Yi-Bing Cheng

List of Publications by Year
in descending order

544 papers	36,336 citations	3731 89 h-index	4885 168 g-index
560 all docs	560 docs citations	560 times ranked	28633 citing authors

#	Article	IF	Citations
1	A Fast Depositionâ€Crystallization Procedure for Highly Efficient Lead Iodide Perovskite Thinâ€Film Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 9898-9903.	13.8	1,292
2	Mesoporous Anatase TiO₂ Beads with High Surface Areas and Controllable Pore Sizes: A Superior Candidate for Highâ€Performance Dyeâ€Sensitized Solar Cells. Advanced Materials, 2009, 21, 2206-2210.	21.0	926
3	Degradation observations of encapsulated planar CH₃NH₃PbI₃ perovskite solar cells at high temperatures and humidity. Journal of Materials Chemistry A, 2015, 3, 8139-8147.	10.3	874
4	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	39.5	797
5	Thin-film Sb2Se3 photovoltaics with oriented one-dimensional ribbons and benign grain boundaries. Nature Photonics, 2015, 9, 409-415.	31.4	781
6	Universal passivation strategy to slot-die printed SnO2 for hysteresis-free efficient flexible perovskite solar module. Nature Communications, 2018, 9, 4609.	12.8	596
7	Highly efficient photocathodes for dye-sensitized tandem solar cells. Nature Materials, 2010, 9, 31-35.	27.5	585
8	Gas-assisted preparation of lead iodide perovskite films consisting of a monolayer of single crystalline grains for high efficiency planar solar cells. Nano Energy, 2014, 10, 10-18.	16.0	504
9	Resistance of alkali-activated slag concrete to acid attack. Cement and Concrete Research, 2003, 33, 1607-1611.	11.0	465
10	Rubidium Multication Perovskite with Optimized Bandgap for Perovskiteâ€Silicon Tandem with over 26% Efficiency. Advanced Energy Materials, 2017, 7, 1700228.	19.5	443
11	Functionalization of perovskite thin films with moisture-tolerant molecules. Nature Energy, 2016, 1, .	39.5	439
12	A novel quadruple-cation absorber for universal hysteresis elimination for high efficiency and stable perovskite solar cells. Energy and Environmental Science, 2017, 10, 2509-2515.	30.8	437
13	Benefit of Grain Boundaries in Organicâ€“Inorganic Halide Planar Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 875-880.	4.6	422
14	Dye-Sensitized Solar Cells Employing a Single Film of Mesoporous TiO₂ Beads Achieve Power Conversion Efficiencies Over 10%. ACS Nano, 2010, 4, 4420-4425.	14.6	412
15	Synthesis of Monodisperse Mesoporous Titania Beads with Controllable Diameter, High Surface Areas, and Variable Pore Diameters (14â^'23 nm). Journal of the American Chemical Society, 2010, 132, 4438-4444.	13.7	405
16	Dualâ€Function Scattering Layer of Submicrometerâ€Sized Mesoporous TiO₂ Beads for Highâ€Efficiency Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 1301-1305.	14.9	385
17	Understanding of perovskite crystal growth and film formation in scalable deposition processes. Chemical Society Reviews, 2020, 49, 1653-1687.	38.1	364
18	Highly Efficient Blueâ€Emitting Biâ€Doped Cs₂SnCl₆ Perovskite Variant: Photoluminescence Induced by Impurity Doping. Advanced Functional Materials, 2018, 28, 1801131.	14.9	358

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19	Lead halideâ€“templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. Science, 2021, 372, 1327-1332.	12.6	351
20	Alkali activation of Australian slag cements. Cement and Concrete Research, 1999, 29, 113-120.	11.0	347
21	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. Nature Communications, 2017, 8, 14120.	12.8	330
22	Sulfate attack on alkali-activated slag concrete. Cement and Concrete Research, 2002, 32, 211-216.	11.0	328
