

Liyuan Han

List of Publications by Year in descending order

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334
papers

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times ranked

19444
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-Carrier Transport in Quasi-2D Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2106822.	11.1	74
2	Crystallization kinetics modulation and defect suppression of all-inorganic CsPbX ₃ perovskite films. <i>Energy and Environmental Science</i> , 2022, 15, 413-438.	15.6	53
3	Robust heterojunction to strengthen the performances of FAPbI ₃ perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 432, 134311.	6.6	7
4	Crystal-array-assisted growth of a perovskite absorption layer for efficient and stable solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 1078-1085.	15.6	62
5	Droplet Manipulation and Crystallization Regulation in Inkjet-Printed Perovskite Film Formation. <i>CCS Chemistry</i> , 2022, 4, 1465-1485.	4.6	14
6	Two-dimensional perovskites: Impacts of species, components, and properties of organic spacers on solar cells. <i>Nano Today</i> , 2022, 43, 101394.	6.2	58
7	Self-assembled interlayer aiming at the stability of NiO based perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022, 69, 211-220.	7.1	20
8	Heterogeneous FASnI ₃ Absorber with Enhanced Electric Field for High-Performance Lead-Free Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2022, 14, 99.	14.4	43
9	Dual Functions of Performance Improvement and Lead Leakage Mitigation of Perovskite Solar Cells Enabled by Phenylbenzimidazole Sulfonic Acid. <i>Small Methods</i> , 2022, 6, e2101257.	4.6	22
10	Modification of SnO ₂ with Phosphorus-Containing Lewis Acid for High-Performance Planar Perovskite Solar Cells with Negligible Hysteresis. <i>Solar Rrl</i> , 2022, 6, .	3.1	17
11	Lead-Free Perovskite Solar Cells with Over 10% Efficiency and Size 1 cm ² Enabled by Solvent-Crystallization Regulation in a Two-Step Deposition Method. <i>ACS Energy Letters</i> , 2022, 7, 425-431.	8.8	36
12	Effective Passivation with Self-Organized Molecules for Perovskite Photovoltaics. <i>Advanced Materials</i> , 2022, 34, e2202100.	11.1	67
13	Stable perovskite solar cells with 23.12% efficiency and area over 1 cm ² by an all-in-one strategy. <i>Science China Chemistry</i> , 2022, 65, 1321-1329.	4.2	25
14	Robust hole transport material with interface anchors enhances the efficiency and stability of inverted formamidinium-cesium perovskite solar cells with a certified efficiency of 22.3%. <i>Energy and Environmental Science</i> , 2022, 15, 2567-2580.	15.6	46
15	Restricting the Formation of Pb-Pb Dimer via Surface Pb Site Passivation for Enhancing the Light Stability of Perovskite. <i>Small</i> , 2022, 18, e2201831.	5.2	15
16	In situ growth of graphene on both sides of a Cu-Ni alloy electrode for perovskite solar cells with improved stability. <i>Nature Energy</i> , 2022, 7, 520-527.	19.8	68
17	Sustainable Pb Management in Perovskite Solar Cells toward Eco-Friendly Development. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	38
18	Progress of all-perovskite tandem solar cells: the role of narrow-bandgap absorbers. <i>Science China Chemistry</i> , 2021, 64, 218-227.	4.2	37

