Qunwei Tang

List of Publications by Year
in descending order

342 papers	15,288 citations	17405 63 h-index	33814 99 g-index
346 all docs	346 docs citations	346 times ranked	11272 citing authors

#	Article	IF	Citations
1	Application of microporous polyaniline counter electrode for dye-sensitized solar cells. Electrochemistry Communications, 2008, 10, 1299-1302.	2.3	457
2	Highâ€Purity Inorganic Perovskite Films for Solar Cells with 9.72â€‰% Efficiency. Angewandte Chemie - International Edition, 2018, 57, 3787-3791.	7.2	404
3	Lanthanide Ions Doped CsPbBr₃ Halides for HTMâ€Free 10.14%â€Efficiency Inorganic Perovskite Solar Cell with an Ultrahigh Openâ€Circuit Voltage of 1.594 V. Advanced Energy Materials, 2018, 8, 1802346.	10.2	387
4	The Main Progress of Perovskite Solar Cells in 2020â€“2021. Nano-Micro Letters, 2021, 13, 152.	14.4	250
5	Transparent Metal Selenide Alloy Counter Electrodes for Highâ€Efficiency Bifacial Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 14569-14574.	7.2	231
6	Platinumâ€Free Binary Coâ€Ni Alloy Counter Electrodes for Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 10799-10803.	7.2	205
7	All-inorganic CsPbBr₃ perovskite solar cell with 10.26% efficiency by spectra engineering. Journal of Materials Chemistry A, 2018, 6, 24324-24329.	5.2	182
8	Dissolution Engineering of Platinum Alloy Counter Electrodes in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 11448-11452.	7.2	168
9	A highly efficient TiO₂@ZnO nâ€“pâ€“n heterojunction nanorod photocatalyst. Nanoscale, 2013, 5, 588-593.	2.8	163
10	Tailored Lattice â€œTapeâ€•to Confine Tensile Interface for 11.08%â€Efficiency Allâ€Inorganic CsPbBr₃ Perovskite Solar Cell with an Ultrahigh Voltage of 1.702ÂV. Advanced Science, 2021, 8, e2101418.	5.6	161
11	Recent advances in critical materials for quantum dot-sensitized solar cells: a review. Journal of Materials Chemistry A, 2015, 3, 17497-17510.	5.2	158
12	Rapid Conversion from Carbohydrates to Large-Scale Carbon Quantum Dots for All-Weather Solar Cells. ACS Nano, 2017, 11, 1540-1547.	7.3	155
13	Lattice Modulation of Alkali Metal Cations Doped Cs_{1âˆ’<i>x</i>}R<i>_x</i>PbBr₃ Halides for Inorganic Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800164.	3.1	154
14	Counter electrodes from double-layered polyaniline nanostructures for dye-sensitized solar cell applications. Journal of Materials Chemistry A, 2013, 1, 317-323.	5.2	152
15	Interfacial Strain Release from the WS₂/CsPbBr₃ van der Waals Heterostructure for 1.7â€…V Voltage Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 21997-22001.	7.2	149
16	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.	11.1	146
17	Bifacial dye-sensitized solar cells: A strategy to enhance overall efficiency based on transparent polyaniline electrode. Scientific Reports, 2014, 4, 4028.	1.6	141
18	Inorganic perovskite solar cells: an emerging member of the photovoltaic community. Journal of Materials Chemistry A, 2019, 7, 21036-21068.	5.2	137

#	Article	IF	Citations
19	Interface Engineering of Imidazolium Ionic Liquids toward Efficient and Stable CsPbBr₃ Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 4540-4548.	4.0	132
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.	10.2	131
21	Review on recent progress of lead-free halide perovskites in optoelectronic applications. Nano Energy, 2021, 80, 105526.	8.2	130
22	Polyaniline/polyacrylamide conducting composite hydrogel with a porous structure. Carbohydrate Polymers, 2008, 74, 215-219.	5.1	124
23	Transparent nickel selenide alloy counter electrodes for bifacial dye-sensitized solar cells exceeding 10% efficiency. Nanoscale, 2014, 6, 12601-12608.	2.8	124
