

Qunwei Tang

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338
papers

11,606
citations

56
h-index

86
g-index

346
ext. papers

13,429
ext. citations

8.3
avg, IF

7.03
L-index

#	Paper	IF	Citations
338	Application of microporous polyaniline counter electrode for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2008 , 10, 1299-1302	5.1	429
337	High-Purity Inorganic Perovskite Films for Solar Cells with 9.72 % Efficiency. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3787-3791	16.4	318
336	Lanthanide Ions Doped CsPbBr ₃ Halides for HTM-Free 10.14%-Efficiency Inorganic Perovskite Solar Cell with an Ultrahigh Open-Circuit Voltage of 1.594 V. <i>Advanced Energy Materials</i> , 2018 , 8, 1802346	21.8	281
335	Transparent metal selenide alloy counter electrodes for high-efficiency bifacial dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14569-74	16.4	216
334	Platinum-free binary Co-Ni alloy counter electrodes for efficient dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10799-803	16.4	197
333	Dissolution Engineering of Platinum Alloy Counter Electrodes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11448-52	16.4	150
332	Counter electrodes from double-layered polyaniline nanostructures for dye-sensitized solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 317-323	13	146
331	Recent advances in critical materials for quantum dot-sensitized solar cells: a review. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17497-17510	13	143
330	A large-area light-weight dye-sensitized solar cell based on all titanium substrates with an efficiency of 6.69% outdoors. <i>Advanced Materials</i> , 2012 , 24, 1884-8	24	139
329	A highly efficient TiO ₂ @ZnO n-p-n heterojunction nanorod photocatalyst. <i>Nanoscale</i> , 2013 , 5, 588-93	7.7	137
328	All-inorganic CsPbBr ₃ perovskite solar cell with 10.26% efficiency by spectra engineering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24324-24329	13	133
327	Bifacial dye-sensitized solar cells: a strategy to enhance overall efficiency based on transparent polyaniline electrode. <i>Scientific Reports</i> , 2014 , 4, 4028	4.9	129
326	Enhancement of the Photovoltaic Performance of Dye-Sensitized Solar Cells by Doping Y _{0.78} Yb _{0.20} Er _{0.02} F ₃ in the Photoanode. <i>Advanced Energy Materials</i> , 2012 , 2, 78-81	21.8	127
325	Lattice Modulation of Alkali Metal Cations Doped Cs _{1-x} R _x PbBr ₃ Halides for Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800164	7.1	119
324	Rapid Conversion from Carbohydrates to Large-Scale Carbon Quantum Dots for All-Weather Solar Cells. <i>ACS Nano</i> , 2017 , 11, 1540-1547	16.7	118
323	Transparent nickel selenide alloy counter electrodes for bifacial dye-sensitized solar cells exceeding 10% efficiency. <i>Nanoscale</i> , 2014 , 6, 12601-8	7.7	111
322	Polyaniline/polyacrylamide conducting composite hydrogel with a porous structure. <i>Carbohydrate Polymers</i> , 2008 , 74, 215-219	10.3	106