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19	Effects of A site doping on the crystallization of perovskite films. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1372-1394.	5.2	43
20	A Scalable Integrated Dopant-Free Heterostructure to Stabilize Perovskite Solar Cell Modules. <i>Advanced Energy Materials</i> , 2021, 11, 2003301.	10.2	43
21	Stable tin perovskite solar cells enabled by widening the time window for crystallization. <i>Science China Materials</i> , 2021, 64, 1849-1857.	3.5	10
22	Additive Engineering toward High-Performance Tin Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100034.	3.1	34
23	2D ₃ Sb ₂ I ₉ Back Surface Field for Efficient and Stable Perovskite Solar Cells. <i>Small Methods</i> , 2021, 5, e2001090.	4.6	8
24	Making Room for Growing Oriented FASn ₃ with Large Grains via Cold Precursor Solution. <i>Advanced Functional Materials</i> , 2021, 31, 2100931.	7.8	57
25	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. <i>Science Advances</i> , 2021, 7, .	4.7	165
26	Lead-free tin perovskite solar cells. <i>Joule</i> , 2021, 5, 863-886.	11.7	134
27	Stable tin perovskite solar cells developed via additive engineering. <i>Science China Materials</i> , 2021, 64, 2645-2654.	3.5	15
28	Design of Low Bandgap CsPb _{1-x} Sn _x I ₂ Br Perovskite Solar Cells with Excellent Phase Stability. <i>Small</i> , 2021, 17, e2101380.	5.2	42
29	The Main Progress of Perovskite Solar Cells in 2020-2021. <i>Nano-Micro Letters</i> , 2021, 13, 152.	14.4	250
30	Reduction of Nonradiative Loss in Inverted Perovskite Solar Cells by Donor-Acceptor Dipoles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44321-44328.	4.0	30
31	Defect Passivation for Perovskite Solar Cells: from Molecule Design to Device Performance. <i>ChemSusChem</i> , 2021, 14, 4354-4376.	3.6	43
32	Interface Energy Level Management toward Efficient Tin Perovskite Solar Cells with Hole-Transport Layer-Free Structure. <i>Advanced Functional Materials</i> , 2021, 31, 2106560.	7.8	30
33	Review on Practical Interface Engineering of Perovskite Solar Cells: From Efficiency to Stability. <i>Solar Rrl</i> , 2020, 4, 1900257.	3.1	119
34	Synergistic Coassembly of Highly Wettable and Uniform Hole-Extraction Monolayers for Scaling Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1909509.	7.8	41
35	Highly efficient tin perovskite solar cells achieved in a wide oxygen concentration range. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2760-2768.	5.2	85
36	Efficient and stable tin-based perovskite solar cells by introducing π -conjugated Lewis base. <i>Science China Chemistry</i> , 2020, 63, 107-115.	4.2	160

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37	Templated growth of FASn_3 crystals for efficient tin perovskite solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 2896-2902.	15.6	165
38	Barrier Designs in Perovskite Solar Cells for Long-Term Stability. <i>Advanced Energy Materials</i> , 2020, 10, 2001610.	10.2	84
39	Ink Engineering of Inkjet Printing Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39082-39091.	4.0	85
40	The Application of Graphene Derivatives in Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000507.	4.6	35
41	Efficiency progress of inverted perovskite solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 3823-3847.	15.6	210
42	Perovskite Solar Cells: Barrier Designs in Perovskite Solar Cells for Long-Term Stability (<i>Adv. Energy</i>)	16.2	3
43	Efficient and stable tin perovskite solar cells enabled by amorphous-polycrystalline structure. <i>Nature Communications</i> , 2020, 11, 2678.	5.8	143
44	Surface-Controlled Oriented Growth of FASn_3 Crystals for Efficient Lead-free Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 902-912.	11.7	208
45	Efficient and Stable Tin Perovskite Solar Cells Enabled by Graded Heterostructure of Light-Absorbing Layer. <i>Solar Rrl</i> , 2020, 4, 2000240.	3.1	53
46	Highly Reproducible and Efficient FASn_3 Perovskite Solar Cells Fabricated with Volatilizable Reducing Solvent. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2965-2971.	2.1	115
47	Stabilizing Formamidinium Lead Iodide Perovskite by Sulfonyl-Functionalized Phenethylammonium Salt via Crystallization Control and Surface Passivation. <i>Solar Rrl</i> , 2020, 4, 2000069.	3.1	33
48	High Electron Affinity Enables Fast Hole Extraction for Efficient Flexible Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903487.	10.2	210
49	China's progress of perovskite solar cells in 2019. <i>Science Bulletin</i> , 2020, 65, 1306-1315.	4.3	12
50	$\text{CsPb}(\text{I Br})_3$ solar cells. <i>Science Bulletin</i> , 2019, 64, 1532-1539.	4.3	114
51	Stabilizing heterostructures of soft perovskite semiconductors. <i>Science</i> , 2019, 365, 687-691.	6.0	447
52	A general strategy to prepare high-quality inorganic charge-transporting layers for efficient and stable all-layer-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18603-18611.	5.2	31
53	Highly Stable and Efficient FASn_3 -Based Perovskite Solar Cells by Introducing Hydrogen Bonding. <i>Advanced Materials</i> , 2019, 31, e1903721.	11.1	266
54	Efficient Perovskite Solar Cell Modules with High Stability Enabled by Iodide Diffusion Barriers. <i>Joule</i> , 2019, 3, 2748-2760.	11.7	167

