient Photovoltaics. *Energy and Environmental Materials*, **2021**, 4, 277-283	13	15
202	Simple hole-transporting materials containing twin-carbazole moiety and unconjugated flexible linker for efficient and stable perovskite solar cells. *Chemical Engineering Journal*, **2021**, 405, 126434	14.7	11
201	Surface passivated halide perovskite single-crystal for efficient photoelectrochemical synthesis of dimethoxydihydrofuran. *Nature Communications*, **2021**, 12, 1202	17.4	16
200	Plasmonic CsPbBr3□Au nanocomposite for excitation wavelength dependent photocatalytic CO2 reduction. *Journal of Energy Chemistry*, **2021**, 53, 309-315	12	25
199	In Situ Construction of Direct Z-Scheme CsxWO3/CsPbBr3 Heterojunctions via Cosharing Cs Atom. *Solar Rrl*, **2021**, 5, 2100036	7.1	2
198	Indium-antimony-halide single crystals for high-efficiency white-light emission and anti-counterfeiting. *Science Advances*, **2021**, 7,	14.3	24
197	All-Inorganic Lead-Free Heterometallic Cs4MnBi2Cl12 Perovskite Single Crystal with Highly Efficient Orange Emission. *Matter*, **2020**, 3, 892-903	12.7	63
196	Spontaneous surface/interface ligand-anchored functionalization for extremely high fill factor over 86% in perovskite solar cells. *Nano Energy*, **2020**, 75, 104929	17.1	33
195	In Situ Photosynthesis of an MAPbI3/CoP Hybrid Heterojunction for Efficient Photocatalytic Hydrogen Evolution. *Advanced Functional Materials*, **2020**, 30, 2001478	15.6	41
194	Optoelectronic Devices: The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices (Adv. Energy Mater. 7/2020). *Advanced Energy Materials*, **2020**, 10, 2070029	21.8	
193	All-Solid-State Z-Scheme □Fe2O3/Amine-RGO/CsPbBr3 Hybrids for Visible-Light-Driven Photocatalytic CO2 Reduction. *CheM*, **2020**, 6, 766-780	16.2	135

192	Solvent selection and Pt decoration towards enhanced photocatalytic CO2 reduction over CsPbBr3 perovskite single crystals. *Sustainable Energy and Fuels*, **2020**, 4, 2249-2255	5.8	27
191	Multifunctional Phosphorus-Containing Lewis Acid and Base Passivation Enabling Efficient and Moisture-Stable Perovskite Solar Cells. *Advanced Functional Materials*, **2020**, 30, 1910710	15.6	78
190	Coordination disk-type nano-Saturn complexes. *Chemical Communications*, **2020**, 56, 3325-3328	5.8	6
189	Enhanced On□Off Ratio Photodetectors Based on Lead-Free Cs3Bi2I9 Single Crystal Thin Films. *Advanced Functional Materials*, **2020**, 30, 1909701	15.6	55
188	Tetraphenylbutadiene-Based Symmetric 3D Hole-Transporting Materials for Perovskite Solar Cells: A Trial Trade-off between Charge Mobility and Film Morphology. *ACS Applied Materials & Interfaces*, **2020**, 12, 21088-21099	9.5	20
187	Immobilizing Re(CO)3Br(dcbpy) Complex on CsPbBr3 Nanocrystal for Boosted Charge Separation and Photocatalytic CO2 Reduction. *Solar Rrl*, **2020**, 4, 1900365	7.1	33
186	Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. *Chemical Society Reviews*, **2020**, 49, 354-381	58.5	78
185	The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices. *Advanced Energy Materials*, **2020**, 10, 1902256	21.8	27
184	A Review of Diverse Halide Perovskite Morphologies for Efficient Optoelectronic Applications. *Small Methods*, **2020**, 4, 1900662	12.8	44
183	High-performance light-driven heterogeneous CO catalysis with near-unity selectivity on metal phosphides. *Nature Communications*, **2020**, 11, 5149	17.4	25
182	High Photoluminescence Quantum Yield (>95%) of MAPbBr3 Nanocrystals via Reprecipitation from Methylamine-MAPbBr3 Liquid. *ACS Applied Electronic Materials*, **2020**, 2, 2707-2715	4	7
