Jehad K El-Demellawi

List of Publications by Year
in descending order

255 papers	11,886 citations	34105 52 h-index	33894 99 g-index
255 all docs	255 docs citations	255 times ranked	13061 citing authors

#	Article	IF	Citations
1	A highly efficient flexible dye-sensitized solar cell based on nickel sulfide/platinum/titanium counter electrode. Nanoscale Research Letters, 2015, 10, 1.	5.7	959
2	Electrolytes in Dye-Sensitized Solar Cells. Chemical Reviews, 2015, 115, 2136-2173.	47.7	852
3	Counter electrodes in dye-sensitized solar cells. Chemical Society Reviews, 2017, 46, 5975-6023.	38.1	609
4	MXene hydrogels: fundamentals and applications. Chemical Society Reviews, 2020, 49, 7229-7251.	38.1	368
5	Synthesis and Properties of Poly(acrylic acid)/Mica Superabsorbent Nanocomposite. Macromolecular Rapid Communications, 2001, 22, 422-424.	3.9	253
6	Giant Photoluminescence Enhancement in CsPbCl₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. ACS Energy Letters, 2018, 3, 2301-2307.	17.4	244
7	An All-Solid-State Dye-Sensitized Solar Cell-Based Poly(<i>N</i>-alkyl-4-vinyl-pyridine iodide) Electrolyte with Efficiency of 5.64%. Journal of the American Chemical Society, 2008, 130, 11568-11569.	13.7	243
8	MXene Printing and Patterned Coating for Device Applications. Advanced Materials, 2020, 32, e1908486.	21.0	239
9	Progress on the electrolytes for dye-sensitized solar cells. Pure and Applied Chemistry, 2008, 80, 2241-2258.	1.9	234
10	Pulse electropolymerization of high performance PEDOT/MWCNT counter electrodes for Pt-free dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 19919.	6.7	189
11	High performance platinum-free counter electrode of molybdenum sulfideâ€“carbon used in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 1495-1501.	10.3	185
12	Tunable Multipolar Surface Plasmons in 2D Ti₃C₂<i>T</i>_{<i>x</i>} MXene Flakes. ACS Nano, 2018, 12, 8485-8493.	14.6	179
13	MXenes for Plasmonic Photodetection. Advanced Materials, 2019, 31, e1807658.	21.0	175
14	Suppressing Vacancy Defects and Grain Boundaries via Ostwald Ripening for Highâ€Performance and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e1904347.	21.0	172
15	Ti₃C₂T_{<i>x</i>} MXene-Activated Fast Gelation of Stretchable and Self-Healing Hydrogels: A Molecular Approach. ACS Nano, 2021, 15, 2698-2706.	14.6	157
16	A simple and high-effective electrolyte mediated with p-phenylenediamine for supercapacitor. Journal of Materials Chemistry, 2012, 22, 19025.	6.7	154
17	A Largeâ€Area Lightâ€Weight Dyeâ€Sensitized Solar Cell based on All Titanium Substrates with an Efficiency of 6.69% Outdoors. Advanced Materials, 2012, 24, 1884-1888.	21.0	146
18	Bifacial dye-sensitized solar cells: A strategy to enhance overall efficiency based on transparent polyaniline electrode. Scientific Reports, 2014, 4, 4028.	3.3	141

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19	Redox-active alkaline electrolyte for carbon-based supercapacitor with pseudocapacitive performance and excellent cyclability. RSC Advances, 2012, 2, 6736.	3.6	140
20	Enhancement of the Photovoltaic Performance of Dyeâ€Sensitized Solar Cells by Doping Y_{0.78}Yb_{0.20}Er_{0.02}F₃ in the Photoanode. Advanced Energy Materials, 2012, 2, 78-81.	19.5	131
21	Diboronâ€Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. Advanced Materials, 2018, 30, e1805085.	21.0	128
22	Influence of the COOH and COONa groups and crosslink density of poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (acid)/mo 50, 1050-1053.	3.1	124
23	Single-crystalline TiO2 nanoparticles for stable and efficient perovskite modules. Nature Nanotechnology, 2022, 17, 598-605.	31.5	121