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55	Hybrid Inorganic Electron-Transporting Layer Coupled with a Halogen-Resistant Electrode in CsPbI ₂ Br-Based Perovskite Solar Cells to Achieve Robust Long-Term Stability. ACS Applied Materials & Interfaces, 2019, 11, 43303-43311.	4.0	25
56	Solar cells boosted by an improved charge-carrying material. Nature, 2019, 567, 465-467.	13.7	16
57	Reliable Measurement of Perovskite Solar Cells. Advanced Materials, 2019, 31, e1803231.	11.1	62
58	Pb-Reduced CsPb _{0.9} Zn _{0.1} I ₂ Br Thin Films for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1900896.	10.2	150
59	Efficient and Stable CsPbI ₃ Solar Cells via Regulating Lattice Distortion with Surface Organic Terminal Groups. Advanced Materials, 2019, 31, e1900605.	11.1	209
60	Efficient Defect Passivation for Perovskite Solar Cells by Controlling the Electron Density Distribution of Donor-Acceptor Molecules. Advanced Energy Materials, 2019, 9, 1803766.	10.2	280
61	A chemically inert bismuth interlayer enhances long-term stability of inverted perovskite solar cells. Nature Communications, 2019, 10, 1161.	5.8	225
62	Research activities on perovskite solar cells in China. Science China Chemistry, 2019, 62, 822-828.	4.2	22
63	Efficient and Stable Chemical Passivation on Perovskite Surface via Bidentate Anchoring. Advanced Energy Materials, 2019, 9, 1803573.	10.2	232
64	Study on Carrier Separation in Perovskite Solar Cells by Operando Profiling of Electrical Potential Distribution. Vacuum and Surface Science, 2019, 62, 9-14.	0.0	0
65	Recent advances in perovskite solar cells: Space potential and optoelectronic conversion mechanism. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 158401.	0.2	3
66	[6,6]-Phenyl-C ₆₁ -Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. ACS Nano, 2018, 12, 2403-2414.	7.3	114
67	Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with -COOH Functional Group. Advanced Energy Materials, 2018, 8, 1800715.	10.2	187
68	Improving the Performance of Inverted Formamidinium Tin Iodide Perovskite Solar Cells by Reducing the Energy-Level Mismatch. ACS Energy Letters, 2018, 3, 1116-1121.	8.8	105
69	Ligand-Free, Highly Dispersed NiO _x Nanocrystal for Efficient, Stable, Low-Temperature Processable Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800004.	3.1	58
70	Control of Electrical Potential Distribution for High-Performance Perovskite Solar Cells. Joule, 2018, 2, 296-306.	11.7	138
71	Low-Temperature Soft-Cover-Assisted Hydrolysis Deposition of Large-Scale TiO ₂ Layer for Efficient Perovskite Solar Modules. Nano-Micro Letters, 2018, 10, 49.	14.4	14
72	Solvent engineering for efficient inverted perovskite solar cells based on inorganic CsPbI ₂ Br light absorber. Materials Today Energy, 2018, 8, 125-133.	2.5	121

