Qiquan Qiao

List of Publications by Year in descending order

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248	12,535	22153	33894
papers	citations	59 h-index	99 g-index

251	251	251	14298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructure controlled synthesis of Ni, N-codoped CoP/carbon fiber hybrids with improving reaction kinetics for superior sodium storage. Journal of Materials Science and Technology, 2022, 99, 184-192.	10.7	29
2	Highly efficient electron transport based on double-layered PC61BM in inverted perovskite solar cells. Organic Electronics, 2022, 100, 106391.	2.6	4
3	Mitigating Interfacial Mismatch between Lithium Metal and Garnet-Type Solid Electrolyte by Depositing Metal Nitride Lithiophilic Interlayer. ACS Applied Energy Materials, 2022, 5, 648-657.	5.1	16
4	Inorganic CsSnI₃ Perovskite Solar Cells: The Progress and Future Prospects. Solar Rrl, 2022, 6, 2100841.	5.8	25
5	Interface Engineering of Pbâ€“Sn Lowâ€Bandgap Perovskite Solar Cells for Improved Efficiency and Stability. Solar Rrl, 2022, 6, .	5.8	8
6	Synergistic Approach toward Erbium-Passivated Triple-Anion Organic-Free Perovskite Solar Cells with Excellent Performance for Agrivoltaics Application. ACS Applied Materials & Interfaces, 2022, 14, 6894-6905.	8.0	8
7	Strategies for highâ€performance perovskite solar cells from materials, film engineering to carrier dynamics and photon management. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	27
8	Van der Waals Epitaxial Growth for High Performance Organicâ€Free Perovskite Solar Cell: Experimental and Theoretical Insights. Advanced Materials Interfaces, 2022, 9, .	3.7	4
9	Roles of Organic Ligands in Ambient Stability of Layered Halide Perovskites. ACS Applied Materials & Interfaces, 2022, 14, 33085-33093.	8.0	2
10	Current advancements on charge selective contact interfacial layers and electrodes in flexible hybrid perovskite photovoltaics. Journal of Energy Chemistry, 2021, 54, 151-173.	12.9	51
11	Carbon quantum dot additive engineering for efficient and stable carbon-based perovskite solar cells. Journal of Alloys and Compounds, 2021, 859, 157784.	5.5	29
12	Synergetic effect of spatially separated dual co-catalyst for accelerating multiple conversion reaction in advanced lithium sulfur batteries. Nano Energy, 2021, 81, 105621.	16.0	123
13	Two-dimensional transition metal dichalcogenides and their composites for lab-based sensing applications: Recent progress and future outlook. Sensors and Actuators A: Physical, 2021, 318, 112517.	4.1	21
14	Understanding the modulation effect and surface chemistry in a heteroatom incorporated graphene-like matrix toward high-rate lithiumâ€“sulfur batteries. Nanoscale, 2021, 13, 14777-14784.	5.6	18
15	Kinetic Monte Carlo Simulation of Perovskite Solar Cells to Probe Film Coverage and Thickness. Advanced Energy and Sustainability Research, 2021, 2, 2000068.	5.8	3
16	Mitigating Open-Circuit Voltage Loss in Pbâ€“Sn Low-Bandgap Perovskite Solar Cells via Additive Engineering. ACS Applied Energy Materials, 2021, 4, 1731-1742.	5.1	43
17	Grain Boundary Defect Passivation in Quadruple Cation Wideâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000740.	5.8	19
18	Perovskite solar cells with embedded homojunction via nonuniform metal ion doping. Cell Reports Physical Science, 2021, 2, 100415.	5.6	10