24	Efficient and Stable 2D@3D/2D Perovskite Solar Cells Based on Dual Optimization of Grain Boundary and Interface. ACS Energy Letters, 2021, 6, 3614-3623.	17.4	113
25	Polymer Electrolyte Glue: A Universal Interfacial Modification Strategy for All-Solid-State Li Batteries. Nano Letters, 2019, 19, 2343-2349.	9.1	105
26	Pulse electrodeposition of CoS on MWCNT/Ti as a high performance counter electrode for a Pt-free dye-sensitized solar cell. Journal of Materials Chemistry A, 2013, 1, 1289-1295.	10.3	95
27	Glucose Aided Preparation of Tungsten Sulfide/Multi-Wall Carbon Nanotube Hybrid and Use as Counter Electrode in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 6530-6536.	8.0	94
28	Conducting Film from Graphite Oxide Nanoplatelets and Poly(acrylic acid) by Layer-by-Layer Self-Assembly. Langmuir, 2008, 24, 4800-4805.	3.5	90
29	A high performance Pt-free counter electrode of nickel sulfide/multi-wall carbon nanotube/titanium used in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 13885.	10.3	89
30	TiO₂quantum dots as superb compact block layers for high-performance CH₃NH₃PbI₃perovskite solar cells with an efficiency of 16.97%. Nanoscale, 2015, 7, 20539-20546.	5.6	87
31	Highly efficient tin perovskite solar cells achieved in a wide oxygen concentration range. Journal of Materials Chemistry A, 2020, 8, 2760-2768.	10.3	85
32	Crystal Morphology of Anatase Titania Nanocrystals Used in Dye-Sensitized Solar Cells. Crystal Growth and Design, 2008, 8, 247-252.	3.0	83
33	Mesoporous Co0.85Se nanosheets supported on Ni foam as a positive electrode material for asymmetric supercapacitor. Applied Surface Science, 2016, 362, 469-476.	6.1	83
34	Electrospun lead-doped titanium dioxide nanofibers and the in situ preparation of perovskite-sensitized photoanodes for use in high performance perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16856-16862.	10.3	81
35	High performance and stable perovskite solar cells using vanadic oxide as a dopant for spiro-OMeTAD. Journal of Materials Chemistry A, 2019, 7, 13256-13264.	10.3	81
36	Dual functions of YF3:Eu3+ for improving photovoltaic performance of dye-sensitized solar cells. Scientific Reports, 2013, 3, 2058.	3.3	80

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37	Highly Efficient CsPbBr₃ Planar Perovskite Solar Cells via Additive Engineering with NH₄SCN. ACS Applied Materials & Interfaces, 2020, 12, 10579-10587.	8.0	80
38	Facile Synthesis of Mesoporous Tin Oxide Spheres and Their Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 20140-20145.	3.1	71
39	Fluoroaromatic Cationâ€Assisted Planar Junction Perovskite Solar Cells with Improved <i>V</i>_{OC} and Stability: The Role of Fluorination Position. Solar Rrl, 2020, 4, 2000107.	5.8	68
40	Template-free synthesis of closed-microporous hybrid and its application in quasi-solid-state dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 524.	30.8	66
41	A C₆₀/TiO_x bilayer for conformal growth of perovskite films for UV stable perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 11086-11094.	10.3	64
42	Improved performance of a CoTe//AC asymmetric supercapacitor using a redox additive aqueous electrolyte. RSC Advances, 2018, 8, 7997-8006.	3.6	63
43	Preparation of high performance perovskite-sensitized nanoporous titanium dioxide photoanodes by in situ method for use in perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16531-16537.	10.3	62
44	Building Lithiophilic Ionâ€Conduction Highways on Garnetâ€Type Solidâ€State Li⁺ Conductors. Advanced Energy Materials, 2020, 10, 1904230.	19.5	62
45	Pyrrole: an additive for improving the efficiency and stability of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 11764-11770.	10.3	61