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73	Zinc ion as effective film morphology controller in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1093-1100.	2.5	55
74	Extrinsic Movable Ions in MAPbI ₃ Modulate Energy Band Alignment in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701981.	10.2	62
75	Panchromatic absorption of dye sensitized solar cells by co-Sensitization of triple organic dyes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 209-214.	2.5	31
76	Toward Long-Term Stable and Highly Efficient Perovskite Solar Cells via Effective Charge Transporting Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1800249.	10.2	85
77	In Situ Grain Boundary Functionalization for Stable and Efficient Inorganic CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801050.	10.2	195
78	Inorganic and Lead-Free AgBiI ₄ Rudorffite for Stable Solar Cell Applications. <i>ACS Applied Energy Materials</i> , 2018, 1, 4485-4492.	2.5	58
79	Surfactants for smoother films. <i>Nature Energy</i> , 2018, 3, 545-546.	19.8	4
80	Effect of spacers and anchoring groups of extended π -conjugated tetrathiafulvalene based sensitizers on the performance of dye sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 345-353.	2.5	20
81	Effect of different auxiliary ligands and anchoring ligands on neutral thiocyanate-free ruthenium(II) dyes bearing tetrazole chromophores for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2017, 140, 354-362.	2.0	13
82	Donor- π -Acceptor Based Stable Porphyrin Sensitizers for Dye-Sensitized Solar Cells: Effect of π -Conjugated Spacers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6464-6477.	1.5	101
83	Cyclometalated ruthenium complexes with 6-(ortho-methoxyphenyl)-2,2'-bipyridine as panchromatic dyes for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2017, 833, 61-70.	0.8	9
84	A comparative study of o,p-dimethoxyphenyl-based hole transport materials by altering π -linker units for highly efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10480-10485.	5.2	60
85	Thermally Stable MAPbI ₃ Perovskite Solar Cells with Efficiency of 19.19% and Area over 1 cm ² achieved by Additive Engineering. <i>Advanced Materials</i> , 2017, 29, 1701073.	11.1	541
86	Effect of thermal-convection-induced defects on the performance of perovskite solar cells. <i>Applied Physics Express</i> , 2017, 10, 075502.	1.1	7
87	Accurate and fast evaluation of perovskite solar cells with least hysteresis. <i>Applied Physics Express</i> , 2017, 10, 076601.	1.1	12
88	Diffusion engineering of ions and charge carriers for stable efficient perovskite solar cells. <i>Nature Communications</i> , 2017, 8, 15330.	5.8	356
89	Heteroleptic Ru(scp) cyclometalated complexes derived from benzimidazole-phenyl carbene ligands for dye-sensitized solar cells: an experimental and theoretical approach. <i>Materials Chemistry Frontiers</i> , 2017, 1, 947-957.	3.2	12
90	Stable Inverted Planar Perovskite Solar Cells with Low-Temperature-Processed Hole-Transport Bilayer. <i>Advanced Energy Materials</i> , 2017, 7, 1700763.	10.2	115

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91	A solvent- and vacuum-free route to large-area perovskite films for efficient solar modules. <i>Nature</i> , 2017, 550, 92-95.	13.7	618
92	Vertical recrystallization for highly efficient and stable formamidinium-based inverted-structure perovskite solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1942-1949.	15.6	402
93	Low-temperature soft-cover deposition of uniform large-scale perovskite films for high-performance solar cells. <i>Advanced Materials</i> , 2017, 29, 1701440.	11.1	74
94	First-Principles Study of Electron Injection and Defects at the $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ Interface of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5840-5847.	2.1	31
95	Stable and charge recombination minimized Γ -extended thioalkyl substituted tetrathiafulvalene dye-sensitized solar cells. <i>Materials Chemistry Frontiers</i> , 2017, 1, 460-467.	3.2	30
96	Organic-inorganic halide perovskite solar cell with $\text{CH}_3\text{NH}_3\text{PbI}_2\text{Br}$ as hole conductor. <i>Journal of Power Sources</i> , 2017, 339, 61-67.	4.0	33
97	Cost-performance analysis of perovskite solar modules. <i>Advanced Science</i> , 2017, 4, 1600269.	5.6	345
98	Photovoltaic Properties of Bithiazole-Based Polymers Synthesized by Direct C-H Arylation. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 347-352.	0.1	4
99	Bias voltage dependence of two-step photocurrent in GaAs/AlGaAs quantum well solar cells. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	3
100	Near-infrared squaraine co-sensitizer for high-efficiency dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14279-14285.	1.3	41
101	Annealing-free perovskite films by instant crystallization for efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8548-8553.	5.2	103
102	Enhanced Stability of Perovskite Solar Cells through Corrosion-free Pyridine Derivatives in Hole-transporting Materials. <i>Advanced Materials</i> , 2016, 28, 10738-10743.	11.1	147
103	n-Type Doping and Energy States Tuning in $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{SbI}_3$ Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 535-541.	8.8	160
104	Thiocyanate-free asymmetric ruthenium(II) dye sensitizers containing azole chromophores with near-IR light-harvesting capacity. <i>Journal of Power Sources</i> , 2016, 331, 100-111.	4.0	16
105	Perovskite solar cells with 18.21% efficiency and 1 cm^2 fabricated by heterojunction engineering. <i>Nature Energy</i> , 2016, 1, .	19.8	555
106	Soft-cover deposition of scaling-up uniform perovskite thin films for high cost-performance solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 2295-2301.	15.6	173
107	Study of Donor-Acceptor-Acceptor Architecture Sensitizers with Benzothiazole Acceptor for Dye-sensitized Solar Cells. <i>Energy Technology</i> , 2016, 4, 458-468.	1.8	8
108	Neutral and anionic tetrazole-based ligands in designing novel ruthenium dyes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 307, 416-425.	4.0	27