23	Solutionâ€Processed Antimony Selenide Heterojunction Solar Cells. Advanced Energy Materials, 2014, 4, 1301846.	19.5	318
24	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbIBr₂ Solar Cells. Advanced Energy Materials, 2017, 7, 1700946.	19.5	318
25	Ultra-thin high efficiency semitransparent perovskite solar cells. Nano Energy, 2015, 13, 249-257.	16.0	310
26	Flexible and Semitransparent Organolead Triiodide Perovskite Network Photodetector Arrays with High Stability. Nano Letters, 2015, 15, 7963-7969.	9.1	293
27	Hybrid interfacial layer leads to solid performance improvement of inverted perovskite solar cells. Energy and Environmental Science, 2015, 8, 629-640.	30.8	285
28	Effect of admixtures on properties of alkali-activated slag concrete. Cement and Concrete Research, 2000, 30, 1367-1374.	11.0	284
29	High-performance top-gated monolayer SnS2 field-effect transistors and their integrated logic circuits. Nanoscale, 2013, 5, 9666.	5.6	269
30	Comparison of solution intercalation and melt intercalation of polymerâ€“clay nanocomposites. Polymer, 2002, 43, 4251-4260.	3.8	268
31	Effect of elevated temperature curing on properties of alkali-activated slag concrete. Cement and Concrete Research, 1999, 29, 1619-1625.	11.0	260
32	Copper(I) Iodide as Holeâ€Conductor in Planar Perovskite Solar Cells: Probing the Origin of Jâ€“V Hysteresis. Advanced Functional Materials, 2015, 25, 5650-5661.	14.9	260
33	Sequential Deposition of CH₃NH₃PbI₃ on Planar NiO Film for Efficient Planar Perovskite Solar Cells. ACS Photonics, 2014, 1, 547-553.	6.6	245
34	Copperâ€“Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazineâ€Assisted Electrolytic Hydrogen Production. Advanced Energy Materials, 2019, 9, 1900390.	19.5	243
35	Hybrid Grapheneâ€“Perovskite Phototransistors with Ultrahigh Responsivity and Gain. Advanced Optical Materials, 2015, 3, 1389-1396.	7.3	240
36	Synergic Interface Optimization with Green Solvent Engineering in Mixed Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700576.	19.5	240

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37	Threeâ€Dimensional Hierarchical GeSe₂ Nanostructures for High Performance Flexible Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2013, 25, 1479-1486.	21.0	236
38	Encapsulation for improving the lifetime of flexible perovskite solar cells. Nano Energy, 2015, 18, 118-125.	16.0	232
39	Resistance of alkali-activated slag concrete to carbonation. Cement and Concrete Research, 2001, 31, 1277-1283.	11.0	221
40	CH₃NH₃PbI₃-Based Planar Solar Cells with Magnetron-Sputtered Nickel Oxide. ACS Applied Materials & Interfaces, 2014, 6, 22862-22870.	8.0	214
41	Layered Silicate Nanocomposites Based on Various High-Functionality Epoxy Resins:Â The Influence of Cure Temperature on Morphology, Mechanical Properties, and Free Volume. Macromolecules, 2003, 36, 1616-1625.	4.8	209
42	Fabrication of flexible dye sensitized solar cells on plastic substrates. Nano Energy, 2013, 2, 174-189.	16.0	209
43	A Power Pack Based on Organometallic Perovskite Solar Cell and Supercapacitor. ACS Nano, 2015, 9, 1782-1787.	14.6	201
44	Synthesis and Transfer of Large-Area Monolayer WS₂ Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. ACS Nano, 2015, 9, 6178-6187.	14.6	200
45	Perovskite Tandem Solar Cells. Advanced Energy Materials, 2017, 7, 1602761.	19.5	193
46	Direct observation of intrinsic twin domains in tetragonal CH3NH3PbI3. Nature Communications, 2017, 8, 14547.	12.8	191
47	Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 6597-6605.	10.3	188
48	Growth, patterning and alignment of organolead iodide perovskite nanowires for optoelectronic devices. Nanoscale, 2015, 7, 4163-4170.	5.6	181