321	Recent advances in alloy counter electrodes for dye-sensitized solar cells. A critical review. <i>Electrochimica Acta</i> , 2015 , 178, 886-899	6.7	99
320	Efficient dye-sensitized solar cells from polyaniline-single wall carbon nanotube complex counter electrodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3119	13	99
319	Carbon-Electrode-Tailored All-Inorganic Perovskite Solar Cells To Harvest Solar and Water-Vapor Energy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5746-5749	16.4	95
318	Inorganic perovskite solar cells: an emerging member of the photovoltaic community. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21036-21068	13	93
317	Simplified Perovskite Solar Cell with 4.1% Efficiency Employing Inorganic CsPbBr ₃ as Light Absorber. <i>Small</i> , 2018 , 14, e1704443	11	91
316	Low-cost counter electrodes from CoPt alloys for efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4812-8	9.5	91
315	Nanotheranostics: Congo Red/Rutin-MNPs with Enhanced Magnetic Resonance Imaging and H ₂ O ₂ -Responsive Therapy of Alzheimer's Disease in APP ^{swe} /PS1 ^{dE9} Transgenic Mice. <i>Advanced Materials</i> , 2015 , 27, 5499-505	24	90
314	A Solar Cell That Is Triggered by Sun and Rain. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5243-5246	16.4	87
313	Conducting film from graphite oxide nanoplatelets and poly(acrylic acid) by layer-by-layer self-assembly. <i>Langmuir</i> , 2008 , 24, 4800-5	4	84
312	Using eggshell membrane as a separator in supercapacitor. <i>Journal of Power Sources</i> , 2012 , 206, 463-468	8.9	81
311	Rapid charge-transfer in polypyrrole-single wall carbon nanotube complex counter electrodes: Improved photovoltaic performances of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 256, 170-177	8.9	80
310	9.13%-Efficiency and stable inorganic CsPbBr ₃ solar cells. Lead-free CsSnBr ₃ -xI _x quantum dots promote charge extraction. <i>Journal of Power Sources</i> , 2018 , 399, 76-82	8.9	79
309	Robust electrocatalysts from an alloyed PtRuM (M = Cr, Fe, Co, Ni, Mo)-decorated Ti mesh for hydrogen evolution by seawater splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6513-6520	13	78
308	The Main Progress of Perovskite Solar Cells in 2020-2021. <i>Nano-Micro Letters</i> , 2021 , 13, 152	19.5	78
307	Hole-Boosted Cu(Cr,M)O Nanocrystals for All-Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16147-16151	16.4	77
306	Superabsorbent conducting hydrogel from poly(acrylamide-aniline) with thermo-sensitivity and release properties. <i>Carbohydrate Polymers</i> , 2008 , 73, 473-481	10.3	77
305	High-Purity Inorganic Perovskite Films for Solar Cells with 9.72 % Efficiency. <i>Angewandte Chemie</i> , 2018 , 130, 3849-3853	3.6	76
304	Alkyl-Chain-Regulated Charge Transfer in Fluorescent Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4391-4395	16.4	73

303	Nitrogen-doped carbon quantum dots from biomass via simple one-pot method and exploration of their application. <i>Applied Surface Science</i> , 2018 , 434, 1079-1085	6.7	72
302	Complexation of polyaniline and graphene for efficient counter electrodes in dye-sensitized solar cells: Enhanced charge transfer ability. <i>Journal of Power Sources</i> , 2014 , 256, 8-13	8.9	71
301	Mesoporous TiO ₂ anodes for efficient dye-sensitized solar cells: An efficiency of 9.86% under one sun illumination. <i>Journal of Power Sources</i> , 2014 , 267, 445-451	8.9	71
300	Shape and size control of oriented polyaniline microstructure by a self-assembly method. <i>Langmuir</i> , 2009 , 25, 5253-7	4	70
299	Precise stress control of inorganic perovskite films for carbon-based solar cells with an ultrahigh voltage of 1.622 V. <i>Nano Energy</i> , 2020 , 67, 104286	17.1	70
298	Interface Engineering of Imidazolium Ionic Liquids toward Efficient and Stable CsPbBr ₃ Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4540-4548	9.5	69
297	Divalent hard Lewis acid doped CsPbBr ₃ films for 9.63%-efficiency and ultra-stable all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6877-6882	13	68
296	Two-steps synthesis of a poly(acrylate- <i>n</i> iline) conducting hydrogel with an interpenetrated networks structure. <i>Carbohydrate Polymers</i> , 2007 , 67, 332-336	10.3	66
295	Interfacial Strain Release from the WS ₂ /CsPbBr ₃ van der Waals Heterostructure for 1.7 V Voltage All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21997-22001	16.4	65
294	Using SnO ₂ QDs and CsMBr ₃ (M = Sn, Bi, Cu) QDs as Charge-Transporting Materials for 10.6%-Efficiency All-Inorganic CsPbBr ₃ Perovskite Solar Cells with an Ultrahigh Open-Circuit Voltage of 1.610 V. <i>Solar Rrl</i> , 2019 , 3, 1800284	7.1	65
293	PtRu nanofiber alloy counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 258, 117-121	8.9	64
292	Electric field sensitivity of conducting hydrogels with interpenetrating polymer network structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 346, 177-183	5.1	64
291	Poly(3-hexylthiophene)/zinc phthalocyanine composites for advanced interface engineering of 10.03%-efficiency CsPbBr ₃ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12635-12644 ¹³		63
290	Low-cost CoPt alloy counter electrodes for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 260, 180-185	8.9	62
289	Robust polyaniline-graphene complex counter electrodes for efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8230-6	9.5	61
288	Quasi-solid-state dye-sensitized solar cell from polyaniline integrated poly(hexamethylene diisocyanate tripolymer/polyethylene glycol) gel electrolyte. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5326	13	61
287	Preparation and photocatalytic degradability of TiO ₂ /polyacrylamide composite. <i>European Polymer Journal</i> , 2007 , 43, 2214-2220	5.2	61
286	A multifunctional hydrogel with high conductivity, pH-responsive, thermo-responsive and release properties from polyacrylate/polyaniline hybrid. <i>Carbohydrate Polymers</i> , 2008 , 73, 315-321	10.3	61