24	Alkylâ€Chainâ€Regulated Charge Transfer in Fluorescent Inorganic CsPbBr₃ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 4391-4395.	7.2	122
25	Nanotheranostics: Congo Red/Rutinâ€MNPs with Enhanced Magnetic Resonance Imaging and H₂O₂â€Responsive Therapy of Alzheimer's Disease in APPswe/PS1dE9 Transgenic Mice. Advanced Materials, 2015, 27, 5499-5505.	11.1	120
26	Precise stress control of inorganic perovskite films for carbon-based solar cells with an ultrahigh voltage of 1.622â€V. Nano Energy, 2020, 67, 104286.	8.2	119
27	Robust electrocatalysts from an alloyed Ptâ€"Ruâ€"M (M = Cr, Fe, Co, Ni, Mo)-decorated Ti mesh for hydrogen evolution by seawater splitting. Journal of Materials Chemistry A, 2016, 4, 6513-6520.	5.2	118
28	Holeâ€Boosted Cu(Cr,M)O₂ Nanocrystals for Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 16147-16151.	7.2	118
29	Simplified Perovskite Solar Cell with 4.1% Efficiency Employing Inorganic CsPbBr₃ as Light Absorber. Small, 2018, 14, e1704443.	5.2	113
30	Carbonâ€Electrodeâ€Tailored Allâ€Inorganic Perovskite Solar Cells To Harvest Solar and Waterâ€Vapor Energy. Angewandte Chemie - International Edition, 2018, 57, 5746-5749.	7.2	112
31	Nitrogen-doped carbon quantum dots from biomass via simple one-pot method and exploration of their application. Applied Surface Science, 2018, 434, 1079-1085.	3.1	112
32	9.13%-Efficiency and stable inorganic CsPbBr3 solar cells. Lead-free CsSnBr3-xIx quantum dots promote charge extraction. Journal of Power Sources, 2018, 399, 76-82.	4.0	105
33	Recent advances in alloy counter electrodes for dye-sensitized solar cells. A critical review. Electrochimica Acta, 2015, 178, 886-899.	2.6	104
34	Efficient dye-sensitized solar cells from polyanilineâ€"single wall carbon nanotube complex counter electrodes. Journal of Materials Chemistry A, 2014, 2, 3119.	5.2	103
35	Using eggshell membrane as a separator in supercapacitor. Journal of Power Sources, 2012, 206, 463-468.	4.0	101
36	Robust and stable ruthenium alloy electrocatalysts for hydrogen evolution by seawater splitting. Electrochimica Acta, 2016, 208, 180-187.	2.6	99

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37	Highâ€Purity Inorganic Perovskite Films for Solar Cells with 9.72â€‰% Efficiency. Angewandte Chemie, 2018, 130, 3849-3853.	1.6	99
38	Low-Cost Counter Electrodes From CoPt Alloys For Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 4812-4818.	4.0	96
39	A Solar Cell That Is Triggered by Sun and Rain. Angewandte Chemie - International Edition, 2016, 55, 5243-5246.	7.2	96
40	Divalent hard Lewis acid doped CsPbBr₃ films for 9.63%-efficiency and ultra-stable all-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 6877-6882.	5.2	96
41	Poly(3-hexylthiophene)/zinc phthalocyanine composites for advanced interface engineering of 10.03%-efficiency CsPbBr₃ perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 12635-12644.	5.2	94
42	Effect of Side-Group-Regulated Dipolar Passivating Molecules on CsPbBr₃ Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 2336-2342.	8.8	91
43	Conducting Film from Graphite Oxide Nanoplatelets and Poly(acrylic acid) by Layer-by-Layer Self-Assembly. Langmuir, 2008, 24, 4800-4805.	1.6	90
44	<i>p</i>â€Type Charge Transfer Doping of Graphene Oxide with (NiCo)_{1âˆ’<i>y</i>}Fe_{<i>y</i>}O_{<i>x</i>} for Airâ€Stable, Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 10608-10613.	7.2	89
45	Nodding Duck Structure Multi-track Directional Freestanding Triboelectric Nanogenerator toward Low-Frequency Ocean Wave Energy Harvesting. ACS Nano, 2021, 15, 9412-9421.	7.3	89