49	Defect trapping states and charge carrier recombination in organicâ€“inorganic halide perovskites. Journal of Materials Chemistry C, 2016, 4, 793-800.	5.5	171
50	Photonics and Optoelectronics of 2D Metalâ€Halide Perovskites. Small, 2018, 14, e1800682.	10.0	168
51	Hydrothermal synthesis of ultrasmall CuCrO2 nanocrystal alternatives to NiO nanoparticles in efficient p-type dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 24760.	6.7	162
52	Selfâ€Adhesive Macroporous Carbon Electrodes for Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1802985.	14.9	161
53	Dye-sensitized nickel(II)oxide photocathodes for tandem solar cell applications. Nanotechnology, 2008, 19, 295304.	2.6	160
54	Insights into Planar CH₃NH₃PbI₃ Perovskite Solar Cells Using Impedance Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 4444-4453.	3.1	160

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55	Interfacial benzenethiol modification facilitates charge transfer and improves stability of cm-sized metal halide perovskite solar cells with up to 20% efficiency. Energy and Environmental Science, 2018, 11, 1880-1889.	30.8	148
56	The critical role of composition-dependent intragrain planar defects in the performance of MA1â€“xFAxPbI3 perovskite solar cells. Nature Energy, 2021, 6, 624-632.	39.5	144
57	Amorphous hole-transporting layer in slot-die coated perovskite solar cells. Nano Energy, 2017, 31, 210-217.	16.0	142
58	p-Type mesoscopic NiO as an active interfacial layer for carbon counter electrode based perovskite solar cells. Dalton Transactions, 2015, 44, 3967-3973.	3.3	138
59	Hierarchical silicon nanowires-carbon textiles matrix as a binder-free anode for high-performance advanced lithium-ion batteries. Scientific Reports, 2013, 3, 1622.	3.3	136
60	Recent progress in hybrid perovskite solar cells based on n-type materials. Journal of Materials Chemistry A, 2017, 5, 10092-10109.	10.3	136
61	Structural engineering using rubidium iodide as a dopant under excess lead iodide conditions for high efficiency and stable perovskites. Nano Energy, 2016, 30, 330-340.	16.0	133
62	Eliminated hysteresis and stabilized power output over 20% in planar heterojunction perovskite solar cells by compositional and surface modifications to the low-temperature-processed TiO₂ layer. Journal of Materials Chemistry A, 2017, 5, 9402-9411.	10.3	127
63	Light-induced reversal of ion segregation in mixed-halide perovskites. Nature Materials, 2021, 20, 55-61.	27.5	126
64	Formation of TiB2â€“TiC composites by reactive sintering. Ceramics International, 1999, 25, 353-358.	4.8	121
65	Diammonium and Monoammonium Mixedâ€Organicâ€Cation Perovskites for High Performance Solar Cells with Improved Stability. Advanced Energy Materials, 2017, 7, 1700444.	19.5	121
66	Structural and Chemical Changes to CH₃NH₃PbI₃ Induced by Electron and Gallium Ion Beams. Advanced Materials, 2018, 30, e1800629.	21.0	120
67	Thermal stability and flammability of silicone polymer composites. Polymer Degradation and Stability, 2006, 91, 1373-1379.	5.8	119
68	17% efficient printable mesoscopic PIN metal oxide framework perovskite solar cells using cesium-containing triple cation perovskite. Journal of Materials Chemistry A, 2017, 5, 22952-22958.	10.3	119
69	Effect of organo-phosphorus and nano-clay materials on the thermal and fire performance of epoxy resins. Journal of Applied Polymer Science, 2004, 91, 1233-1253.	2.6	118
70	[6,6]-Phenyl-C₆₁-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.	14.6	114
71	Optical analysis of perovskite/silicon tandem solar cells. Journal of Materials Chemistry C, 2016, 4, 5679-5689.	5.5	112