285	Enhanced photovoltaic performances of quasi-solid-state dye-sensitized solar cells using a novel conducting gel electrolyte. <i>Journal of Power Sources</i> , 2014 , 248, 923-930	8.9	59
284	Efficient quasi-solid-state dye-sensitized solar cells from graphene incorporated conducting gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2814	13	58
283	Self-assembly growth of oriented polyaniline arrays: A morphology and structure study. <i>Polymer</i> , 2008 , 49, 5262-5267	3.9	58
282	Preparation of poly(acrylic acid)/gelatin/polyaniline gel-electrolyte and its application in quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012 , 203, 282-287	8.9	55
281	An all-weather solar cell that can harvest energy from sunlight and rain. <i>Nano Energy</i> , 2016 , 30, 818-824	17.1	55
280	Toward charge extraction in all-inorganic perovskite solar cells by interfacial engineering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21999-22004	13	54
279	Imbibition of polypyrrole into three-dimensional poly(hydroxyethyl methacrylate/glycerol) gel electrolyte for robust quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8055	13	54
278	Toward fast charge extraction in all-inorganic CsPbBr ₃ perovskite solar cells by setting intermediate energy levels. <i>Solar Energy</i> , 2018 , 171, 279-285	6.8	54
277	Toward efficient and air-stable carbon-based all-inorganic perovskite solar cells through substituting CsPbBr ₃ films with transition metal ions. <i>Chemical Engineering Journal</i> , 2019 , 375, 121930	14.7	53
276	Robust and stable ruthenium alloy electrocatalysts for hydrogen evolution by seawater splitting. <i>Electrochimica Acta</i> , 2016 , 208, 180-187	6.7	53
275	Transmission enhanced photoanodes for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 125, 646-651	6.7	52
274	p-n Heterojunction on ordered ZnO nanowires/polyaniline microrods double array. <i>Langmuir</i> , 2012 , 28, 3972-8	4	52
273	Review on recent progress of lead-free halide perovskites in optoelectronic applications. <i>Nano Energy</i> , 2021 , 80, 105526	17.1	51
272	Multifunctional graphene incorporated conducting gel electrolytes in enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 260, 225-232	8.9	50
271	Efficient quasi-solid-state dye-sensitized solar cells employing polyaniline and polypyrrole incorporated microporous conducting gel electrolytes. <i>Journal of Power Sources</i> , 2014 , 254, 98-105	8.9	50
270	A simple route to interpenetrating network hydrogel with high mechanical strength. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 45-52	9.3	48
269	Enhanced dye illumination in dye-sensitized solar cells using TiO ₂ /GeO ₂ photo-anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12459	13	47
268	Phosphoric acid-imbibed three-dimensional polyacrylamide/poly(vinyl alcohol) hydrogel as a new class of high-temperature proton exchange membrane. <i>Journal of Power Sources</i> , 2013 , 229, 36-41	8.9	47