46	Superabsorbent conducting hydrogel from poly(acrylamide-aniline) with thermo-sensitivity and release properties. Carbohydrate Polymers, 2008, 73, 473-481.	5.1	87
47	Rapid charge-transfer in polypyrroleâ€“single wall carbon nanotube complex counter electrodes: Improved photovoltaic performances of dye-sensitized solar cells. Journal of Power Sources, 2014, 256, 170-177.	4.0	86
48	Using SnO₂ QDs and CsMBr₃ (Mâ€‰=â€‰Sn, Bi, Cu) QDs as Chargeâ€Transporting Materials for 10.6%â€Efficiency Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells with an Ultrahigh Openâ€Circuit Voltage of 1.610 V. Solar Rrl, 2019, 3, 1800284.	3.1	84
49	Toward efficient and air-stable carbon-based all-inorganic perovskite solar cells through substituting CsPbBr3 films with transition metal ions. Chemical Engineering Journal, 2019, 375, 121930.	6.6	82
50	Mesoporous TiO2 anodes for efficient dye-sensitized solar cells: An efficiency of 9.86% under one sun illumination. Journal of Power Sources, 2014, 267, 445-451.	4.0	74
51	Shape and Size Control of Oriented Polyaniline Microstructure by a Self-Assembly Method. Langmuir, 2009, 25, 5253-5257.	1.6	73
52	The unique dielectricity of inorganic perovskites toward high-performance triboelectric nanogenerators. Nano Energy, 2020, 69, 104418.	8.2	73
53	Complexation of polyaniline and graphene for efficient counter electrodes in dye-sensitized solar cells: Enhanced charge transfer ability. Journal of Power Sources, 2014, 256, 8-13.	4.0	71
54	Electric field sensitivity of conducting hydrogels with interpenetrating polymer network structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 177-183.	2.3	69

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55	Cumulative charging behavior of water droplet driven freestanding triboelectric nanogenerators toward hydrodynamic energy harvesting. Journal of Materials Chemistry A, 2020, 8, 7880-7888.	5.2	69
56	Two-steps synthesis of a poly(acrylateâ€"aniline) conducting hydrogel with an interpenetrated networks structure. Carbohydrate Polymers, 2007, 67, 332-336.	5.1	67
57	Quasi-solid-state dye-sensitized solar cell from polyaniline integrated poly(hexamethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5326.	5.2	66
58	PtRu nanofiber alloy counter electrodes for dye-sensitized solar cells. Journal of Power Sources, 2014, 258, 117-121.	4.0	66
59	Robust Polyanilineâ€"Graphene Complex Counter Electrodes For Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 8230-8236.	4.0	66
60	Nanowrinkle-patterned flexible woven triboelectric nanogenerator toward self-powered wearable electronics. Nano Energy, 2020, 73, 104797.	8.2	66
61	Preparation and photocatalytic degradability of TiO2/polyacrylamide composite. European Polymer Journal, 2007, 43, 2214-2220.	2.6	65
62	An all-weather solar cell that can harvest energy from sunlight and rain. Nano Energy, 2016, 30, 818-824.	8.2	65
63	Toward charge extraction in all-inorganic perovskite solar cells by interfacial engineering. Journal of Materials Chemistry A, 2018, 6, 21999-22004.	5.2	65
64	A multifunctional hydrogel with high conductivity, pH-responsive, thermo-responsive and release properties from polyacrylate/polyaniline hybrid. Carbohydrate Polymers, 2008, 73, 315-321.	5.1	64
65	Enhanced photovoltaic performances of quasi-solid-state dye-sensitized solar cells using a novel conducting gel electrolyte. Journal of Power Sources, 2014, 248, 923-930.	4.0	64
66	Toward fast charge extraction in all-inorganic CsPbBr3 perovskite solar cells by setting intermediate energy levels. Solar Energy, 2018, 171, 279-285.	2.9	64
67	Low-cost CoPt alloy counter electrodes for efficient dye-sensitized solar cells. Journal of Power Sources, 2014, 260, 180-185.	4.0	63
