Mohamad K Nazeeruddin

List of Publications by Year
in descending order

753 papers	139,137 citations	123 162 h-index	96 355 g-index
790 all docs	790 docs citations	790 times ranked	51878 citing authors

#	Article	IF	Citations
1	Sequential deposition as a route to high-performance perovskite-sensitized solar cells. Nature, 2013, 499, 316-319.	13.7	8,542
2	Conversion of light to electricity by cis-X2bis(2,2'-bipyridyl-4,4'-dicarboxylate)ruthenium(II) charge-transfer sensitizers (X = Cl-, Br-, I-, CN-, and SCN-) on nanocrystalline titanium dioxide electrodes. Journal of the American Chemical Society, 1993, 115, 6382-6390.	6.6	5,813
3	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)â€“Based Redox Electrolyte Exceed 12 Percent Efficiency. Science, 2011, 334, 629-634.	6.0	5,637
4	Cesium-containing triple cation perovskite solar cells: improved stability, reproducibility and high efficiency. Energy and Environmental Science, 2016, 9, 1989-1997.	15.6	4,560
5	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. Nature Chemistry, 2014, 6, 242-247.	6.6	3,982
6	Combined Experimental and DFT-TDDFT Computational Study of Photoelectrochemical Cell Ruthenium Sensitizers. Journal of the American Chemical Society, 2005, 127, 16835-16847.	6.6	2,645
7	Engineering of Efficient Panchromatic Sensitizers for Nanocrystalline TiO2-Based Solar Cells. Journal of the American Chemical Society, 2001, 123, 1613-1624.	6.6	2,483
8	Efficient inorganicâ€“organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors. Nature Photonics, 2013, 7, 486-491.	15.6	2,423
9	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. Science, 2014, 345, 1593-1596.	6.0	2,260
10	Mesoscopic CH₃NH₃PbI₃/TiO₂ Heterojunction Solar Cells. Journal of the American Chemical Society, 2012, 134, 17396-17399.	6.6	1,801
11	Fabrication of thin film dye sensitized solar cells with solar to electric power conversion efficiency over 10%. Thin Solid Films, 2008, 516, 4613-4619.	0.8	1,702
12	Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170.	4.7	1,669
13	One-Year stable perovskite solar cells by 2D/3D interface engineering. Nature Communications, 2017, 8, 15684.	5.8	1,625
14	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. Nature Materials, 2003, 2, 402-407.	13.3	1,466
15	Perovskite solar cells employing organic charge-transport layers. Nature Photonics, 2014, 8, 128-132.	15.6	1,320
16	Enhance the Optical Absorptivity of Nanocrystalline TiO₂ Film with High Molar Extinction Coefficient Ruthenium Sensitizers for High Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 10720-10728.	6.6	1,307
17	Organohalide lead perovskites for photovoltaic applications. Energy and Environmental Science, 2014, 7, 2448-2463.	15.6	1,220
18	Understanding the rate-dependent Jâ€“V hysteresis, slow time component, and aging in CH₃NH₃PbI₃ perovskite solar cells: the role of a compensated electric field. Energy and Environmental Science, 2015, 8, 995-1004.	15.6	1,150

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19	Mixedâ€Organicâ€Cation Perovskite Photovoltaics for Enhanced Solarâ€Light Harvesting. Angewandte Chemie - International Edition, 2014, 53, 3151-3157.	7.2	1,117
20	Highly efficient planar perovskite solar cells through band alignment engineering. Energy and Environmental Science, 2015, 8, 2928-2934.	15.6	1,097
21	Cation-Induced Band-Gap Tuning in Organohalide Perovskites: Interplay of Spinâ€“Orbit Coupling and Octahedra Tilting. Nano Letters, 2014, 14, 3608-3616.	4.5	1,033