46	Modulated CH3NH3PbI3â^'xBrx film for efficient perovskite solar cells exceeding 18%. Scientific Reports, 2017, 7, 44603.	3.3	60
47	Porous Ti₃C₂T_{<i>x</i>} MXene Membranes for Highly Efficient Salinity Gradient Energy Harvesting. ACS Nano, 2022, 16, 792-800.	14.6	60
48	An ultraviolet responsive hybrid solar cell based on titania/poly(3-hexylthiophene). Scientific Reports, 2013, 3, 1283.	3.3	59
49	Solvent engineering for forming stonehenge-like PbI₂nano-structures towards efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 4376-4383.	10.3	59
50	Synthesis and photocatalytic properties of layered HNbWO6/(Pt, Cd0.8Zn0.2S) nanocomposites. Journal of Materials Chemistry, 2001, 11, 3343-3347.	6.7	58
51	Rear Interface Engineering to Suppress Migration of Iodide Ions for Efficient Perovskite Solar Cells with Minimized Hysteresis. Advanced Functional Materials, 2022, 32, 2107823.	14.9	57
52	MXene-Coated Membranes for Autonomous Solar-Driven Desalination. ACS Applied Materials & Interfaces, 2022, 14, 5265-5274.	8.0	57
53	Morphology controllable fabrication of Pt counter electrodes for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 3948.	6.7	56
54	Application of a novel redox-active electrolyte in MnO2-based supercapacitors. Science China Chemistry, 2012, 55, 1319-1324.	8.2	56

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55	An efficient titanium foil based perovskite solar cell: using a titanium dioxide nanowire array anode and transparent poly(3,4-ethylenedioxythiophene) electrode. RSC Advances, 2016, 6, 2778-2784.	3.6	51
56	Preparation of a starch-graft-acrylamide/kaolinite superabsorbent composite and the influence of the hydrophilic group on its water absorbency. Polymer International, 2003, 52, 1909-1912.	3.1	50
57	Synthesis of polyacrylate/polyethylene glycol interpenetrating network hydrogel and its sorption of heavy-metal ions. Science and Technology of Advanced Materials, 2009, 10, 015002.	6.1	47
58	Regulation of Interfacial Charge Transfer and Recombination for Efficient Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900198.	5.8	46
59	Preparation and water absorbency of a novel poly(acrylate-co-acrylamide)/vermiculite superabsorbent composite. Journal of Applied Polymer Science, 2007, 104, 735-739.	2.6	45
60	Fabrication and Photocatalytic Properties of HLaNb2O7/(Pt, Fe2O3) Pillared Nanomaterial. Journal of Physical Chemistry C, 2007, 111, 3624-3628.	3.1	43
61	High efficient PANI/Pt nanofiber counter electrode used in dye-sensitized solar cell. RSC Advances, 2012, 2, 4062.	3.6	42
62	Tuning the Fermi Level of TiO₂ Electron Transport Layer through Europium Doping for Highly Efficient Perovskite Solar Cells. Energy Technology, 2017, 5, 1820-1826.	3.8	42
63	Facile synthesis of Ni_{0.85}Se on Ni foam for high-performance asymmetric capacitors. RSC Advances, 2015, 5, 81474-81481.	3.6	41
64	Nickel selenide/reduced graphene oxide nanocomposite as counter electrode for high efficient dye-sensitized solar cells. Journal of Colloid and Interface Science, 2017, 498, 217-222.	9.4	41
65	Cadmium sulfide as an efficient electron transport material for inverted planar perovskite solar cells. Chemical Communications, 2018, 54, 3170-3173.	4.1	41
66	Toward Highly Reproducible, Efficient, and Stable Perovskite Solar Cells via Interface Engineering with CoO Nanoplates. ACS Applied Materials & Interfaces, 2019, 11, 32159-32168.	8.0	41
67	A high-performance asymmetric supercapacitor based on Ni₃S₂-coated NiSe arrays as positive electrode. New Journal of Chemistry, 2019, 43, 2389-2399.	2.8	41
68	MAPbI₃ Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. ACS Energy Letters, 2019, 4, 2579-2584.	17.4	40