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109	First-principles study on the cosensitization effects of Ru and squaraine dyes on a TiO ₂ surface. <i>Surface Science</i> , 2016, 649, 66-71.	0.8	5
110	Surface Properties of CH ₃ NH ₃ PbI ₃ for Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 554-561.	7.6	145
111	Enhanced Photovoltaic Performances of Dye-Sensitized Solar Cells by Co-Sensitization of Benzothiadiazole and Squaraine-Based Dyes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4616-4623.	4.0	61
112	Dye-sensitized solar cells: Sensitized with triple dyes in ultraviolet to near infrared. , 2016, , .		0
113	4i1/4Žăfšăfăf-ă,1ă,«ă,ăf^ăé™1/2é»æ±ă®é«~ăŠ1çŽăŒ-ăŠèi“. <i>Electrochemistry</i> , 2016, 84, 454-459.	0.6	0
114	Fullerene-Structured MoSe ₂ Hollow Spheres Anchored on Highly Nitrogen-Doped Graphene as a Conductive Catalyst for Photovoltaic Applications. <i>Scientific Reports</i> , 2015, 5, 13214.	1.6	46
115	Synthesis of Thin Titania Photoanodes with Large Mesopores for Electricity-generating Windows. <i>Chemistry Letters</i> , 2015, 44, 656-658.	0.7	6
116	Bulk Heterojunction Photovoltaic Cells with Triphenylamine-Based Amorphous Polymer and Non-Halogenated Solvent Processing Provide Reproducible Performance. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2015, 28, 373-376.	0.1	2
117	Manganese powder promoted highly efficient and selective synthesis of fullerene mono- and biscycloadducts at room temperature. <i>Scientific Reports</i> , 2015, 5, 13920.	1.6	7
118	Synthesis and optical properties of photovoltaic materials based on the indenofluorines and ambipolar dithienonaphthothiadiazol. , 2015, , .		0
119	Efficient Synthesis and Photosensitizer Performance of Nonplanar Organic Donor-“Acceptor Molecules. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5856-5866.	0.9	9
120	High-“Quality Mixed-“Organic-“Cation Perovskites from a Phase-“Pure Non-“Stoichiometric Intermediate (FAI) _{1-x} <i>Advanced Materials</i> , 2015, 27, 4918-4923.	11.1	140
121	Selective Deposition of Insulating Metal Oxide in Perovskite Solar Cells with Enhanced Device Performance. <i>ChemSusChem</i> , 2015, 8, 2625-2629.	3.6	10
122	Film Morphology Control For High Efficiency Perovskite Solar Cells. , 2015, , .		0
123	Simple Fluorene Based Triarylamine Metal-Free Organic Sensitizers. <i>Electrochimica Acta</i> , 2015, 174, 581-587.	2.6	25
124	Emission from Charge-Transfer States in Bulk Heterojunction Organic Photovoltaic Cells Based on Ethylenedioxythiophene-Fluorene Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 620, 107-111.	0.4	4
125	Microwave-assisted polycondensation of 4-octylaniline with dibromoarylene. <i>Journal of Polymer Science Part A</i> , 2015, 53, 536-542.	2.5	3
126	A hybrid catalyst composed of reduced graphene oxide/Cu ₂ S quantum dots as a transparent counter electrode for dye sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 9075-9078.	1.7	16