72	Light Illumination Induced Photoluminescence Enhancement and Quenching in Lead Halide Perovskite. Solar Rrl, 2017, 1, 1600001.	5.8	109

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73	Triggering the Passivation Effect of Potassium Doping in Mixedâ€Cation Mixedâ€Halide Perovskite by Light Illumination. Advanced Energy Materials, 2019, 9, 1901016.	19.5	109
74	TiO2 solâ€“gel blocking layers for dye-sensitized solar cells. Comptes Rendus Chimie, 2006, 9, 622-626.	0.5	104
75	Enhanced open-circuit voltage of p-type DSC with highly crystalline NiO nanoparticles. Chemical Communications, 2011, 47, 4808.	4.1	104
76	Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. Advanced Materials, 2017, 29, 1601715.	21.0	104
77	Role of Anion Vacancies in Nitrogen-Stabilized Zirconia. Journal of the American Ceramic Society, 1993, 76, 683-688.	3.8	103
78	Thin Films of Dendritic Anatase Titania Nanowires Enable Effective Holeâ€Blocking and Efficient Lightâ€Harvesting for Highâ€Performance Mesoscopic Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 3264-3272.	14.9	101
79	Stability Comparison of Perovskite Solar Cells Based on Zinc Oxide and Titania on Polymer Substrates. ChemSusChem, 2016, 9, 687-695.	6.8	101
80	Unraveling the Morphology of High Efficiency Polymer Solar Cells Based on the Donor Polymer PBDTTTâ€EFT. Advanced Energy Materials, 2015, 5, 1401259.	19.5	100
81	Low-Temperature TiO_x Compact Layer for Planar Heterojunction Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 11076-11083.	8.0	100
82	Silver Bismuth Sulfoiodide Solar Cells: Tuning Optoelectronic Properties by Sulfide Modification for Enhanced Photovoltaic Performance. Advanced Energy Materials, 2019, 9, 1803396.	19.5	100
83	Improved photocurrents for p-type dye-sensitized solar cells using nano-structured nickel(ii) oxide microballs. Energy and Environmental Science, 2012, 5, 8896.	30.8	99
84	Spiro-thiophene derivatives as hole-transport materials for perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 12139-12144.	10.3	96
85	Resistance of alkali-activated slag concrete to alkaliâ€“aggregate reaction. Cement and Concrete Research, 2001, 31, 331-334.	11.0	93
86	Remarkable photocurrent of p-type dye-sensitized solar cell achieved by size controlled CuGaO₂ nanoplates. Journal of Materials Chemistry A, 2014, 2, 2968-2976.	10.3	93
87	4-tert-Butylpyridine Free Hole Transport Materials for Efficient Perovskite Solar Cells: A New Strategy to Enhance the Environmental and Thermal Stability. ACS Energy Letters, 2018, 3, 1677-1682.	17.4	92
88	NiO nanosheets as efficient top hole transporters for carbon counter electrode based perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 24121-24127.	10.3	91
89	Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. Nano Energy, 2018, 49, 163-171.	16.0	91
90	Enhancing the Optoelectronic Performance of Perovskite Solar Cells via a Textured CH₃NH₃PbI₃ Morphology. Advanced Functional Materials, 2016, 26, 1278-1285.	14.9	90

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91	Low temperature processing of flexible planar perovskite solar cells with efficiency over 10%. Journal of Power Sources, 2015, 278, 325-331.	7.8	89
92	Lowâ€Cost N,Nâ€²â€Bicarbazoleâ€Based Dopantâ€Free Holeâ€Transporting Materials for Largeâ€Area Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1800538.	19.5	89
93	Efficient and stable planar all-inorganic perovskite solar cells based on high-quality CsPbBr3 films with controllable morphology. Journal of Energy Chemistry, 2020, 46, 8-15.	12.9	89
94	Modulating crystal growth of formamidiniumâ€“caesium perovskites for over 200 cm2 photovoltaic sub-modules. Nature Energy, 2022, 7, 528-536.	39.5	89