267	Fabrication of a high-strength hydrogel with an interpenetrating network structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 346, 91-98	5.1	47
266	The synthesis and electrical conductivity of a polyacrylate/graphite hydrogel. <i>Reactive and Functional Polymers</i> , 2007 , 67, 275-281	4.6	46
265	Tailored Lattice "Tape" to Confine Tensile Interface for 11.08%-Efficiency All-Inorganic CsPbBr Perovskite Solar Cell with an Ultrahigh Voltage of 1.702V. <i>Advanced Science</i> , 2021 , 8, e2101418	13.6	46
264	Photoelectric conversion beyond sunny days: all-weather carbon quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2143-2150	13	45
263	Alloy-Controlled Work Function for Enhanced Charge Extraction in All-Inorganic CsPbBr Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 1432-1437	8.3	45
262	High-temperature proton exchange membranes from microporous polyacrylamide caged phosphoric acid. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 630-636	13	45
261	Spray-assisted deposition of CsPbBr ₃ films in ambient air for large-area inorganic perovskite solar cells. <i>Materials Today Energy</i> , 2018 , 10, 146-152	7	45
260	Solid-state dye-sensitized solar cells from poly(ethylene oxide)/polyaniline electrolytes with catalytic and hole-transporting characteristics. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5368-5374	13	44
259	Platinum Alloy Tailored All-Weather Solar Cells for Energy Harvesting from Sun and Rain. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14412-14416	16.4	44
258	New corrosion inhibitor acrylamide methyl ether for mild steel in 1 M HCl. <i>Applied Surface Science</i> , 2016 , 371, 248-257	6.7	43
257	Employment of ionic liquid-imbibed polymer gel electrolyte for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 248, 816-821	8.9	43
256	p-Type Charge Transfer Doping of Graphene Oxide with (NiCo) Fe O for Air-Stable, All-Inorganic CsPbI ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10608-10613	16.4	43
255	Preparation and water absorbency of a novel poly(acrylate-co-acrylamide)/vermiculite superabsorbent composite. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 735-739	2.9	42
254	Bifacial dye-sensitized solar cells from covalent-bonded polyaniline-multiwalled carbon nanotube complex counter electrodes. <i>Journal of Power Sources</i> , 2015 , 275, 489-497	8.9	41
253	Platinum-free binary FeCo nanofiber alloy counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 268, 56-62	8.9	41
252	Cost-effective, transparent iron selenide nanoporous alloy counter electrode for bifacial dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2015 , 282, 79-86	8.9	41
251	High efficient PANI/Pt nanofiber counter electrode used in dye-sensitized solar cell. <i>RSC Advances</i> , 2012 , 2, 4062	3.7	41
250	The synthesis and electrical conductivity of a polyacrylamide/Cu conducting hydrogel. <i>Reactive and Functional Polymers</i> , 2007 , 67, 489-494	4.6	41