22	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid Ï‰-ammonium chlorides. Nature Chemistry, 2015, 7, 703-711.	6.6	1,033
23	Acidâˆ'Base Equilibria of (2,2â€˜-Bipyridyl-4,4â€˜-dicarboxylic acid)ruthenium(II) Complexes and the Effect of Protonation on Charge-Transfer Sensitization of Nanocrystalline Titania. Inorganic Chemistry, 1999, 38, 6298-6305.	1.9	1,020
24	High-Efficiency Organic-Dye- Sensitized Solar Cells Controlled by Nanocrystalline-TiO2 Electrode Thickness. Advanced Materials, 2006, 18, 1202-1205.	11.1	997
25	Not All That Glitters Is Gold: Metal-Migration-Induced Degradation in Perovskite Solar Cells. ACS Nano, 2016, 10, 6306-6314.	7.3	966
26	Fabrication of screen-printing pastes from TiO2 powders for dye-sensitised solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 603-612.	4.4	938
27	Perovskite as Light Harvester: A Game Changer in Photovoltaics. Angewandte Chemie - International Edition, 2014, 53, 2812-2824.	7.2	862
28	First-Principles Modeling of Mixed Halide Organometal Perovskites for Photovoltaic Applications. Journal of Physical Chemistry C, 2013, 117, 13902-13913.	1.5	861
29	Effect of Annealing Temperature on Film Morphology of Organicâ€“Inorganic Hybrid Pervoskite Solidâ€State Solar Cells. Advanced Functional Materials, 2014, 24, 3250-3258.	7.8	850
30	Meso-Substituted Porphyrins for Dye-Sensitized Solar Cells. Chemical Reviews, 2014, 114, 12330-12396.	23.0	839
31	Highly Efficient Dye-Sensitized Solar Cells Based on Carbon Black Counter Electrodes. Journal of the Electrochemical Society, 2006, 153, A2255.	1.3	824
32	A molecularly engineered hole-transporting material for efficient perovskite solar cells. Nature Energy, 2016, 1, .	19.8	816
33	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	19.8	797
34	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells. ACS Nano, 2010, 4, 3374-3380.	7.3	781
35	Inorganic hole conductor-based lead halide perovskite solar cells with 12.4% conversion efficiency. Nature Communications, 2014, 5, 3834.	5.8	769
36	Molecular Engineering of Organic Sensitizers for Solar Cell Applications. Journal of the American Chemical Society, 2006, 128, 16701-16707.	6.6	760

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37	Enhanced electronic properties in mesoporous TiO2 via lithium doping for high-efficiency perovskite solar cells. Nature Communications, 2016, 7, 10379.	5.8	744
38	Dye-sensitized solar cells: A brief overview. Solar Energy, 2011, 85, 1172-1178.	2.9	726
39	Investigation of Sensitizer Adsorption and the Influence of Protons on Current and Voltage of a Dye-Sensitized Nanocrystalline TiO2Solar Cell. Journal of Physical Chemistry B, 2003, 107, 8981-8987.	1.2	712
40	Tris(2-(1<i>H</i>-pyrazol-1-yl)pyridine)cobalt(III) as p-Type Dopant for Organic Semiconductors and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 18042-18045.	6.6	698
41	Highly Efficient Porphyrin Sensitizers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 11760-11762.	1.5	691
42	Dimensional tailoring of hybrid perovskites for photovoltaics. Nature Reviews Materials, 2019, 4, 4-22.	23.3	671
43	Impedance Spectroscopic Analysis of Lead Iodide Perovskite-Sensitized Solid-State Solar Cells. ACS Nano, 2014, 8, 362-373.	7.3	663
44	Molecular Engineering of Organic Sensitizers for Dye-Sensitized Solar Cell Applications. Journal of the American Chemical Society, 2008, 130, 6259-6266.	6.6	625
45	Efficient CdSe Quantum Dot-Sensitized Solar Cells Prepared by an Improved Successive Ionic Layer Adsorption and Reaction Process. Nano Letters, 2009, 9, 4221-4227.	4.5	612