95	Print flexible solar cells. Nature, 2016, 539, 488-489.	27.8	85
96	LiTFSIâ€Free Spiroâ€OMeTADâ€Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. Advanced Energy Materials, 2019, 9, 1901519.	19.5	85
97	Phase Relationships and Related Microstructural Observations in the Caâ€Siâ€Alâ€Oâ€N System. Journal of the American Ceramic Society, 1998, 81, 1781-1788.	3.8	84
98	Aqueous dye-sensitized solar cell electrolytes based on the cobalt(<scp>ii</scp>)/(<scp>iii</scp>) tris(bipyridine) redox couple. Energy and Environmental Science, 2013, 6, 121-127.	30.8	81
99	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. ACS Applied Materials & Interfaces, 2018, 10, 14922-14929.	8.0	81
100	Hydrothermal synthesis of bismuth oxide needles. Materials Letters, 2002, 55, 46-49.	2.6	80
101	Anisotropic grain growth of Bi4Ti3O12 in molten salt fluxes. Materials Research Bulletin, 2003, 38, 567-576.	5.2	79
102	Low temperature chemically sintered nano-crystalline TiO2 electrodes for flexible dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 213, 30-36.	3.9	78
103	Chemical Dopant Engineering in Hole Transport Layers for Efficient Perovskite Solar Cells: Insight into the Interfacial Recombination. ACS Nano, 2018, 12, 10452-10462.	14.6	78
104	Dye-sensitized CuAlO₂ photocathodes for tandem solar cell applications. Journal of Photonics for Energy, 2011, 1, 011103.	1.3	77
105	Four-Terminal Tandem Solar Cells Using CH₃NH₃PbBr₃ by Spectrum Splitting. Journal of Physical Chemistry Letters, 2015, 6, 3931-3934.	4.6	77
106	Visualizing Phase Segregation in Mixedâ€Halide Perovskite Single Crystals. Angewandte Chemie - International Edition, 2019, 58, 2893-2898.	13.8	77
107	Microstructural Development of Calcium alphaâ€SiAlON Ceramics with Elongated Grains. Journal of the American Ceramic Society, 1999, 82, 421-428.	3.8	76
108	One-Pot Synthesis of Self-Stabilized Aqueous Nanoinks for Cu₂ZnSn(S,Se)₄ Solar Cells. Chemistry of Materials, 2014, 26, 3573-3578.	6.7	76

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109	Photoluminescence and electroluminescence imaging of perovskite solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1697-1705.	8.1	76
110	Fatigue behavior of planar CH3NH3PbI3 perovskite solar cells revealed by light on/off diurnal cycling. Nano Energy, 2016, 27, 509-514.	16.0	76
111	Planar versus mesoscopic perovskite microstructures: The influence of CH3NH3PbI3 morphology on charge transport and recombination dynamics. Nano Energy, 2016, 22, 439-452.	16.0	76
112	Wavelength-tunable waveguides based on polycrystalline organicâ€“inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	5.6	76
113	Microstructural Characterisations of Perovskite Solar Cells â€“ From Grains to Interfaces: Techniques, Features, and Challenges. Advanced Energy Materials, 2017, 7, 1700912.	19.5	76
114	Development of polymerâ€“ceramic composites for improved fire resistance. Journal of Materials Processing Technology, 2004, 153-154, 401-407.	6.3	75
115	On the Origin of Hysteresis in Perovskite Solar Cells. Advanced Functional Materials, 2016, 26, 6807-6813.	14.9	74
116	Large-area perovskite solar cells with Cs_xFA_{1â^'x}PbI_{3â^'y}Br_y thin films deposited by a vaporâ€“solid reaction method. Journal of Materials Chemistry A, 2018, 6, 21143-21148.	10.3	73
117	Improved Photovoltages for p-Type Dye-Sensitized Solar Cells Using CuCrO₂ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 16375-16379.	3.1	72
118	Pyrolysis behaviour of silicone-based ceramifying composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 425, 7-14.	5.6	70