181	Z-Scheme 2D/2D Heterojunction of CsPbBr3/Bi2WO6 for Improved Photocatalytic CO2 Reduction. *Advanced Functional Materials*, **2020**, 30, 2004293	15.6	87
180	Synchronous surface and bulk composition management for red-shifted light absorption and suppressed interfacial recombination in perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 9743-9752	13	13
179	Intrinsic Self-Trapped Emission in 0D Lead-Free (C4H14N2)2In2Br10 Single Crystal. *Angewandte Chemie*, **2019**, 131, 15581-15586	3.6	31
178	A facile method to fabricate high-quality perovskite nanocrystals based on single crystal powder. *Nano Research*, **2019**, 12, 2640-2645	10	9
177	Intrinsic Self-Trapped Emission in 0D Lead-Free (C H N) In Br Single Crystal. *Angewandte Chemie - International Edition*, **2019**, 58, 15435-15440	16.4	126
176	Solution-Processed Anatase Titania Nanowires: From Hyperbranched Design to Optoelectronic Applications. *Accounts of Chemical Research*, **2019**, 52, 633-644	24.3	10
175	Constructing CsPbBrxI3□ nanocrystal/carbon nanotube composites with improved charge transfer and light harvesting for enhanced photoelectrochemical activity. *Journal of Materials Chemistry A*, **2019**, 7, 5409-5415	13	21

174	Branched titania nanostructures for efficient energy conversion and storage: A review on design strategies, structural merits and multifunctionalities. *Nano Energy*, **2019**, 62, 791-809	17.1	24
173	Hierarchical CsPbBr3 nanocrystal-decorated ZnO nanowire/macroporous graphene hybrids for enhancing charge separation and photocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 13762-13769	13	77
172	A laminar MAPbBr3/MAPbBr3−xIx graded heterojunction single crystal for enhancing charge extraction and optoelectronic performance. *Journal of Materials Chemistry C*, **2019**, 7, 5670-5676	7.1	15
171	Bifacial Contact Junction Engineering for High-Performance Perovskite Solar Cells with Efficiency Exceeding 21. *Small*, **2019**, 15, e1900606	11	11
170	Enhanced efficacy of defect passivation and charge extraction for efficient perovskite photovoltaics with a small open circuit voltage loss. *Journal of Materials Chemistry A*, **2019**, 7, 9025-9033	13	49
169	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications (Solar RRL 4∕2019). *Solar Rrl*, **2019**, 3, 1970044	7.1	4
168	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications. *Solar Rrl*, **2019**, 3, 1800294	7.1	62
167	In Situ Construction of a CsSnI Perovskite Nanocrystal/SnS Nanosheet Heterojunction with Boosted Interfacial Charge Transfer. *Journal of the American Chemical Society*, **2019**, 141, 13434-13441	16.4	168
166	Asymmetric 3D Hole-Transporting Materials Based on Triphenylethylene for Perovskite Solar Cells. *Chemistry of Materials*, **2019**, 31, 5431-5441	9.6	38
165	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. *Angewandte Chemie - International Edition*, **2019**, 58, 5277-5281	16.4	201
164	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. *Angewandte Chemie*, **2019**, 131, 5331-5335	3.6	36
163	The top-down synthesis of single-layered CsCuSbCl halide perovskite nanocrystals for photoelectrochemical application. *Nanoscale*, **2019**, 11, 5180-5187	7.7	42
162	Maze-Like Halide Perovskite Films for Efficient Electron Transport Layer-Free Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1800268	7.1	38
161	Porous ZnO@ZnSe nanosheet array for photoelectrochemical reduction of CO2. *Electrochimica Acta*, **2018**, 274, 298-305	6.7	19
160	Understanding the charge transport properties of redox active metal-organic conjugated wires. *Chemical Science*, **2018**, 9, 3438-3450	9.4	18