46	Ionic polarization-induced currentâ€“voltage hysteresis in CH3NH3PbX3 perovskite solar cells. Nature Communications, 2016, 7, 10334.	5.8	602
47	Control of dark current in photoelectrochemical (TiO2/Iâ€“â€“I3â€“) and dye-sensitized solar cells. Chemical Communications, 2005, , 4351.	2.2	561
48	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536
49	High efficiency stable inverted perovskite solar cells without current hysteresis. Energy and Environmental Science, 2015, 8, 2725-2733.	15.6	533
50	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. Energy and Environmental Science, 2017, 10, 604-613.	15.6	525
51	Hybrid Polymer/Zinc Oxide Photovoltaic Devices with Vertically Oriented ZnO Nanorods and an Amphiphilic Molecular Interface Layer. Journal of Physical Chemistry B, 2006, 110, 7635-7639.	1.2	522
52	Organized Mesoporous TiO2 Films Exhibiting Greatly Enhanced Performance in Dye-Sensitized Solar Cells. Nano Letters, 2005, 5, 1789-1792.	4.5	520
53	High-Performance Nanostructured Inorganicâˆ'Organic Heterojunction Solar Cells. Nano Letters, 2010, 10, 2609-2612.	4.5	520
54	Efficient Inorganicâ€“Organic Hybrid Perovskite Solar Cells Based on Pyrene Arylamine Derivatives as Hole-Transporting Materials. Journal of the American Chemical Society, 2013, 135, 19087-19090.	6.6	512

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55	Thermal Behavior of Methylammonium Lead-Trihalide Perovskite Photovoltaic Light Harvesters. Chemistry of Materials, 2014, 26, 6160-6164.	3.2	502
56	Efficient Far Red Sensitization of Nanocrystalline TiO₂ Films by an Unsymmetrical Squaraine Dye. Journal of the American Chemical Society, 2007, 129, 10320-10321.	6.6	497
57	Highly Phosphorescence Iridium Complexes and Their Application in Organic Light-Emitting Devices. Journal of the American Chemical Society, 2003, 125, 8790-8797.	6.6	490
58	Molecular Cosensitization for Efficient Panchromatic Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2007, 46, 8358-8362.	7.2	490
59	PbS and CdS Quantum Dotâ€Sensitized Solidâ€State Solar Cells: â€œOld Concepts, New Resultsâ€. Advanced Functional Materials, 2009, 19, 2735-2742.	7.8	458
60	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. Nature Energy, 2017, 2, 972-979.	19.8	445
61	Highly efficient perovskite solar cells with a compositionally engineered perovskite/hole transporting material interface. Energy and Environmental Science, 2017, 10, 621-627.	15.6	436
62	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. Nature Photonics, 2009, 3, 406-411.	15.6	430
63	Efficient Light Harvesting by Using Green Zn-Porphyrin-Sensitized Nanocrystalline TiO2Films. Journal of Physical Chemistry B, 2005, 109, 15397-15409.	1.2	425
64	Predicting the Openâ€Circuit Voltage of CH₃NH₃PbI₃ Perovskite Solar Cells Using Electroluminescence and Photovoltaic Quantum Efficiency Spectra: the Role of Radiative and Nonâ€Radiative Recombination. Advanced Energy Materials, 2015, 5, 1400812.	10.2	425
65	Influence of the Donor Size in Dâˆ'Ï€â€"A Organic Dyes for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2014, 136, 5722-5730.	6.6	417
66	Flexible high efficiency perovskite solar cells. Energy and Environmental Science, 2014, 7, 994.	15.6	409
67	Using a two-step deposition technique to prepare perovskite (CH3NH3PbI3) for thin film solar cells based on ZrO2 and TiO2 mesostructures. RSC Advances, 2013, 3, 18762.	1.7	405