68	Alloyâ€Controlled Work Function for Enhanced Charge Extraction in Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells. ChemSusChem, 2018, 11, 1432-1437.	3.6	62
69	Enhanced Efficiency of Air-Stable CsPbBr₃ Perovskite Solar Cells by Defect Dual Passivation and Grain Size Enlargement with a Multifunctional Additive. ACS Applied Materials & Interfaces, 2020, 12, 36092-36101.	4.0	62
70	Grain Enlargement and Defect Passivation with Melamine Additives for High Efficiency and Stable CsPbBr₃ Perovskite Solar Cells. ChemSusChem, 2020, 13, 1834-1843.	3.6	62
71	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. Nano Energy, 2021, 82, 105773.	8.2	62
72	Self-assembly growth of oriented polyaniline arrays: A morphology and structure study. Polymer, 2008, 49, 5262-5267.	1.8	61

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73	Preparation of poly(acrylic acid)/gelatin/polyaniline gel-electrolyte and its application in quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2012, 203, 282-287.	4.0	60
74	Efficient quasi-solid-state dye-sensitized solar cells from graphene incorporated conducting gel electrolytes. Journal of Materials Chemistry A, 2014, 2, 2814.	5.2	60
75	Efficient quasi-solid-state dye-sensitized solar cells employing polyaniline and polypyrrole incorporated microporous conducting gel electrolytes. Journal of Power Sources, 2014, 254, 98-105.	4.0	59
76	Imbibition of polypyrrole into three-dimensional poly(hydroxyethyl methacrylate/glycerol) gel electrolyte for robust quasi-solid-state dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 8055.	5.2	57
77	New corrosion inhibitor acrylamide methyl ether for mild steel in 1 M HCl. Applied Surface Science, 2016, 371, 248-257.	3.1	57
78	Spray-assisted deposition of CsPbBr3 films in ambient air for large-area inorganic perovskite solar cells. Materials Today Energy, 2018, 10, 146-152.	2.5	57
79	Universal Dynamic Liquid Interface for Healing Perovskite Solar Cells. Advanced Materials, 2022, 34, e2202301.	11.1	57
80	Fabrication of a high-strength hydrogel with an interpenetrating network structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 91-98.	2.3	56
81	Multifunctional graphene incorporated conducting gel electrolytes in enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2014, 260, 225-232.	4.0	56
82	pâ€“n Heterojunction on Ordered ZnO Nanowires/Polyaniline Microrods Double Array. Langmuir, 2012, 28, 3972-3978.	1.6	54
83	Photoelectric conversion beyond sunny days: all-weather carbon quantum dot solar cells. Journal of Materials Chemistry A, 2017, 5, 2143-2150.	5.2	54
84	Alkali Metal Ion-Regulated Lead-free, All-Inorganic Double Perovskites for HTM-free, Carbon-Based Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 47408-47415.	4.0	54
85	Solid-state dye-sensitized solar cells from poly(ethylene oxide)/polyaniline electrolytes with catalytic and hole-transporting characteristics. Journal of Materials Chemistry A, 2015, 3, 5368-5374.	5.2	53
86	The era of water-enabled electricity generation from graphene. Journal of Materials Chemistry A, 2016, 4, 9730-9738.	5.2	53
87	Biomass converted carbon quantum dots for all-weather solar cells. Electrochimica Acta, 2017, 257, 259-266.	2.6	53
88	Phosphoric acid-imbibed three-dimensional polyacrylamide/poly(vinyl alcohol) hydrogel as a new class of high-temperature proton exchange membrane. Journal of Power Sources, 2013, 229, 36-41.	4.0	52
89	Transmission enhanced photoanodes for efficient dye-sensitized solar cells. Electrochimica Acta, 2014, 125, 646-651.	2.6	52
90	Thermalâ€Triggered Dynamic Disulfide Bond Selfâ€Heals Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	52