249	The era of water-enabled electricity generation from graphene. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9730-9738	13	41
248	Ternary platinum alloy counter electrodes for high-efficiency dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016 , 190, 85-91	6.7	40
247	Counter electrodes from conducting polymer intercalated graphene for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 309, 231-237	8.9	40
246	Electrospinning of polyaniline microfibers for anticorrosion coatings: An avenue of enhancing anticorrosion behaviors. <i>Synthetic Metals</i> , 2016 , 212, 84-90	3.6	40
245	Preparation of PAA-g-CTAB/PANI polymer based gel-electrolyte and the application in quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011 , 58, 52-57	6.7	40
244	The unique dielectricity of inorganic perovskites toward high-performance triboelectric nanogenerators. <i>Nano Energy</i> , 2020 , 69, 104418	17.1	39
243	CdZnSe@ZnSe colloidal alloy quantum dots for high-efficiency all-inorganic perovskite solar cells. <i>Chemical Communications</i> , 2018 , 54, 9575-9578	5.8	38
242	Highly transparent metal selenide counter electrodes for bifacial dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 317, 43-48	8.9	38
241	Enhanced charge extraction by setting intermediate energy levels in all-inorganic CsPbBr ₃ perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 279, 84-90	6.7	38
240	Bifacial dye-sensitized solar cells with transparent cobalt selenide alloy counter electrodes. <i>Journal of Power Sources</i> , 2015 , 284, 349-354	8.9	37
239	Hierarchical Gd ³⁺ /La codoped TiO ₂ microspheres as robust photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2634-2640	6.7	37
238	Enhanced photocatalytic activity from Gd, La codoped TiO ₂ nanotube array photocatalysts under visible-light irradiation. <i>Applied Surface Science</i> , 2013 , 284, 837-842	6.7	37
237	Transmission booster from SiO ₂ incorporated TiO ₂ crystallites: Enhanced conversion efficiency in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 134, 281-286	6.7	36
236	Bifacial dye-sensitized solar cells with enhanced rear efficiency and power output. <i>Nanoscale</i> , 2014 , 6, 15127-33	7.7	36
235	Synthesis of polyacrylate/polyethylene glycol interpenetrating network hydrogel and its sorption of heavy-metal ions. <i>Science and Technology of Advanced Materials</i> , 2009 , 10, 015002	7.1	36
234	Flexible and macroporous network-structured catalysts composed of conducting polymers and Pt/Ag with high electrocatalytic activity for methanol oxidation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13354		35
233	Two-step synthesis of polyacrylamide/polyacrylate interpenetrating network hydrogels and its swelling/deswelling properties. <i>Journal of Materials Science</i> , 2008 , 43, 5884-5890	4.3	35
232	Biomass converted carbon quantum dots for all-weather solar cells. <i>Electrochimica Acta</i> , 2017 , 257, 259-266		34

231	Multifunctional graphene incorporated polyacrylamide conducting gel electrolytes for efficient quasi-solid-state quantum dot-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 284, 369-376	8.9	34
230	Titanium dioxide/calcium fluoride nanocrystallite for efficient dye-sensitized solar cell. A strategy of enhancing light harvest. <i>Journal of Power Sources</i> , 2015 , 275, 175-180	8.9	34
229	Generators to harvest ocean wave energy through electrokinetic principle. <i>Nano Energy</i> , 2018 , 48, 128-133	13.1	34
228	Efficient In ₂ S ₃ Quantum dot Sensitized Solar Cells: A Promising Power Conversion Efficiency of 1.30%. <i>Electrochimica Acta</i> , 2014 , 139, 381-385	6.7	34
227	A simple approach of enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells by integrating conducting polyaniline into electrical insulating gel electrolyte. <i>Journal of Power Sources</i> , 2014 , 245, 468-474	8.9	34
226	Preparation and electrical conductivity of SiO ₂ /polypyrrole nanocomposite. <i>Journal of Materials Science</i> , 2009 , 44, 849-854	4.3	34
225	Counter electrode electrocatalysts from one-dimensional coaxial alloy nanowires for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 302, 361-368	8.9	33
224	Graphene enabled all-weather solar cells for electricity harvest from sun and rain. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13235-13241	13	33
223	Nanowrinkle-patterned flexible woven triboelectric nanogenerator toward self-powered wearable electronics. <i>Nano Energy</i> , 2020 , 73, 104797	17.1	33
222	Can dye-sensitized solar cells generate electricity in the dark?. <i>Nano Energy</i> , 2017 , 33, 266-271	17.1	32
221	Conducting gel electrolytes with microporous structures for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 273, 1148-1155	8.9	32
220	Grain Enlargement and Defect Passivation with Melamine Additives for High Efficiency and Stable CsPbBr Perovskite Solar Cells. <i>ChemSusChem</i> , 2020 , 13, 1834-1843	8.3	32
219	Enhanced proton conductivity from phosphoric acid-imbibed crosslinked 3D polyacrylamide frameworks for high-temperature proton exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1016-1026	6.7	32
218	A branching NiCuPt alloy counter electrode for high-efficiency dye-sensitized solar cell. <i>Applied Surface Science</i> , 2016 , 362, 28-34	6.7	31
217	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. <i>Nano Energy</i> , 2021 , 82, 105773	17.1	31
216	Transparent molybdenum sulfide decorated polyaniline complex counter electrodes for efficient bifacial dye-sensitized solar cells. <i>Solar Energy</i> , 2017 , 147, 470-478	6.8	30
215	Cumulative charging behavior of water droplet driven freestanding triboelectric nanogenerators toward hydrodynamic energy harvesting. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7880-7888	13	30
214	Carbon quantum dot tailored counter electrode for 7.01%-rear efficiency in a bifacial dye-sensitized solar cell. <i>Chemical Communications</i> , 2017 , 53, 9894-9897	5.8	30