68	CoII(dbbip)22+ Complex Rivals Tri-iodide/Iodide Redox Mediator in Dye-Sensitized Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 10461-10464.	1.2	402
69	High-efficiency (7.2%) flexible dye-sensitized solar cells with Ti-metal substrate for nanocrystalline-TiO2photoanode. Chemical Communications, 2006, , 4004-4006.	2.2	399
70	Nanocrystalline Rutile Electron Extraction Layer Enables Low-Temperature Solution Processed Perovskite Photovoltaics with 13.7% Efficiency. Nano Letters, 2014, 14, 2591-2596.	4.5	397
71	New Paradigm in Molecular Engineering of Sensitizers for Solar Cell Applications. Journal of the American Chemical Society, 2009, 131, 5930-5934.	6.6	385
72	High efficiency methylammonium lead triiodide perovskite solar cells: the relevance of non-stoichiometric precursors. Energy and Environmental Science, 2015, 8, 3550-3556.	15.6	384

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73	The synergistic effect of H₂O and DMF towards stable and 20% efficiency inverted perovskite solar cells. Energy and Environmental Science, 2017, 10, 808-817.	15.6	383
74	Highly Efficient and Thermally Stable Organic Sensitizers for Solventâ€Free Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2008, 47, 327-330.	7.2	370
75	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	15.6	365
76	CdSe Quantum Dot-Sensitized Solar Cells Exceeding Efficiency 1% at Full-Sun Intensity. Journal of Physical Chemistry C, 2008, 112, 11600-11608.	1.5	339
77	Outdoor Performance and Stability under Elevated Temperatures and Longâ€Term Light Soaking of Tripleâ€Layer Mesoporous Perovskite Photovoltaics. Energy Technology, 2015, 3, 551-555.	1.8	336
78	Efficient Sensitization of Nanocrystalline TiO2 Films by a Near-IR-Absorbing Unsymmetrical Zinc Phthalocyanine. Angewandte Chemie - International Edition, 2007, 46, 373-376.	7.2	334
79	Frontiers, opportunities, and challenges in perovskite solar cells: A critical review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2018, 35, 1-24.	5.6	329
80	Analysis of Electron Transfer Properties of ZnO and TiO₂ Photoanodes for Dye-Sensitized Solar Cells. ACS Nano, 2014, 8, 2261-2268.	7.3	326
81	Molecular Control of Recombination Dynamics in Dye-Sensitized Nanocrystalline TiO2Films:Â Free Energy vs Distance Dependence. Journal of the American Chemical Society, 2004, 126, 5225-5233.	6.6	325
82	Stable New Sensitizer with Improved Light Harvesting for Nanocrystalline Dye-Sensitized Solar Cells. Advanced Materials, 2004, 16, 1806-1811.	11.1	324
83	An Organic D-Ï€-A Dye for Record Efficiency Solid-State Sensitized Heterojunction Solar Cells. Nano Letters, 2011, 11, 1452-1456.	4.5	322
84	Nanowire Perovskite Solar Cell. Nano Letters, 2015, 15, 2120-2126.	4.5	321
85	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 16172-16178.	6.6	321
86	Panchromatic engineering for dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 842-857.	15.6	319
87	Reversible Colorimetric Probes for Mercury Sensing. Journal of the American Chemical Society, 2005, 127, 12351-12356.	6.6	318
88	Phase Segregation in Cs-, Rb- and K-Doped Mixed-Cation (MA)_{<i>x</i>}(FA)_{1â€“<i>x</i>}PbI₃ Hybrid Perovskites from Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 14173-14180.	6.6	317
89	Anthocyanins and betalains as light-harvesting pigments for dye-sensitized solar cells. Solar Energy, 2012, 86, 1563-1575.	2.9	315
90	Surface Modification of Titanium with Phosphonic Acid To Improve Bone Bonding:Â Characterization by XPS and ToF-SIMS. Langmuir, 2002, 18, 2582-2589.	1.6	311