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91	A simple route to interpenetrating network hydrogel with high mechanical strength. Journal of Colloid and Interface Science, 2009, 339, 45-52.	5.0	51
92	Advanced Modification of Perovskite Surfaces for Defect Passivation and Efficient Charge Extraction in Air-Stable CsPbBr₃ Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 19286-19294.	3.2	51
93	Counter electrodes from conducting polymer intercalated graphene for dye-sensitized solar cells. Journal of Power Sources, 2016, 309, 231-237.	4.0	50
94	The synthesis and electrical conductivity of a polyacrylate/graphite hydrogel. Reactive and Functional Polymers, 2007, 67, 275-281.	2.0	49
95	Platinum Alloy Tailored Allâ€Weather Solar Cells for Energy Harvesting from Sun and Rain. Angewandte Chemie - International Edition, 2016, 55, 14412-14416.	7.2	49
96	Enhanced charge extraction by setting intermediate energy levels in all-inorganic CsPbBr3 perovskite solar cells. Electrochimica Acta, 2018, 279, 84-90.	2.6	49
97	Enhanced dye illumination in dye-sensitized solar cells using TiO₂/GeO₂photo-anodes. Journal of Materials Chemistry A, 2014, 2, 12459.	5.2	48
98	Synthesis of polyacrylate/polyethylene glycol interpenetrating network hydrogel and its sorption of heavy-metal ions. Science and Technology of Advanced Materials, 2009, 10, 015002.	2.8	47
99	High-temperature proton exchange membranes from microporous polyacrylamide caged phosphoric acid. Journal of Materials Chemistry A, 2013, 1, 630-636.	5.2	47
100	Cost-effective, transparent iron selenide nanoporous alloy counter electrode for bifacial dye-sensitized solar cell. Journal of Power Sources, 2015, 282, 79-86.	4.0	47
101	CdZnSe@ZnSe colloidal alloy quantum dots for high-efficiency all-inorganic perovskite solar cells. Chemical Communications, 2018, 54, 9575-9578.	2.2	47
102	Oxygen vacancies enriched Co3O4 nanoflowers with single layer porous structures for water splitting. Electrochimica Acta, 2020, 331, 135456.	2.6	47
103	Interfacial Strain Release from the WS₂/CsPbBr₃ van der Waals Heterostructure for 1.7â€…V Voltage Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 22181-22185.	1.6	47
104	Self-powered seesaw structured spherical buoys based on a hybrid triboelectricâ€"electromagnetic nanogenerator for sea surface wireless positioning. Energy and Environmental Science, 2022, 15, 621-632.	15.6	47
105	Generators to harvest ocean wave energy through electrokinetic principle. Nano Energy, 2018, 48, 128-133.	8.2	46
106	Tailoring all-inorganic cesium lead halide perovskites for robust triboelectric nanogenerators. Nano Energy, 2020, 70, 104514.	8.2	46
107	Preparation and water absorbency of a novel poly(acrylate-co-acrylamide)/vermiculite superabsorbent composite. Journal of Applied Polymer Science, 2007, 104, 735-739.	1.3	45
108	Preparation of PAA-g-CTAB/PANI polymer based gel-electrolyte and the application in quasi-solid-state dye-sensitized solar cells. Electrochimica Acta, 2011, 58, 52-57.	2.6	45

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109	Bifacial dye-sensitized solar cells with enhanced rear efficiency and power output. Nanoscale, 2014, 6, 15127-15133.	2.8	45
110	Ternary platinum alloy counter electrodes for high-efficiency dye-sensitized solar cells. Electrochimica Acta, 2016, 190, 85-91.	2.6	45
111	The synthesis and electrical conductivity of a polyacrylamide/Cu conducting hydrogel. Reactive and Functional Polymers, 2007, 67, 489-494.	2.0	44
112	Employment of ionic liquid-imbibed polymer gel electrolyte for efficient quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2014, 248, 816-821.	4.0	44