159	Synthesis and Photocatalytic Application of Stable Lead-Free Cs AgBiBr Perovskite Nanocrystals. *Small*, **2018**, 14, e1703762	11	288
158	Enhanced Solar-Driven Gaseous CO2 Conversion by CsPbBr3 Nanocrystal/Pd Nanosheet Schottky-Junction Photocatalyst. *ACS Applied Energy Materials*, **2018**, 1, 5083-5089	6.1	87
157	Layered-stacking of titania films for solar energy conversion: Toward tailored optical, electronic and photovoltaic performance. *Journal of Energy Chemistry*, **2018**, 27, 690-702	12	7

156	CsPbBr Nanocrystal/MO (M = Si, Ti, Sn) Composites: Insight into Charge-Carrier Dynamics and Photoelectrochemical Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 42301-42309	9.5	44
155	All-Inorganic Lead-Free Cs2PdX6 (X = Br, I) Perovskite Nanocrystals with Single Unit Cell Thickness and High Stability. *ACS Energy Letters*, **2018**, 3, 2613-2619	20.1	102
154	Core@Shell CsPbBr3@Zeolitic Imidazolate Framework Nanocomposite for Efficient Photocatalytic CO2 Reduction. *ACS Energy Letters*, **2018**, 3, 2656-2662	20.1	277
153	Amorphous-TiO2-Encapsulated CsPbBr3 Nanocrystal Composite Photocatalyst with Enhanced Charge Separation and CO2 Fixation. *Advanced Materials Interfaces*, **2018**, 5, 1801015	4.6	84
152	Conformal coating of ultrathin metal-organic framework on semiconductor electrode for boosted photoelectrochemical water oxidation. *Applied Catalysis B: Environmental*, **2018**, 237, 9-17	21.8	51
151	Atomically Thin Defect-Rich FeMnO Hybrid Nanosheets as High Efficient Electrocatalyst for Water Oxidation. *Advanced Functional Materials*, **2018**, 28, 1802463	15.6	122
150	In situ gelation of Al(III)-4-tert-butylpyridine based metal-organic gel electrolyte for efficient quasi-solid-state dye-sensitized solar cells. *Journal of Power Sources*, **2017**, 343, 148-155	8.9	15
149	In Situ Growth of 120 cm CH NH PbBr Perovskite Crystal Film on FTO Glass for Narrowband-Photodetectors. *Advanced Materials*, **2017**, 29, 1602639	24	182
148	Large-grained perovskite films via FA x MA 1 Pb(I x Br 1) 3 single crystal precursor for efficient solar cells. *Nano Energy*, **2017**, 34, 264-270	17.1	29
147	A micron-scale laminar MAPbBr single crystal for an efficient and stable perovskite solar cell. *Chemical Communications*, **2017**, 53, 5163-5166	5.8	102
146	Recent advances in hierarchical three-dimensional titanium dioxide nanotree arrays for high-performance solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 12699-12717	13	40
145	A CsPbBr Perovskite Quantum Dot/Graphene Oxide Composite for Photocatalytic CO Reduction. *Journal of the American Chemical Society*, **2017**, 139, 5660-5663	16.4	665
144	Self-supported NiMoP2 nanowires on carbon cloth as an efficient and durable electrocatalyst for overall water splitting. *Journal of Materials Chemistry A*, **2017**, 5, 7191-7199	13	122
143	Inorganic cesium lead halide CsPbX3 nanowires for long-term stable solar cells. *Science China Materials*, **2017**, 60, 285-294	7.1	42
142	A multifunctional poly-N-vinylcarbazole interlayer in perovskite solar cells for high stability and efficiency: a test with new triazatruxene-based hole transporting materials. *Journal of Materials Chemistry A*, **2017**, 5, 1913-1918	13	69
141	Dimension engineering on cesium lead iodide for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 2066-2072	13	157
140	Iron-assisted engineering of molybdenum phosphide nanowires on carbon cloth for efficient hydrogen evolution in a wide pH range. *Journal of Materials Chemistry A*, **2017**, 5, 22790-22796	13	27