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91	Selective growth of layered perovskites for stable and efficient photovoltaics. Energy and Environmental Science, 2018, 11, 952-959.	15.6	305
92	Nanostructured TiO2/CH3NH3PbI3 heterojunction solar cells employing spiro-OMeTAD/Co-complex as hole-transporting material. Journal of Materials Chemistry A, 2013, 1, 11842.	5.2	301
93	Real-space observation of unbalanced charge distribution inside a perovskite-sensitized solar cell. Nature Communications, 2014, 5, 5001.	5.8	294
94	Photovoltaic characterization of dye-sensitized solar cells: effect of device masking on conversion efficiency. Progress in Photovoltaics: Research and Applications, 2006, 14, 589-601.	4.4	291
95	Application of Metalloporphyrins in Nanocrystalline Dye-Sensitized Solar Cells for Conversion of Sunlight into Electricity. Langmuir, 2004, 20, 6514-6517.	1.6	288
96	Recent Developments in Solidâ€State Dyeâ€Sensitized Solar Cells. ChemSusChem, 2008, 1, 699-707.	3.6	286
97	Regenerative PbS and CdS Quantum Dot Sensitized Solar Cells with a Cobalt Complex as Hole Mediator. Langmuir, 2009, 25, 7602-7608.	1.6	270
98	Phthalocyanines for dye-sensitized solar cells. Coordination Chemistry Reviews, 2019, 381, 1-64.	9.5	269
99	Perovskite Solar Cells: Influence of Hole Transporting Materials on Power Conversion Efficiency. ChemSusChem, 2016, 9, 10-27.	3.6	267
100	Synthesis of novel ruthenium sensitizers and their application in dye-sensitized solar cells. Coordination Chemistry Reviews, 2005, 249, 1460-1467.	9.5	262
101	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. Chemical Science, 2011, 2, 949.	3.7	259
102	Graphene Nanoplatelet Cathode for Co(III)/(II) Mediated Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 9171-9178.	7.3	258
103	Highâ€Performance Perovskite Solar Cells with Enhanced Environmental Stability Based on Amphiphileâ€Modified CH₃NH₃PbI₃. Advanced Materials, 2016, 28, 2910-2915.	11.1	258
104	Dye Dependent Regeneration Dynamics in Dye Sensitized Nanocrystalline Solar Cells:â€‰ Evidence for the Formation of a Ruthenium Bipyridyl Cation/Iodide Intermediate. Journal of Physical Chemistry C, 2007, 111, 6561-6567.	1.5	257
105	Mixed Dimensional 2D/3D Hybrid Perovskite Absorbers: The Future of Perovskite Solar Cells?. Advanced Functional Materials, 2019, 29, 1806482.	7.8	257
106	Alkyl Chain Barriers for Kinetic Optimization in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 16376-16383.	6.6	254
107	Dimensionality engineering of hybrid halide perovskite light absorbers. Nature Communications, 2018, 9, 5028.	5.8	245
108	Toward Interaction of Sensitizer and Functional Moieties in Hole-Transporting Materials for Efficient Semiconductor-Sensitized Solar Cells. Nano Letters, 2011, 11, 4789-4793.	4.5	243

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109	Perovskite Solar Cells with 12.8% Efficiency by Using Conjugated Quinolizino Acridine Based Hole Transporting Material. Journal of the American Chemical Society, 2014, 136, 8516-8519.	6.6	243
110	Stepwise assembly of amphiphilic ruthenium sensitizers and their applications in dye-sensitized solar cell. Coordination Chemistry Reviews, 2004, 248, 1317-1328.	9.5	241
111	Preparation of phosphonated polypyridyl ligands to anchor transition-metal complexes on oxide surfaces: application for the conversion of light to electricity with nanocrystalline TiO2films. Journal of the Chemical Society Chemical Communications, 1995, .	2.0	239