213	Dissolution Engineering of Platinum Alloy Counter Electrodes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2015 , 127, 11610-11614	3.6	30
212	Full-ionic liquid gel electrolytes: Enhanced photovoltaic performances in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 264, 83-91	8.9	30
211	High-temperature proton exchange membranes from ionic liquid absorbed/doped superabsorbents. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15836		30
210	Templateless self-assembly of highly oriented polyaniline arrays. <i>Chemical Communications</i> , 2009 , 2166-5.8		30
209	Enhanced Efficiency of Air-Stable CsPbBr Perovskite Solar Cells by Defect Dual Passivation and Grain Size Enlargement with a Multifunctional Additive. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36092-36101	9.5	30
208	Effect of Side-Group-Regulated Dipolar Passivating Molecules on CsPbBr ₃ Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021 , 6, 2336-2342	20.1	30
207	Organic hole-transporting materials for 9.32%-efficiency and stable CsPbBr ₃ perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 2239-2244	7.8	30
206	Advanced Modification of Perovskite Surfaces for Defect Passivation and Efficient Charge Extraction in Air-Stable CsPbBr ₃ Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19286-19294	8.3	29
205	Two-step synthesis of polyacrylamide/poly(vinyl alcohol)/polyacrylamide/graphite interpenetrating network hydrogel and its swelling, conducting and mechanical properties. <i>Journal of Materials Science</i> , 2008 , 43, 5898-5904	4.3	29
204	Interfacial Strain Release from the WS ₂ /CsPbBr ₃ van der Waals Heterostructure for 1.7 V Voltage All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 22181-22185	3.6	29
203	Cost-effective counter electrode electrocatalysts from iron@palladium and iron@platinum alloy nanospheres for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 297, 1-8	8.9	28
202	Counter electrodes from polyaniline/carbon nanotube complex/graphene oxide multilayers for dye-sensitized solar cell application. <i>Electrochimica Acta</i> , 2014 , 125, 510-515	6.7	28
201	Preparation of porous polyacrylate/poly(ethylene glycol) interpenetrating network hydrogel and simplification of Flory theory. <i>Journal of Materials Science</i> , 2009 , 44, 3712-3718	4.3	28
200	High conducting multilayer films from poly(sodium styrenesulfonate) and graphite nanoplatelets by layer-by-layer self-assembly. <i>Polymer</i> , 2008 , 49, 5329-5335	3.9	28
199	Cost-effective platinum alloy counter electrodes for liquid-junction dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 305, 217-224	8.9	27
198	Counter electrodes from binary ruthenium selenide alloys for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 271, 108-113	8.9	27
197	Counter electrodes from polyaniline/graphene complex/graphene oxide multilayers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 137, 175-182	6.7	27
196	Oxygen vacancies enriched Co ₃ O ₄ nanoflowers with single layer porous structures for water splitting. <i>Electrochimica Acta</i> , 2020 , 331, 135456	6.7	27