139	NixSy/NiSe2 Hybrid Catalyst Grown In Situ on Conductive Glass Substrate as Efficient Counter Electrode for Dye-Sensitized Solar Cells. *Electrochimica Acta*, **2017**, 250, 244-250	6.7	10

138	Large-Area Synthesis of a NiP Honeycomb Electrode for Highly Efficient Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 32812-32819	9.5	51
137	A formamidinium–methylammonium lead iodide perovskite single crystal exhibiting exceptional optoelectronic properties and long-term stability. *Journal of Materials Chemistry A*, **2017**, 5, 19431-19438	13	87
136	Trilateral π-conjugation extensions of phenothiazine-based dyes enhance the photovoltaic performance of the dye-sensitized solar cells. *Dyes and Pigments*, **2016**, 124, 63-71	4.6	71
135	Ordered macroporous CH3NH3PbI3 perovskite semitransparent film for high-performance solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 15662-15669	13	42
134	Hierarchical ZnO nanorod-on-nanosheet arrays electrodes for efficient CdSe quantum dot-sensitized solar cells. *Science China Materials*, **2016**, 59, 807-816	7.1	20
133	Toward High Performance Photoelectrochemical Water Oxidation: Combined Effects of Ultrafine Cobalt Iron Oxide Nanoparticle. *Advanced Functional Materials*, **2016**, 26, 4414-4421	15.6	81
132	3,4-Phenylenedioxythiophene (PheDOT) Based Hole-Transporting Materials for Perovskite Solar Cells. *Chemistry - an Asian Journal*, **2016**, 11, 1043-9	4.5	17
131	Novel porous molybdenum tungsten phosphide hybrid nanosheets on carbon cloth for efficient hydrogen evolution. *Energy and Environmental Science*, **2016**, 9, 1468-1475	35.4	356
130	In situ formation of zinc ferrite modified Al-doped ZnO nanowire arrays for solar water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 5124-5129	13	42
129	Achieving high-performance planar perovskite solar cell with Nb-doped TiO2 compact layer by enhanced electron injection and efficient charge extraction. *Journal of Materials Chemistry A*, **2016**, 4, 5647-5653	13	139
128	Electrospun TiO2 nanofiber based hierarchical photoanode for efficient dye-sensitized solar cells. *Electrochimica Acta*, **2016**, 189, 259-264	6.7	27
127	Hierarchical TiO2 B/anatase core/shell nanowire arrays for efficient dye-sensitized solar cells. *RSC Advances*, **2016**, 6, 1288-1295	3.7	6
126	Hydrophobic Hole-Transporting Materials Incorporating Multiple Thiophene Cores with Long Alkyl Chains for Efficient Perovskite Solar Cells. *Electrochimica Acta*, **2016**, 209, 529-540	6.7	26
125	3D Cathodes of Cupric Oxide Nanosheets Coated onto Macroporous Antimony-Doped Tin Oxide for Photoelectrochemical Water Splitting. *ChemSusChem*, **2016**, 9, 3012-3018	8.3	16
124	CdS/CdSe co-sensitized hierarchical TiO2 nanofiber/ZnO nanosheet heterojunction photoanode for quantum dot-sensitized solar cells. *RSC Advances*, **2016**, 6, 78202-78209	3.7	14
123	Synthesis and photovoltaic performance of asymmetric di-anchoring organic dyes. *Dyes and Pigments*, **2015**, 122, 13-21	4.6	19
122	Highly efficient and stable cyclometalated ruthenium(II) complexes as sensitizers for dye-sensitized solar cells. *Electrochimica Acta*, **2015**, 174, 494-501	6.7	20
121	Three-dimensional hyperbranched TiO2/ZnO heterostructured arrays for efficient quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 14826-14832	13	44

120	Nonplanar Organic Sensitizers Featuring a Tetraphenylethene Structure and Double Electron-Withdrawing Anchoring Groups. *Journal of Organic Chemistry*, **2015**, 80, 9034-40	4.2	25