113	Bifacial dye-sensitized solar cells with transparent cobalt selenide alloy counter electrodes. Journal of Power Sources, 2015, 284, 349-354.	4.0	44
114	Electrospinning of polyaniline microfibers for anticorrosion coatings: An avenue of enhancing anticorrosion behaviors. Synthetic Metals, 2016, 212, 84-90.	2.1	44
115	Enhanced energy level alignment and hole extraction of carbon electrode for air-stable hole-transporting material-free CsPbBr3 perovskite solar cells. Solar Energy Materials and Solar Cells, 2020, 205, 110267.	3.0	43
116	High efficient PANI/Pt nanofiber counter electrode used in dye-sensitized solar cell. RSC Advances, 2012, 2, 4062.	1.7	42
117	Enhanced photocatalytic activity from Gd, La codoped TiO2 nanotube array photocatalysts under visible-light irradiation. Applied Surface Science, 2013, 284, 837-842.	3.1	42
118	Efficient In2S3 Quantum dotâ"sensitized Solar Cells: A Promising Power Conversion Efficiency of 1.30%. Electrochimica Acta, 2014, 139, 381-385.	2.6	42
119	Platinum-free binary Feâ€"Co nanofiber alloy counter electrodes for dye-sensitized solar cells. Journal of Power Sources, 2014, 268, 56-62.	4.0	42
120	Bifacial dye-sensitized solar cells from covalent-bonded polyanilineâ€"multiwalled carbon nanotube complex counter electrodes. Journal of Power Sources, 2015, 275, 489-497.	4.0	42
121	Highly transparent metal selenide counter electrodes for bifacial dye-sensitized solar cells. Journal of Power Sources, 2016, 317, 43-48.	4.0	42
122	Improved charge extraction through interface engineering for 10.12% efficiency and stable CsPbBr₃ perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 20987-20997.	5.2	42
123	Interfacial electric field enhanced charge density for robust triboelectric nanogenerators by tailoring metal/perovskite Schottky junction. Nano Energy, 2020, 73, 104747.	8.2	42
124	Multifunctional graphene incorporated polyacrylamide conducting gel electrolytes for efficient quasi-solid-state quantum dot-sensitized solar cells. Journal of Power Sources, 2015, 284, 369-376.	4.0	40
125	Can dye-sensitized solar cells generate electricity in the dark?. Nano Energy, 2017, 33, 266-271.	8.2	40
126	Lead-free CH3NH3SnBr3-xIx perovskite quantum dots for mesoscopic solar cell applications. Electrochimica Acta, 2018, 282, 807-812.	2.6	40

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127	Two-step synthesis of polyacrylamide/polyacrylate interpenetrating network hydrogels and its swelling/deswelling properties. Journal of Materials Science, 2008, 43, 5884-5890.	1.7	39
128	Transmission booster from SiO2 incorporated TiO2 crystallites: Enhanced conversion efficiency in dye-sensitized solar cells. Electrochimica Acta, 2014, 134, 281-286.	2.6	39
129	Triboelectric charging behaviors and photoinduced enhancement of alkaline earth ions doped inorganic perovskite triboelectric nanogenerators. Nano Energy, 2020, 77, 105280.	8.2	39
130	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.	1.7	38
131	Graphene enabled all-weather solar cells for electricity harvest from sun and rain. Journal of Materials Chemistry A, 2016, 4, 13235-13241.	5.2	38
132	Organic hole-transporting materials for 9.32%-efficiency and stable CsPbBr₃ perovskite solar cells. Materials Chemistry Frontiers, 2018, 2, 2239-2244.	3.2	38
133	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
134	Hierarchical Gdâ€"La codoped TiO2 microspheres as robust photocatalysts. International Journal of Hydrogen Energy, 2013, 38, 2634-2640.	3.8	37
135	A simple approach of enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells by integrating conducting polyaniline into electrical insulating gel electrolyte. Journal of Power Sources, 2014, 245, 468-474.	4.0	37