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19	Development and characterization of a novel activated biochar-based polymer composite for biosensors. International Journal of Polymer Analysis and Characterization, 2021, 26, 544-560.	1.9	15
20	Origin and alleviation of J-V hysteresis in perovskite solar cells: A short review. Catalysis Today, 2021, 374, 86-101.	4.4	42
21	Enhancing efficiency and stability of inverted structure perovskite solar cells with fullerene C60 doped PC61BM electron transport layer. Carbon, 2021, 180, 226-236.	10.3	19
22	Solutionâ€Processed Compact Sb₂S₃ Thin Films by a Facile Oneâ€Step Deposition Method for Efficient Solar Cells. Solar Rrl, 2021, 5, 2100666.	5.8	16
23	Photoelectrochemical Application and Charge Transport Dynamics of a Water-Stable Organicâ€“Inorganic Halide (C₆H₄NH₂CuCl₂I) Film in Aqueous Solution. ACS Applied Materials & Interfaces, 2021, 13, 44274-44283.	8.0	3
24	Advanced strategies for the development of porous carbon as a Li host/current collector for lithium metal batteries. Energy Storage Materials, 2021, 41, 448-465.	18.0	60
25	The Role of Ex Situ Solid Electrolyte Interphase in Lithium Metal Batteries. , 2021, , 479-511.		0
26	Engineering Cu2ZnSnS4 grain boundaries for enhanced photovoltage generation at the Cu2ZnSnS4/TiO2 heterojunction: A nanoscale investigation using Kelvin probe force microscopy. Journal of Applied Physics, 2021, 130, .	2.5	6
27	Tailored PEDOT:PSS hole transport layer for higher performance in perovskite solar cells: Enhancement of electrical and optical properties with improved morphology. Journal of Energy Chemistry, 2020, 44, 41-50.	12.9	105
28	A copper-clad lithiophilic current collector for dendrite-free lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 1911-1919.	10.3	49
29	High efficiency perovskite solar cells using nitrogen-doped graphene/ZnO nanorod composite as an electron transport layer. Solar Energy, 2020, 197, 78-83.	6.1	73
30	Improved Performance of Carbon Electrode Perovskite Solar Cells Using Urea Treatment in Twoâ€Step Processing. ChemNanoMat, 2020, 6, 806-815.	2.8	9
31	Unraveling urea pre-treatment correlated to activate Er2(WO4)3 as an efficient and stable counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2020, 333, 135540.	5.2	13
32	Fine-Tuning Semiconducting Polymer Self-Aggregation and Crystallinity Enables Optimal Morphology and High-Performance Printed All-Polymer Solar Cells. Journal of the American Chemical Society, 2020, 142, 392-406.	13.7	143
33	Nanoscale control of grain boundary potential barrier, dopant density and filled trap state density for higher efficiency perovskite solar cells. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 409-423.	17.3	25
34	The donor-dependent methoxy effects on the performance of hole-transporting materials for perovskite solar cells. Journal of Energy Chemistry, 2020, 47, 10-17.	12.9	28
35	Synergistic engineering of hole transport materials in perovskite solar cells. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 928-941.	17.3	29
36	Fluorinated hybrid solid-electrolyte-interphase for dendrite-free lithium deposition. Nature Communications, 2020, 11, 93.	12.8	312