119	Multichromophoric di-anchoring sensitizers incorporating a ruthenium complex and an organic triphenyl amine dye for efficient dye-sensitized solar cells. *Inorganic Chemistry Frontiers*, **2015**, 2, 1040-1044	6.8	6
118	CdS/CdSe co-sensitized TiO2 nanowire-coated hollow Spheres exceeding 6% photovoltaic performance. *Nano Energy*, **2015**, 11, 621-630	17.1	85
117	Synthesis of phenothiazine-based di-anchoring dyes containing fluorene linker and their photovoltaic performance. *Dyes and Pigments*, **2015**, 114, 47-54	4.6	41
116	Novel carbazole based sensitizers for efficient dye-sensitized solar cells: Role of the hexyl chain. *Dyes and Pigments*, **2015**, 114, 18-23	4.6	19
115	Effect of the linkage location in double branched organic dyes on the photovoltaic performance of DSSCs. *Journal of Materials Chemistry A*, **2015**, 3, 1333-1344	13	64
114	Dye-sensitized solar cells with improved performance using cone-calix[4]arene based dyes. *ChemSusChem*, **2015**, 8, 280-7	8.3	21
113	Plasmonic silver nanoparticles matched with vertically aligned nitrogen-doped titanium dioxide nanotube arrays for enhanced photoelectrochemical activity. *Journal of Power Sources*, **2015**, 274, 464-470	8.9	24
112	Achieving Highly Efficient Photoelectrochemical Water Oxidation with a TiCl Treated 3D Antimony-Doped SnO Macropore/Branched □FeO Nanorod Heterojunction Photoanode. *Advanced Science*, **2015**, 2, 1500049	13.6	54
111	Water Splitting: Achieving Highly Efficient Photoelectrochemical Water Oxidation with a TiCl4 Treated 3D Antimony-Doped SnO2 Macropore/Branched □Fe2O3 Nanorod Heterojunction Photoanode (Adv. Sci. 7/2015). *Advanced Science*, **2015**, 2,	13.6	78
110	Improving the Extraction of Photogenerated Electrons with SnO2 Nanocolloids for Efficient Planar Perovskite Solar Cells. *Advanced Functional Materials*, **2015**, 25, 7200-7207	15.6	163
109	Stable organic dyes based on the benzo[1,2-b:4,5-b?]dithiophene donor for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 8083-8090	13	27
108	Three-dimensional TiO2/ZnO hybrid array as a heterostructured anode for efficient quantum-dot-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 5199-205	9.5	75
107	Morphology-controlled cactus-like branched anatase TiO2 arrays with high light-harvesting efficiency for dye-sensitized solar cells. *Journal of Power Sources*, **2014**, 260, 6-11	8.9	49
106	Constructing 3D branched nanowire coated macroporous metal oxide electrodes with homogeneous or heterogeneous compositions for efficient solar cells. *Angewandte Chemie - International Edition*, **2014**, 53, 4816-21	16.4	84
105	Multistack integration of three-dimensional hyperbranched anatase titania architectures for high-efficiency dye-sensitized solar cells. *Journal of the American Chemical Society*, **2014**, 136, 6437-45	16.4	210
104	Maximizing omnidirectional light harvesting in metal oxide hyperbranched array architectures. *Nature Communications*, **2014**, 5, 3968	17.4	138
103	Novel organic dyes incorporating a carbazole or dendritic 3,6-diiodocarbazole unit for efficient dye-sensitized solar cells. *Dyes and Pigments*, **2014**, 100, 269-277	4.6	30

102	Impact of the position isomer of the linkage in the double D–A branch-based organic dyes on the photovoltaic performance. *Dyes and Pigments*, **2014**, 104, 89-96	4.6	24
101	Ultra-long anatase TiO2 nanowire arrays with multi-layered configuration on FTO glass for high-efficiency dye-sensitized solar cells. *Energy and Environmental Science*, **2014**, 7, 644-649	35.4	155
100	Rational surface engineering of anatase titania core-shell nanowire arrays: full-solution processed synthesis and remarkable photovoltaic performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 19100-8	9.5	10