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127	Triflic Acid Mediated Cascade Cyclization of Aryldiynes for the Synthesis of Indeno[1,2- <i>b</i>]chromenes: Application to Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 4065-4070.	1.7	26
128	Thieno[2,3- <i>a</i>]carbazole donor-based organic dyes for high efficiency dye-sensitized solar cells. <i>Organic Chemistry Frontiers</i> , 2015, 2, 253-258.	2.3	13
129	Synthesis and optical properties of photovoltaic materials based on the ambipolar dithienonaphthothiadiazole unit. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4229-4238.	5.2	14
130	Synthesis and photovoltaic properties of naphthobisthiadiazole-triphenylamine-based donor-acceptor π -conjugated polymer. <i>Polymer</i> , 2015, 58, 139-145.	1.8	16
131	Bifunctional alkyl chain barriers for efficient perovskite solar cells. <i>Chemical Communications</i> , 2015, 51, 7047-7050.	2.2	135
132	New ruthenium complexes (Ru[3+2+1]) bearing π -extended 4-methylstyryl terpyridine and unsymmetrical bipyridine ligands for DSSC applications. <i>Inorganica Chimica Acta</i> , 2015, 435, 46-52.	1.2	7
133	Tuning the Photovoltaic Performance of Benzocarbazole-Based Sensitizers for Dye-Sensitized Solar Cells: A Joint Experimental and Theoretical Study of the Influence of π -Spacers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17053-17064.	1.5	60
134	Improved power conversion efficiency of bulk-heterojunction organic photovoltaic cells using neat C70 as an effective acceptor for an amorphous π -conjugated polymer. <i>Organic Electronics</i> , 2015, 25, 99-104.	1.4	12
135	Monodentate pyrazole as a replacement of labile NCS for Ru (II) photosensitizers: Minimum electron injection free energy for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 120, 93-98.	2.0	19
136	Efficient thieno[3,2- <i>a</i>]carbazole-based organic dyes for dye-sensitized solar cells. <i>Tetrahedron</i> , 2015, 71, 6534-6540.	1.0	9
137	Hysteresis-free and highly stable perovskite solar cells produced via a chlorine-mediated interdiffusion method. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12081-12088.	5.2	123
138	Efficient and stable large-area perovskite solar cells with inorganic charge extraction layers. <i>Science</i> , 2015, 350, 944-948.	6.0	2,007
139	First-Principles Study of Ion Diffusion in Perovskite Solar Cell Sensitizers. <i>Journal of the American Chemical Society</i> , 2015, 137, 10048-10051.	6.6	582
140	Consecutive Morphology Controlling Operations for Highly Reproducible Mesostructured Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20707-20713.	4.0	43
141	Possibility of NCS Group Anchor for Ru Dye Adsorption to Anatase TiO ₂ (101) Surface: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 234-241.	1.5	4
142	Effects of various π -conjugated spacers in thiadiazole[3,4- <i>c</i>]pyridine-cored panchromatic organic dyes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3103-3112.	5.2	41
143	Tuning of spectral response by co-sensitization in black-dye based dye-sensitized solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 651-656.	0.8	14
144	Voltage dependence of two-step photocurrent generation in quantum dot intermediate band solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 108-113.	3.0	23

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145	Hybrid interfacial layer leads to solid performance improvement of inverted perovskite solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 629-640.	15.6	285
146	New heteroleptic benzimidazole functionalized Ru-sensitizer showing the highest efficiency for dye-sensitized solar cells. <i>Inorganic Chemistry Communication</i> , 2015, 51, 61-65.	1.8	12
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