69	Improved photovoltaic performance of perovskite solar cells by utilizing down-conversion NaYF₄:Eu³⁺ nanophosphors. Journal of Materials Chemistry C, 2019, 7, 937-942.	5.5	40
70	Supermolecule Cucurbituril Subnanoporous Carbon Supercapacitor (SCSCS). Nano Letters, 2021, 21, 2156-2164.	9.1	40
71	Two-step synthesis of polyacrylamide/polyacrylate interpenetrating network hydrogels and its swelling/deswelling properties. Journal of Materials Science, 2008, 43, 5884-5890.	3.7	39
72	Two-step synthesis of polyacrylamide/poly(vinyl alcohol)/polyacrylamide/graphite interpenetrating network hydrogel and its swelling, conducting and mechanical properties. Journal of Materials Science, 2008, 43, 5898-5904.	3.7	38

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73	Flexible dye-sensitized solar cell based on PCBM/P3HT heterojunction. Science Bulletin, 2011, 56, 325-330.	1.7	38
74	Flexible and macroporous network-structured catalysts composed of conducting polymers and Pt/Ag with high electrocatalytic activity for methanol oxidation. Journal of Materials Chemistry, 2011, 21, 13354.	6.7	37
75	Dual interfacial modification engineering with p-type NiO nanocrystals for preparing efficient planar perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 13034-13042.	5.5	37
76	CoBr₂-doping-induced efficiency improvement of CsPbBr₃ planar perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 1649-1655.	5.5	37
77	Application of upconversion luminescence in dye-sensitized solar cells. Science Bulletin, 2011, 56, 96-101.	1.7	36
78	A dye-sensitized solar cell based on PEDOT:PSS counter electrode. Science Bulletin, 2013, 58, 559-566.	1.7	36
79	Construction of NiTe/NiSe Composites on Ni Foam for Highâ€Performance Asymmetric Supercapacitor. ChemElectroChem, 2018, 5, 507-514.	3.4	36
80	Metal Halide Perovskite and Phosphorus Doped g-C₃N₄ Bulk Heterojunctions for Air-Stable Photodetectors. ACS Energy Letters, 2019, 4, 2315-2322.	17.4	36
81	Preparation of hierarchical tin oxide microspheres and their application in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 25335.	6.7	35
82	A gradient engineered hole-transporting material for monolithic series-type large-area perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 21161-21168.	10.3	35
83	Autonomous MXene-PVDF actuator for flexible solar trackers. Nano Energy, 2020, 77, 105277.	16.0	35
84	Additive Engineering by Bifunctional Guanidine Sulfamate for Highly Efficient and Stable Perovskites Solar Cells. Small, 2020, 16, e2004877.	10.0	35
85	High-Performance and Hysteresis-Free Perovskite Solar Cells Based on Rare-Earth-Doped SnO ₂ Mesoporous Scaffold. Research, 2019, 2019, 4049793.	5.7	35
86	Preparation and electrical conductivity of SiO2/polypyrrole nanocomposite. Journal of Materials Science, 2009, 44, 849-854.	3.7	34
87	Postpassivation of Cs_{0.05}(FA_{0.83}MA_{0.17})_{0.95}Pb(I_{0.83}Br_{0.17})<sub>3</sub Perovskite Films with Tris(pentafluorophenyl)borane. ACS Applied Materials & Interfaces, 2021, 13, 2472-2482.	8.0	34
88	High-temperature proton exchange membranes from ionic liquid absorbed/doped superabsorbents. Journal of Materials Chemistry, 2012, 22, 15836.	6.7	33
89	A redoxâ€mediatorâ€doped gel polymer electrolyte applied in quasiâ€solidâ€state supercapacitors. Journal of Applied Polymer Science, 2014, 131, .	2.6	33
90	Growth of Ni3Se2 nanosheets on Ni foam for asymmetric supercapacitors. Journal of Materials Science: Materials in Electronics, 2018, 29, 4649-4657.	2.2	33

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91	Surface Reconstruction and In Situ Formation of 2D Layer for Efficient and Stable 2D/3D Perovskite Solar Cells. Small Methods, 2021, 5, e2101000.	8.6	33