112	A Methoxydiphenylamineâ€Substituted Carbazole Twin Derivative: An Efficient Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 11409-11413.	7.2	239
113	Design, Synthesis, and Application of Amphiphilic Ruthenium Polypyridyl Photosensitizers in Solar Cells Based on Nanocrystalline TiO2Films. Langmuir, 2002, 18, 952-954.	1.6	238
114	Structure of Nanocrystalline TiO2 Powders and Precursor to Their Highly Efficient Photosensitizer. Chemistry of Materials, 1997, 9, 430-439.	3.2	234
115	From Nano- to Micrometer Scale: The Role of Antisolvent Treatment on High Performance Perovskite Solar Cells. Chemistry of Materials, 2017, 29, 3490-3498.	3.2	234
116	Molecular Engineering of Photosensitizers for Nanocrystalline Solar Cells:â€‰ Synthesis and Characterization of Ru Dyes Based on Phosphonated Terpyridines. Inorganic Chemistry, 1997, 36, 5937-5946.	1.9	228
117	Time-Dependent Density Functional Theory Investigations on the Excited States of Ru(II)-Dye-Sensitized TiO₂ Nanoparticles:â€‰ The Role of Sensitizer Protonation. Journal of the American Chemical Society, 2007, 129, 14156-14157.	6.6	228
118	High Open-Circuit Voltage Solid-State Dye-Sensitized Solar Cells with Organic Dye. Nano Letters, 2009, 9, 2487-2492.	4.5	228
119	Influence of Ancillary Ligands in Dye-Sensitized Solar Cells. Chemical Reviews, 2016, 116, 9485-9564.	23.0	225
120	First-Principles Modeling of the Adsorption Geometry and Electronic Structure of Ru(II) Dyes on Extended TiO₂ Substrates for Dye-Sensitized Solar Cell Applications. Journal of Physical Chemistry C, 2010, 114, 6054-6061.	1.5	224
121	A Lightâ€Resistant Organic Sensitizer for Solarâ€Cell Applications. Angewandte Chemie - International Edition, 2009, 48, 1576-1580.	7.2	223
122	Synthesis, Characterization, and DFT/TD-DFT Calculations of Highly Phosphorescent Blue Light-Emitting Anionic Iridium Complexes. Inorganic Chemistry, 2008, 47, 980-989.	1.9	222
123	Absorption Spectra and Excited State Energy Levels of the N719 Dye on TiO₂ in Dye-Sensitized Solar Cell Models. Journal of Physical Chemistry C, 2011, 115, 8825-8831.	1.5	222
124	Supramolecular Control of Charge-Transfer Dynamics on Dye-sensitized Nanocrystalline TiO2 Films. Chemistry - A European Journal, 2004, 10, 595-602.	1.7	219
125	Cation Dynamics in Mixed-Cation (MA)_{<i>x</i>}(FA)_{1â€“<i>x</i>}PbI₃ Hybrid Perovskites from Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 10055-10061.	6.6	209
126	Molecular engineering of face-on oriented dopant-free hole transporting material for perovskite solar cells with 19% PCE. Journal of Materials Chemistry A, 2017, 5, 7811-7815.	5.2	209

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127	Dye-sensitized solar cells based on poly (3,4-ethylenedioxythiophene) counter electrode derived from ionic liquids. Journal of Materials Chemistry, 2010, 20, 1654.	6.7	208
128	Cyclometallated iridium complexes for conversion of light into electricity and electricity into light. Journal of Organometallic Chemistry, 2009, 694, 2661-2670.	0.8	206
129	A simple spiro-type hole transporting material for efficient perovskite solar cells. Energy and Environmental Science, 2015, 8, 1986-1991.	15.6	206
130	Deep level trapped defect analysis in CH₃NH₃PbI₃ perovskite solar cells by deep level transient spectroscopy. Energy and Environmental Science, 2017, 10, 1128-1133.	15.6	206
131	Light Harvesting and Charge Recombination in CH₃NH₃PbI₃ Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. ACS Nano, 2015, 9, 4200-4209.	7.3	205