99	Recent advances in hierarchical macroporous composite structures for photoelectric conversion. *Energy and Environmental Science*, **2014**, 7, 3887-3901	35.4	34
98	A family of vertically aligned nanowires with smooth, hierarchical and hyperbranched architectures for efficient energy conversion. *Nano Energy*, **2014**, 9, 15-24	17.1	44
97	A novel metal–organic gel based electrolyte for efficient quasi-solid-state dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 15406	13	38
96	Highly efficient and stable organic sensitizers with duplex starburst triphenylamine and carbazole donors for liquid and quasi-solid-state dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 8988-8994	13	72
95	Constructing 3D Branched Nanowire Coated Macroporous Metal Oxide Electrodes with Homogeneous or Heterogeneous Compositions for Efficient Solar Cells. *Angewandte Chemie*, **2014**, 126, 4916-4921	3.6	10
94	Trilayered Photoanode of TiO2 Nanoparticles on a 1D–3D Nanostructured TiO2-Grown Flexible Ti Substrate for High-Efficiency (9.1%) Dye-Sensitized Solar Cells with Unprecedentedly High Photocurrent Density. *Journal of Physical Chemistry C*, **2014**, 118, 16426-16432	3.8	43
93	Hierarchical tree-like heterostructure arrays for enhanced photoeletrochemical activity. *Electrochimica Acta*, **2014**, 136, 217-222	6.7	11
92	Dithienopyrrolobenzothiadiazole-based organic dyes for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 15365-15376	13	80
91	CdS/CdSe co-sensitized vertically aligned anatase TiO2 nanowire arrays for efficient solar cells. *Nano Energy*, **2014**, 8, 1-8	17.1	77
90	Hierarchical oriented anatase TiO2 nanostructure arrays on flexible substrate for efficient dye-sensitized solar cells. *Scientific Reports*, **2013**, 3, 1892	4.9	105
89	Fabrication of a double layered photoanode consisting of SnO2 nanofibers and nanoparticles for efficient dye-sensitized solar cells. *RSC Advances*, **2013**, 3, 13804	3.7	23
88	Impact of hydroxy and octyloxy substituents of phenothiazine based dyes on the photovoltaic performance. *Dyes and Pigments*, **2013**, 99, 299-307	4.6	31
87	Electrospun hierarchical TiO2 nanorods with high porosity for efficient dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 9205-11	9.5	82
86	D-A-–A organic sensitizers containing a benzothiazole moiety as an additional acceptor for use in solar cells. *Science China Chemistry*, **2013**, 56, 505-513	7.9	24
85	Template-free solvothermal fabrication of hierarchical TiO2 hollow microspheres for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 13274	13	40

84	Hierarchical Zn2SnO4 nanosheets consisting of nanoparticles for efficient dye-sensitized solar cells. *Nano Energy*, **2013**, 2, 1287-1293	17.1	38
83	Phenothiazine-based dyes with bilateral extension of π-conjugation for efficient dye-sensitized solar cells. *Dyes and Pigments*, **2013**, 96, 722-731	4.6	68
82	Hierarchical macroporous Zn(2)SnO(4)-ZnO nanorod composite photoelectrodes for efficient CdS/CdSe quantum dot co-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 11865-71	9.5	39
81	Novel dithieno[3,2-b:2?,3?-d]pyrrole-based organic dyes with high molar extinction coefficient for dye-sensitized solar cells. *Organic Electronics*, **2013**, 14, 2071-2081	3.5	52
80	Synthesis and photovoltaic performance of dihydrodibenzoazepine-based sensitizers with additional lateral anchor. *Dyes and Pigments*, **2013**, 99, 1072-1081	4.6	12
79	Novel phenanthroline-based ruthenium complexes for dye-sensitized solar cells: enhancement in performance through fluoro-substitution. *RSC Advances*, **2013**, 3, 19311	3.7	10