136	Lattice-tailored low-temperature processed electron transporting materials boost the open-circuit voltage of planar CsPbBr₃ perovskite solar cells up to 1.654 V. Journal of Materials Chemistry A, 2020, 8, 11859-11866.	5.2	37
137	Enhanced proton conductivity from phosphoric acid-imbibed crosslinked 3D polyacrylamide frameworks for high-temperature proton exchange membranes. International Journal of Hydrogen Energy, 2013, 38, 1016-1026.	3.8	36
138	Full-ionic liquid gel electrolytes: Enhanced photovoltaic performances in dye-sensitized solar cells. Journal of Power Sources, 2014, 264, 83-91.	4.0	36
139	Conducting gel electrolytes with microporous structures for efficient quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2015, 273, 1148-1155.	4.0	36
140	A branching NiCuPt alloy counter electrode for high-efficiency dye-sensitized solar cell. Applied Surface Science, 2016, 362, 28-34.	3.1	36
141	Carbon quantum dot tailored counter electrode for 7.01%-rear efficiency in a bifacial dye-sensitized solar cell. Chemical Communications, 2017, 53, 9894-9897.	2.2	36
142	Charge boosting and storage by tailoring rhombus all-inorganic perovskite nanoarrays for robust triboelectric nanogenerators. Nano Energy, 2020, 74, 104845.	8.2	36
143	Titanium dioxide/calcium fluoride nanocrystallite for efficient dye-sensitized solar cell. A strategy of enhancing light harvest. Journal of Power Sources, 2015, 275, 175-180.	4.0	35
144	Transparent molybdenum sulfide decorated polyaniline complex counter electrodes for efficient bifacial dye-sensitized solar cells. Solar Energy, 2017, 147, 470-478.	2.9	35

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145	Improved charge extraction with N-doped carbon quantum dots in dye-sensitized solar cells. Electrochimica Acta, 2018, 282, 255-262.	2.6	35
146	10.34%-efficient integrated CsPbBr3/bulk-heterojunction solar cells. Journal of Power Sources, 2019, 440, 227151.	4.0	35
147	Triboelectric sensor array for internet of things based smart traffic monitoring and management system. Nano Energy, 2022, 92, 106757.	8.2	35
148	Preparation and electrical conductivity of SiO2/polypyrrole nanocomposite. Journal of Materials Science, 2009, 44, 849-854.	1.7	34
149	A ceramic NiO/ZrO2 separator for high-temperature supercapacitor up to 140â€¯Â°C. Journal of Power Sources, 2018, 400, 126-134.	4.0	34
150	Co/Se and Ni/Se nanocomposite films prepared by magnetron sputtering as counter electrodes for dye-sensitized solar cells. Solar Energy, 2019, 180, 85-91.	2.9	34
151	High-temperature proton exchange membranes from ionic liquid absorbed/doped superabsorbents. Journal of Materials Chemistry, 2012, 22, 15836.	6.7	33
152	Carbide decorated carbon nanotube electrocatalyst for high-efficiency hydrogen evolution from seawater. RSC Advances, 2016, 6, 93267-93274.	1.7	33
153	Counter electrode electrocatalysts from one-dimensional coaxial alloy nanowires for efficient dye-sensitized solar cells. Journal of Power Sources, 2016, 302, 361-368.	4.0	33
154	Sonochemistry-assisted black/red phosphorus hybrid quantum dots for dye-sensitized solar cells. Journal of Power Sources, 2019, 410-411, 53-58.	4.0	33
155	High conducting multilayer films from poly(sodium styrenesulfonate) and graphite nanoplatelets by layer-by-layer self-assembly. Polymer, 2008, 49, 5329-5335.	1.8	32
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157	Counter electrodes from polyanilineâˆ'carbon nanotube complex/graphene oxide multilayers for dye-sensitized solar cell application. Electrochimica Acta, 2014, 125, 510-515.	2.6	32
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