195	Lead-free CH ₃ NH ₃ SnBr ₃ -xI _x perovskite quantum dots for mesoscopic solar cell applications. <i>Electrochimica Acta</i> , 2018 , 282, 807-812	6.7	27
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191	Enhanced energy level alignment and hole extraction of carbon electrode for air-stable hole-transporting material-free CsPbBr ₃ perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 205, 110267	6.4	26
190	Enhanced charge extraction with all-carbon electrodes for inorganic CsPbBr perovskite solar cells. <i>Dalton Transactions</i> , 2018 , 47, 15283-15287	4.3	26
189	Improved charge extraction with N-doped carbon quantum dots in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018 , 282, 255-262	6.7	25
188	10.34%-efficient integrated CsPbBr ₃ /bulk-heterojunction solar cells. <i>Journal of Power Sources</i> , 2019 , 440, 227151	8.9	25
187	Tailoring all-inorganic cesium lead halide perovskites for robust triboelectric nanogenerators. <i>Nano Energy</i> , 2020 , 70, 104514	17.1	24
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185	The preparation and electrical conductivity of polyacrylamide/graphite conducting hydrogel. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1490-1495	2.9	24
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182	Cost-effective bifacial dye-sensitized solar cells with transparent iron selenide counter electrodes. An avenue of enhancing rear-side electricity generation capability. <i>Journal of Power Sources</i> , 2015 , 275, 288-293	8.9	23
181	Robust conducting gel electrolytes for efficient quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 137, 57-64	6.7	23
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43	Microporous gel electrolyte for quasi-solid-state dye-sensitized solar cell. <i>Polymer Engineering and Science</i> , 2014 , 54, 2531-2535	2.3	5
42	Crystal-Plane Controlled Spontaneous Polarization of Inorganic Perovskite toward Boosting Triboelectric Surface Charge Density. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26196-26203	9.5	5
41	Flexible, All-Inorganic CsPbBr Perovskite Solar Cells Tailored by Heat-resistant Muscovite Substrates. <i>ChemSusChem</i> , 2021 , 14, 1512-1516	8.3	5
40	Phase Control of Cs-Pb-Br Derivatives to Suppress 0D Cs PbBr for High-Efficiency and Stable All-Inorganic CsPbBr Perovskite Solar Cells.. <i>Small</i> , 2021 , e2106323	11	5
39	A nanoporous titanium dioxide framework for dye-sensitized solar cell. <i>Materials Letters</i> , 2015 , 161, 185-188	3.8	4
38	Enhanced light harvesting of TiO ₂ /La _{0.95} Tb _{0.05} PO ₄ photoanodes for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2016 , 173, 340-346	4.4	4
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36	Percolation effect and thermoplasticity of conducting [poly(acrylic acid)/C16TAB-modified graphene oxide] _n multilayer films. <i>Journal of Materials Science</i> , 2013 , 48, 1843-1851	4.3	4
35	Two steps synthesis and conductivity of polyacrylamide/Cu conducting hydrogel. <i>Polymer Composites</i> , 2009 , 30, 1132-1137	3	4
34	Double-Sided Tape-Modifier Bridging TiO ₂ /Perovskite Buried Interface for Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Journal of Materials Chemistry A</i> ,	13	4