92	Synergistic Cobalt Sulfide/Eggshell Membrane Carbon Electrode. ACS Applied Materials & Interfaces, 2019, 11, 32244-32250.	8.0	32
93	Preparation of Gd2O3:Eu3+ downconversion luminescent material and its application in dye-sensitized solar cells. Science Bulletin, 2011, 56, 3114-3118.	1.7	31
94	Low-temperature solution-processed efficient electron-transporting layers based on BF₄^{âˆ’}-capped TiO₂ nanorods for high-performance planar perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 334-341.	5.5	31
95	Hydrothermal Synthesis of Hybrid Rodâ€Like Hollow CoWO₄/Co_{1âˆ’<i>x</i>}S for Highâ€Performance Supercapacitors. ChemElectroChem, 2018, 5, 1047-1055.	3.4	30
96	High-Efficiency Planar Hybrid Perovskite Solar Cells Using Indium Sulfide as Electron Transport Layer. ACS Applied Energy Materials, 2018, 1, 4050-4056.	5.1	30
97	Highâ€Efficiency Carbonâ€Based CsPbIBr₂ Solar Cells with Interfacial Energy Loss Suppressed by a Thin Bulkâ€Heterojunction Layer. Solar Rrl, 2021, 5, 2100375.	5.8	30
98	n-type absorber by Cd2+ doping achieves high-performance carbon-based CsPbIBr2 perovskite solar cells. Journal of Colloid and Interface Science, 2022, 608, 40-47.	9.4	30
99	Inkjet-printed Ti₃C₂T_x MXene electrodes for multimodal cutaneous biosensing. JPhys Materials, 2020, 3, 044004.	4.2	30
100	Preparation of porous polyacrylate/poly(ethylene glycol) interpenetrating network hydrogel and simplification of Flory theory. Journal of Materials Science, 2009, 44, 3712-3718.	3.7	29
101	A facile way to fabricate highly efficient photoelectrodes with chemical sintered scattering layers for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 15552.	6.7	28
102	An in situ polymerized PEDOT/Fe₃O₄ composite as a Pt-free counter electrode for highly efficient dye sensitized solar cells. RSC Advances, 2016, 6, 1637-1643.	3.6	28
103	Unprecedented Surface Plasmon Modes in Monoclinic MoO₂ Nanostructures. Advanced Materials, 2020, 32, e1908392.	21.0	28
104	Scaled Deposition of Ti₃C₂<i>T</i>_{<i>x</i>} MXene on Complex Surfaces: Application Assessment as Rear Electrodes for Silicon Heterojunction Solar Cells. ACS Nano, 2022, 16, 2419-2428.	14.6	28
105	Guanidinium iodide modification enabled highly efficient and stable all-inorganic CsPbBr3 perovskite solar cells. Electrochimica Acta, 2021, 365, 137360.	5.2	27
106	The preparation and electrical conductivity of polyacrylamide/graphite conducting hydrogel. Journal of Applied Polymer Science, 2008, 108, 1490-1495.	2.6	26
107	Synthesis of polyacrylate/poly(ethylene glycol) hydrogel and its absorption properties for heavy metal ions and dye. Polymer Composites, 2009, 30, 1183-1189.	4.6	26
108	Synergy of Plasmonic Silver Nanorod and Water for Enhanced Planar Perovskite Photovoltaic Devices. Solar Rrl, 2020, 4, 1900231.	5.8	26

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109	Synthesis of polyacrylate/polyethylene glycol interpenetrating network hydrogel and its sorption for Fe3+ ion. Journal of Materials Science, 2009, 44, 726-733.	3.7	25
110	Preparation of long persistent phosphor SrAl2O4:Eu2+, Dy3+ and its application in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 1350-1356.	2.2	25
111	MXene improves the stability and electrochemical performance of electropolymerized PEDOT films. APL Materials, 2020, 8, .	5.1	25
112	A multifunctional poly(acrylic acid)/gelatin hydrogel. Journal of Materials Research, 2009, 24, 1653-1661.	2.6	24
113	Highly conducting multilayer films from graphene nanosheets by a spin self-assembly method. Journal of Materials Chemistry, 2011, 21, 5378.	6.7	24