119	Synthesis and Characterization of CuAlO₂ and AgAlO₂ Delafossite Oxides through Low-Temperature Hydrothermal Methods. Inorganic Chemistry, 2014, 53, 4106-4116.	4.0	70
120	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. Journal of Materials Chemistry A, 2017, 5, 22542-22558.	10.3	70
121	Thin Films of Tin Oxide Nanosheets Used as the Electron Transporting Layer for Improved Performance and Ambient Stability of Perovskite Photovoltaics. Solar Rrl, 2017, 1, 1700117.	5.8	69
122	Formation of strong ceramified ash from silicone-based compositions. Journal of Materials Science, 2005, 40, 5741-5749.	3.7	68
123	Enhanced Performance of pâ€Type Dyeâ€Sensitized Solar Cells Based on Ultrasmall Mgâ€Doped CuCrO₂ Nanocrystals. ChemSusChem, 2013, 6, 1432-1437.	6.8	68
124	Reversible Structural Swellâ€“Shrink and Recoverable Optical Properties in Hybrid Inorganicâ€“Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	14.6	68
125	Alkali Cation Doping for Improving the Structural Stability of 2D Perovskite in 3D/2D PSCs. Nano Letters, 2020, 20, 1240-1251.	9.1	68
126	Cold isostatic pressing technique for producing highly efficient flexible dyeâ€sensitised solar cells on plastic substrates. Progress in Photovoltaics: Research and Applications, 2012, 20, 321-332.	8.1	67

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127	Zinc Porphyrins with a Pyridineâ€Ringâ€Anchoring Group for Dyeâ€Sensitized Solar Cells. Chemistry - an Asian Journal, 2013, 8, 956-962.	3.3	67
128	Efficient mesoscopic perovskite solar cells based on the CH₃NH₃PbI₂Br light absorber. Journal of Materials Chemistry A, 2015, 3, 9116-9122.	10.3	67
129	Light induced degradation in mixed-halide perovskites. Journal of Materials Chemistry C, 2019, 7, 9326-9334.	5.5	67
130	Aluminum-Containing Nilrogen Melilite Phases. Journal of the American Ceramic Society, 1994, 77, 143-148.	3.8	66
131	Organic Sensitizers with Pyridine Ring Anchoring Group for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16433-16440.	3.1	66
132	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. Nature Communications, 2017, 8, 613.	12.8	66
133	Zn-doped TiO2 electrodes in dye-sensitized solar cells for enhanced photocurrent. Journal of Materials Chemistry, 2012, 22, 17128.	6.7	65
134	Formation of anatase TiO2 by microwave processing. Solar Energy Materials and Solar Cells, 2004, 84, 135-143.	6.2	64
135	Dâ€“Ïâ€“A structured porphyrins for efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 10008.	10.3	64
136	A printable graphene enhanced composite counter electrode for flexible dye-sensitized solar cells. Nano Energy, 2013, 2, 235-240.	16.0	64
137	Fine Tuning of Fluorene-Based Dye Structures for High-Efficiency p-Type Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 10614-10622.	8.0	64
138	Directing nucleation and growth kinetics in solution-processed hybrid perovskite thin-films. Science China Materials, 2017, 60, 617-628.	6.3	64
139	Study on gelcasting and properties of recrystallized silicon carbide. Ceramics International, 2002, 28, 369-376.	4.8	63
140	Effects of dispersants and soluble counter-ions on aqueous dispersibility of nano-sized zirconia powder. Ceramics International, 2004, 30, 219-224.	4.8	63
141	Nitrogen-Containing Tetragonal Zirconia. Journal of the American Ceramic Society, 1991, 74, 1135-1138.	3.8	62
142	Erosion of alumina ceramics by air- and water-suspended garnet particles. Wear, 2000, 240, 40-51.	3.1	62
143	Preferential orientation of muscovite in ceramifiable silicone composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 398, 180-187.	5.6	62
144	Investigation of the ceramifying process of modified siliconeâ€“silicate compositions. Journal of Materials Science, 2007, 42, 6046-6055.	3.7	62