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32	Reducing defect of inorganic perovskite film by sulphur-containing Lewis base for robust photodetectors. <i>Journal of Energy Chemistry</i> , 2021 , 61, 163-169	12	4
31	In-situ high-efficiency PM capture from motor vehicle exhaust based on self-powered ceramic porous triboelectric filter. <i>Nano Energy</i> , 2022 , 96, 107107	17.1	4
30	An avenue of expanding triiodide reduction and shortening charge diffusion length in solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 273, 180-184	8.9	3
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28	A strategy of integrating ultraviolet absorption and crosslinking in a single molecule: DFT calculation and experimental. <i>Journal of Molecular Structure</i> , 2016 , 1107, 249-253	3.4	3
27	Insights on the accumulation of charge carriers for enhanced electrical and photoelectric behaviors in conducting multilayer films. <i>RSC Advances</i> , 2013 , 3, 25190	3.7	3
26	Controllably hierarchical growth of large-scale ZnO microrods. <i>RSC Advances</i> , 2012 , 2, 2211	3.7	3
25	Suppressing Interfacial Shunt Loss via Functional Polymer for Performance Improvement of Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells. <i>Solar Rrl</i> , 2100791	7.1	3
24	p-Type Charge Transfer Doping of Graphene Oxide with (NiCo) _{1-x} FeyOx for Air-Stable, All-Inorganic CsPbI ₂ Br ₂ Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 10702-10707	3.6	3
23	Tri-Brominated Perovskite Film Management and Multiple-Ionic Defect Passivation for Highly Efficient and Stable Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000819	7.1	3
22	Tailoring type-II all-in-one buried interface for 1.635V-voltage, all-inorganic CsPbBr ₃ perovskite solar cells. <i>Nano Energy</i> , 2022 , 96, 107138	17.1	3
21	Preparation and electrochemical properties of polyaniline/ERuCl ₃ .xH ₂ O composites for supercapacitor. <i>Polymer Composites</i> , 2013 , 34, 2142-2147	3	2
20	A simple route to high-strength hydrogel with an interpenetrating polymer network. <i>E-Polymers</i> , 2009 , 9,	2.7	2
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18	Preparation and Conductivity of Polyaniline/Sio ₂ Composites. <i>Polymers and Polymer Composites</i> , 2007 , 15, 605-610	0.8	2
17	Understanding steric-charge-dependence of conjugated passivators on EPb ²⁺ bond strength for efficient all-inorganic perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 431, 134230	14.7	2
16	Efficient Defect Passivation and Charge Extraction with Hexamethylenetetramine Interface Modification for Hole-Transporting Layers-Free CsPbBr ₃ Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100344	7.1	2

15	Photoelectric engineering of bifacial dye-sensitized solar cells beyond sunny days. <i>Electrochimica Acta</i> , 2019 , 297, 660-668	6.7	2
14	Enhanced hole extraction by electron-rich alloys in all-inorganic CsPbBr perovskite solar cells. <i>Chemical Communications</i> , 2021 , 57, 7577-7580	5.8	2
13	Metal and Alloy for CE Catalysts in Dye-Sensitized Solar Cells 2018 , 47-69		2
12	Laminated triboelectric acoustic energy harvester based on electrospun nanofiber towards real-time noise decibel monitoring. <i>Nano Energy</i> , 2022 , 107348	17.1	2
11	Using SnO ₂ QDs and CsMBr ₃ (M = Sn, Bi, Cu) QDs as Charge-Transporting Materials for 10.6%-Efficiency All-Inorganic CsPbBr ₃ Perovskite Solar Cells with an Ultrahigh Open-Circuit Voltage of 1.610 V (Solar RRL 30019). <i>Solar Rrl</i> , 2019 , 3, 1970035	7.1	1
10	Insights on tunneled electrons for electrical and photoelectric behaviors in conducting multilayer films. <i>Polymer Engineering and Science</i> , 2015 , 55, 107-112	2.3	1
9	Self-Powered Low-Platinum Nanorod Alloy Monoelectrodes for Rain Energy Harvest. <i>Energy Technology</i> , 2018 , 6, 1606-1609	3.5	1
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