114	High-Performance Molybdenum Diselenide Electrodes Used in Dye-Sensitized Solar Cells and Supercapacitors. IEEE Journal of Photovoltaics, 2016, 6, 1196-1202.	2.5	24
115	Defect Control Strategy by Bifunctional Thioacetamide at Low Temperature for Highly Efficient Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12883-12891.	8.0	24
116	Phthalide and 1â€Iodooctadecane Synergistic Optimization for Highly Efficient and Stable Perovskite Solar Cells. Small, 2021, 17, e2103336.	10.0	23
117	Template-free synthesis of a hierarchical flower-like platinum counter electrode and its application in dye-sensitized solar cells. RSC Advances, 2012, 2, 5034.	3.6	22
118	Annealingâ€Free Cr₂O₃ Electronâ€Selective Layer for Efficient Hybrid Perovskite Solar Cells. ChemSusChem, 2018, 11, 619-628.	6.8	22
119	Cobalt selenide/tin selenide hybrid used as a high efficient counter electrode for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 10102-10108.	2.2	21
120	High-performance Pt-NiO nanosheet-based counter electrodes for dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2016, 20, 759-766.	2.5	21
121	Low-temperature solution-processing high quality Nb-doped SnO₂ nanocrystals-based electron transport layers for efficient planar perovskite solar cells. Functional Materials Letters, 2019, 12, 1850091.	1.2	21
122	Highâ€Efficiency Lowâ€Temperatureâ€Processed Mesoscopic Perovskite Solar Cells from SnO₂ Nanorod Selfâ€Assembled Microspheres. Solar Rrl, 2020, 4, 1900558.	5.8	21
123	Thiourea Interfacial Modification for Highly Efficient Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6700-6706.	5.1	20
124	Highly efficient and stable planar perovskite solar cells with K₃[Fe(CN)₆]-doped spiro-OMeTAD. Journal of Materials Chemistry C, 2021, 9, 7726-7733.	5.5	20
125	Preparation of sub-micron size anatase TiO2 particles for use as light-scattering centers in dye-sensitized solar cell. Journal of Materials Science: Materials in Electronics, 2010, 21, 833-837.	2.2	19
126	pâ€“n Heterojunction on dye-sensitized ZnO nanorod arrays and macroporous polyaniline network. RSC Advances, 2012, 2, 1863.	3.6	19

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127	Room-Temperature Reactivity Of Silicon Nanocrystals With Solvents: The Case Of Ketone And Hydrogen Production From Secondary Alcohols: Catalysis?. ACS Applied Materials & Interfaces, 2015, 7, 13794-13800.	8.0	19
128	Hydrothermal synthesis of CoMoO₄/Co₉S₈ hybrid nanotubes based on counter electrodes for highly efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 83029-83035.	3.6	19
129	Face-on oriented hydrophobic conjugated polymers as dopant-free hole-transport materials for efficient and stable perovskite solar cells with a fill factor approaching 85%. Journal of Materials Chemistry A, 2022, 10, 3409-3417.	10.3	19
130	Plasmonic Nb₂C<i>T</i>_{<i>x</i>} MXene-MAPbI₃ Heterostructure for Self-Powered Visible-NIR Photodiodes. ACS Nano, 2022, 16, 7904-7914.	14.6	19
131	Preparation of a novel polymer gel electrolyte based on N-methyl-quinoline iodide and its application in quasi-solid-state dye-sensitized solar cell. Journal of Sol-Gel Science and Technology, 2007, 42, 65-70.	2.4	18
132	Anhydrous proton exchange membrane operated at 200 Â°C and a well-aligned anode catalyst. Journal of Materials Chemistry, 2011, 21, 16010.	6.7	18
133	Nickel sulfide films with significantly enhanced electrochemical performance induced by self-assembly of 4-aminothiophenol and their application in dye-sensitized solar cells. RSC Advances, 2014, 4, 64068-64074.	3.6	18
134	Preparation of PAA-<i>g</i>-PEG/PANI polymer gel electrolyte and its application in quasi solid state dye-sensitized solar cells. Polymer Engineering and Science, 2015, 55, 322-326.	3.1	18