132	Cobalt Electrolyte/Dye Interactions in Dye-Sensitized Solar Cells: A Combined Computational and Experimental Study. Journal of the American Chemical Society, 2012, 134, 19438-19453.	6.6	204
133	A dopant free linear acene derivative as a hole transport material for perovskite pigmented solar cells. Energy and Environmental Science, 2015, 8, 1816-1823.	15.6	202
134	Effect of Coadsorbent on the Photovoltaic Performance of Zinc Pthalocyanine-Sensitized Solar Cells. Langmuir, 2008, 24, 5636-5640.	1.6	199
135	Efficient co-sensitization of nanocrystalline TiO2 films by organic sensitizers. Chemical Communications, 2007, , 4680.	2.2	198
136	Molecular Design of Unsymmetrical Squaraine Dyes for High Efficiency Conversion of Low Energy Photons into Electrons Using TiO₂ Nanocrystalline Films. Advanced Functional Materials, 2009, 19, 2720-2727.	7.8	197
137	Co-sensitization of Organic Dyes for Efficient Ionic Liquid Electrolyte-Based Dye-Sensitized Solar Cells. Langmuir, 2007, 23, 10906-10909.	1.6	196
138	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. Energy and Environmental Science, 2011, 4, 4921.	15.6	196
139	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH₃NH₃PbI₃ Perovskite. Advanced Energy Materials, 2016, 6, 1502472.	10.2	196
140	Conversion of Light into Electricity with Trinuclear Ruthenium Complexes Adsorbed on Textured TiO2Films. Helvetica Chimica Acta, 1990, 73, 1788-1803.	1.0	194
141	Efficient Green-Blue-Light-Emitting Cationic Iridium Complex for Light-Emitting Electrochemical Cells. Inorganic Chemistry, 2006, 45, 9245-9250.	1.9	193
142	Perovskite Photovoltaics: The Significant Role of Ligands in Film Formation, Passivation, and Stability. Advanced Materials, 2019, 31, e1805702.	11.1	192
143	Stable Single-Layer Light-Emitting Electrochemical Cell Using 4,7-Diphenyl-1,10-phenanthroline-bis(2-phenylpyridine)iridium(III) Hexafluorophosphate. Journal of the American Chemical Society, 2006, 128, 14786-14787.	6.6	191
144	Efficiency<i>vs.</i>stability: dopant-free hole transporting materials towards stabilized perovskite solar cells. Chemical Science, 2019, 10, 6748-6769.	3.7	191

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145	Engineering of a Novel Ruthenium Sensitizer and Its Application in Dye-Sensitized Solar Cells for Conversion of Sunlight into Electricity. Inorganic Chemistry, 2005, 44, 178-180.	1.9	189
146	An Improved Perylene Sensitizer for Solar Cell Applications. ChemSusChem, 2008, 1, 615-618.	3.6	189
147	Di-branched di-anchoring organic dyes for dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 1094.	15.6	188
148	Subnanometer Ga₂O₃ Tunnelling Layer by Atomic Layer Deposition to Achieve 1.1 V Open-Circuit Potential in Dye-Sensitized Solar Cells. Nano Letters, 2012, 12, 3941-3947.	4.5	188
149	Benzotrithiopheneâ€Based Holeâ€Transporting Materials for 18.2â€‰% Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 6270-6274.	7.2	188
150	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. Joule, 2018, 2, 788-798.	11.7	187
151	Investigation Regarding the Role of Chloride in Organicâ€“Inorganic Halide Perovskites Obtained from Chloride Containing Precursors. Nano Letters, 2014, 14, 6991-6996.	4.5	185
152	Hysteresis-Free Lead-Free Double-Perovskite Solar Cells by Interface Engineering. ACS Energy Letters, 2018, 3, 1781-1786.	8.8	182
153	Design and Development of Functionalized Cyclometalated Ruthenium Chromophores for Light-Harvesting Applications. Inorganic Chemistry, 2011, 50, 5494-5508.	1.9	180
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