78	Hydrothermal fabrication of hierarchically macroporous Zn2SnO4 for highly efficient dye-sensitized solar cells. *Nanoscale*, **2013**, 5, 5940-8	7.7	61
77	Fabrication of partially crystalline TiO2 nanotube arrays using 1, 2-propanediol electrolytes and application in dye-sensitized solar cells. *Advanced Powder Technology*, **2013**, 24, 175-182	4.6	17
76	Dextran based highly conductive hydrogel polysulfide electrolyte for efficient quasi-solid-state quantum dot-sensitized solar cells. *Electrochimica Acta*, **2013**, 92, 117-123	6.7	57
75	Influence of spatial arrangements of π-spacer and acceptor of phenothiazine based dyes on the performance of dye-sensitized solar cells. *Organic Electronics*, **2013**, 14, 2662-2672	3.5	31
74	Starburst triarylamine based dyes bearing a 3,4-ethylenedioxythiophene linker for efficient dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 11909-17	3.6	25
73	Hydrothermal fabrication of hierarchically anatase TiO2 nanowire arrays on FTO glass for dye-sensitized solar cells. *Scientific Reports*, **2013**, 3, 1352	4.9	272
72	A double layered TiO2 photoanode consisting of hierarchical flowers and nanoparticles for high-efficiency dye-sensitized solar cells. *Nanoscale*, **2013**, 5, 4362-9	7.7	86
71	A novel TCO- and Pt-free counter electrode for high efficiency dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 1724-1730	13	50
70	Macroporous SnO2 synthesized via a template-assisted reflux process for efficient dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 5105-11	9.5	56
69	Anti-recombination organic dyes containing dendritic triphenylamine moieties for high open-circuit voltage of DSSCs. *Dyes and Pigments*, **2013**, 99, 74-81	4.6	29
68	Performance of dye-sensitized solar cells based on novel sensitizers bearing asymmetric double DA chains with arylamines as donors. *Dyes and Pigments*, **2012**, 94, 481-489	4.6	48
67	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2012**, 22, 15475		127

66	Ruthenium dyes with heteroleptic tridentate 2,6-bis(benzimidazol-2-yl)-pyridine for dye-sensitized solar cells: Enhancement in performance through structural modifications. *Inorganica Chimica Acta*, **2012**, 392, 388-395	2.7	13
65	Metal-free organic dyes derived from triphenylethylene for dye-sensitized solar cells: tuning of the performance by phenothiazine and carbazole. *Journal of Materials Chemistry*, **2012**, 22, 8994		138
64	Synthesis of hierarchical SnO2 octahedra with tailorable size and application in dye-sensitized solar cells with enhanced power conversion efficiency. *Journal of Materials Chemistry*, **2012**, 22, 21495		51
63	High-performance dye-sensitized solar cells based on hierarchical yolk–shell anatase TiO2 beads. *Journal of Materials Chemistry*, **2012**, 22, 1627-1633		66
62	Oriented hierarchical single crystalline anatase TiO2 nanowire arrays on Ti-foil substrate for efficient flexible dye-sensitized solar cells. *Energy and Environmental Science*, **2012**, 5, 5750-5757	35.4	335
61	Effect of TiO2 morphology on photovoltaic performance of dye-sensitized solar cells: nanoparticles, nanofibers, hierarchical spheres and ellipsoid spheres. *Journal of Materials Chemistry*, **2012**, 22, 7910		148
60	Dye-sensitized solar cells based on a double layered TiO2 photoanode consisting of hierarchical nanowire arrays and nanoparticles with greatly improved photovoltaic performance. *Journal of Materials Chemistry*, **2012**, 22, 18057		94
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