135	CH₃NH₃Br Additive for Enhanced Photovoltaic Performance and Air Stability of Planar Perovskite Solar Cells prepared by Twoâ€Step Dipping Method. Energy Technology, 2017, 5, 1887-1894.	3.8	18
136	Preparation of a three-dimensional interpenetrating network of TiO2 nanowires for large-area flexible dye-sensitized solar cells. RSC Advances, 2012, 2, 10550.	3.6	17
137	A strategy to enhance overall efficiency for dye-sensitized solar cells with a transparent electrode of nickel sulfide decorated with poly(3,4-ethylenedioxythiophene). RSC Advances, 2015, 5, 43639-43647.	3.6	17
138	Solvent engineering of LiTFSI towards high-efficiency planar perovskite solar cells. Solar Energy, 2019, 194, 321-328.	6.1	17
139	Synthesis, characterization, and properties of polypyrrole/expanded vermiculite intercalated nanocomposite. Journal of Applied Polymer Science, 2008, 110, 2862-2866.	2.6	16
140	Preparation of porous nanoparticle TiO2 films for flexible dye-sensitized solar cells. Science Bulletin, 2011, 56, 2649-2653.	1.7	16
141	Petal-like cobalt selenide nanosheets used as counter electrode in high efficient dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 2501-2507.	2.2	16
142	Multifunctional Rareâ€Earthâ€Doped Tin Oxide Compact Layers for Improving Performances of Photovoltaic Devices. Advanced Materials Interfaces, 2016, 3, 1600881.	3.7	16
143	Hybrid electrolytes based on ionic liquids and amorphous porous silicon nanoparticles: Organization and electrochemical properties. Applied Materials Today, 2017, 9, 10-20.	4.3	16
144	Enhanced photovoltage and stability of perovskite photovoltaics enabled by a cyclohexylmethylammonium iodide-based 2D perovskite passivation layer. Nanoscale, 2021, 13, 14915-14924.	5.6	16

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145	Highâ€performing dyeâ€sensitized solar cells based on reduced graphene oxide/<scp>PEDOTâ€PSS</scp> counter electrodes with sulfuric acid postâ€treatment. Journal of Applied Polymer Science, 2015, 132, .	2.6	15
146	PEDOT:PSS assisted preparation of a graphene/nickel cobalt oxide hybrid counter electrode to serve in efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 100159-100168.	3.6	15
147	An efficient solvent additive for the preparation of anion-cation-mixed hybrid and the high performance perovskite solar cells. Journal of Colloid and Interface Science, 2018, 531, 602-608.	9.4	15
148	Polymeric Sulfur as a Li Ion Conductor. Nano Letters, 2020, 20, 2191-2196.	9.1	15
149	Multifunctional Molecule Modification toward Efficient Carbonâ€Based Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Advanced Sustainable Systems, 2022, 6, .	5.3	15
150	Swelling behavior of poly(sodium acrylate)/kaoline superabsorbent composite. Polymer Engineering and Science, 2006, 46, 324-328.	3.1	14
151	Application of polymer gel electrolyte with graphite powder in quasiâ€solidâ€state dyeâ€sensitized solar cells. Polymer Composites, 2009, 30, 1687-1692.	4.6	14
152	Highâ€Performance Perovskite Solar Cells Using Iodine as Effective Dopant for Spiroâ€OMeTAD. Energy Technology, 2020, 8, 1901171.	3.8	14
153	Hotspots, Frontiers, and Emerging Trends of Superabsorbent Polymer Research: A Comprehensive Review. Frontiers in Chemistry, 2021, 9, 688127.	3.6	14
154	Facile secondary-template synthesis of polyaniline microtube array for enhancing glucose biosensitivity. Journal of Materials Chemistry, 2011, 21, 12927.	6.7	13
155	Influence of surfactants on the morphology and photocatalytic activity of Bi2WO6 by hydrothermal synthesis. Science China Chemistry, 2011, 54, 211-216.	8.2	13
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