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145	Saturation ratio of poly(ethylene oxide) to silicate in melt intercalated nanocomposites. European Polymer Journal, 2003, 39, 1917-1924.	5.4	61
146	Increased nanopore filling: Effect on monolithic all-solid-state dye-sensitized solar cells. Applied Physics Letters, 2007, 90, 213510.	3.3	61
147	Efficient and stable mixed perovskite solar cells using P3HT as a hole transporting layer. Journal of Materials Chemistry C, 2018, 6, 5733-5737.	5.5	61
148	Fabrication of textured bismuth titanate by templated grain growth using aqueous tape casting. Journal of the European Ceramic Society, 2003, 23, 2163-2169.	5.7	60
149	Modification of mesoporous TiO2electrodes by surface treatment with titanium(IV), indium(III) and zirconium(IV) oxide precursors: preparation, characterization and photovoltaic performance in dye-sensitized nanocrystalline solar cells. Nanotechnology, 2007, 18, 125608.	2.6	60
150	Role of Pores in the Carbothermal Reduction of Carbonâ^'Silica Nanocomposites into Silicon Carbide Nanostructures. Journal of Physical Chemistry C, 2007, 111, 636-641.	3.1	60
151	Sensitization of nickel oxide: improved carrier lifetime and charge collection by tuning nanoscale crystallinity. Chemical Communications, 2012, 48, 9885.	4.1	60
152	Synthesis and characterization of peryleneâ€“bithiopheneâ€“triphenylamine triads: studies on the effect of alkyl-substitution in p-type NiO based photocathodes. Journal of Materials Chemistry, 2012, 22, 7366.	6.7	60
153	A comparison of microwave and conventional heat treatments of nanocrystalline TiO2. Solar Energy Materials and Solar Cells, 2007, 91, 6-16.	6.2	59
154	Low-cost porous Cu2ZnSnSe4 film remarkably superior to noble Pt as counter electrode in quantum dot-sensitized solar cell system. Journal of Power Sources, 2013, 226, 359-362.	7.8	57
155	Probing Molecular and Crystalline Orientation in Solutionâ€Processed Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 5529-5536.	14.9	57
156	Highâ€throughput method to deposit continuous composition spread Sb₂(Se_xS_{1Ââ^'Âx})₃ thin film for photovoltaic application. Progress in Photovoltaics: Research and Applications, 2018, 26, 281-290.	8.1	57
157	Two-step sequential blade-coating of high quality perovskite layers for efficient solar cells and modules. Journal of Materials Chemistry A, 2020, 8, 8447-8454.	10.3	57
158	Stacking n-type layers: Effective route towards stable, efficient and hysteresis-free planar perovskite solar cells. Nano Energy, 2018, 44, 34-42.	16.0	56
159	Nanocomposites of poly(methyl methacrylate) and organically modified layered silicates by melt intercalation. Journal of Applied Polymer Science, 2004, 92, 2101-2115.	2.6	55
160	Controlling Interfacial Recombination in Aqueous Dyeâ€Sensitized Solar Cells by Octadecyltrichlorosilane Surface Treatment. Angewandte Chemie - International Edition, 2014, 53, 6933-6937.	13.8	55
161	Spray deposition of water-soluble multiwall carbon nanotube and Cu2ZnSnSe4 nanoparticle composites as highly efficient counter electrodes in a quantum dot-sensitized solar cell system. Nanoscale, 2013, 5, 6992.	5.6	54
162	Highly efficient light harvesting ruthenium sensitizers for dye-sensitized solar cells featuring triphenylamine donor antennas. Journal of Materials Chemistry A, 2014, 2, 4945-4953.	10.3	54

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163	Controlled Growth of Monocrystalline Organoâ€Lead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie - International Edition, 2017, 56, 12486-12491.	13.8	54
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