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37	Sulfiphilic FeP/rGO as a highly efficient sulfur host for propelling redox kinetics toward stable lithium-sulfur battery. Electrochimica Acta, 2020, 364, 137117.	5.2	58
38	High-energy plasma activation of renewable carbon for enhanced capacitive performance of supercapacitor electrode. Electrochimica Acta, 2020, 362, 137148.	5.2	31
39	Effects of polymer crystallinity on non-fullerene acceptor based organic solar cell photostability. Journal of Materials Chemistry C, 2020, 8, 16092-16099.	5.5	13
40	Thermally Driven High-Rate Intercalated Pseudocapacitance of Flower-like Architecture of Ultrathin Few Layered Î´-MnO₂ Nanosheets on Carbon Nano-Onions. ACS Applied Energy Materials, 2020, 3, 11398-11409.	5.1	16
41	Tailoring the Grain Boundaries of Wideâ€Bandgap Perovskite Solar Cells by Molecular Engineering. Solar Rrl, 2020, 4, 2000384.	5.8	15
42	Grain Boundary Defect Passivation of Triple Cation Mixed Halide Perovskite with Hydrazine-Based Aromatic Iodide for Efficiency Improvement. ACS Applied Materials & Interfaces, 2020, 12, 41312-41322.	8.0	45
43	Gamma-radiated biochar carbon for improved supercapacitor performance. RSC Advances, 2020, 10, 29910-29917.	3.6	30
44	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. ACS Energy Letters, 2020, 5, 2223-2230.	17.4	96
45	Enhanced catalytic property of transparent PEDOT counter electrodes for bifacial dye sensitized solar cells. Materials Today Communications, 2020, 25, 101313.	1.9	8
46	Metallic 1T Phase Tungsten Disulfide Microflowers for Trace Level Detection of Hg²⁺ Ions. Advanced Sustainable Systems, 2020, 4, 2000068.	5.3	12
47	Rearâ€Illuminated Perovskite Photorechargeable Lithium Battery. Advanced Functional Materials, 2020, 30, 2001865.	14.9	31
48	Effect of antisolvent treatment on PbI2 films for high performance carbon-based perovskite solar cells. Materials Letters, 2020, 275, 128157.	2.6	7
49	Recent Advances in Lithiophilic Porous Framework toward Dendrite-Free Lithium Metal Anode. Applied Sciences (Switzerland), 2020, 10, 4185.	2.5	33
50	Origin of enhanced carrier mobility and electrical conductivity in seed-layer assisted sputtered grown Al doped ZnO thin films. Thin Solid Films, 2020, 700, 137916.	1.8	32
51	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. Science, 2020, 367, 1135-1140.	12.6	525
52	Reduced hysteresis in perovskite solar cells using metal oxide/organic hybrid hole transport layer with generated interfacial dipoles. Electrochimica Acta, 2020, 354, 136660.	5.2	11
53	Temperature driven high-performance pseudocapacitor of carbon nano-onions supported urchin like structures of Î±-MnO2 nanorods. Electrochimica Acta, 2020, 354, 136626.	5.2	30
54	Real time detection of Hg2+ ions using MoS2 functionalized AlGaN/GaN high electron mobility transistor for water quality monitoring. Sensors and Actuators B: Chemical, 2020, 309, 127832.	7.8	40

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55	Modifying Mesoporous TiO2 by Ammonium Sulfonate Boosts Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12696-12705.	8.0	32
56	Thermal Stability and Performance Enhancement of Perovskite Solar Cells Through Oxalic Acid-Induced Perovskite Formation. ACS Applied Energy Materials, 2020, 3, 2432-2439.	5.1	55
57	Enhancing Charge Carrier Delocalization in Perovskite Quantum Dot Solids with Energetically Aligned Conjugated Capping Ligands. ACS Energy Letters, 2020, 5, 817-825.	17.4	58
58	Nanoscale spatial mapping of charge carrier dynamics in perovskite solar cells. Nano Today, 2020, 33, 100874.	11.9	21
59	Phenylhydrazinium Iodide for Surface Passivation and Defects Suppression in Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000778.	14.9	103
60	Transparent MoS₂/PEDOT Composite Counter Electrodes for Bifacial Dye-Sensitized Solar Cells. ACS Omega, 2020, 5, 8687-8696.	3.5	60
61	Highâ€Efficiency Perovskite Solar Cells Enabled by Anatase TiO₂ Nanopyramid Arrays with an Oriented Electric Field. Angewandte Chemie - International Edition, 2020, 59, 11969-11976.	13.8	76
62	Highâ€Efficiency Perovskite Solar Cells Enabled by Anatase TiO₂ Nanopyramid Arrays with an Oriented Electric Field. Angewandte Chemie, 2020, 132, 12067-12074.	2.0	15
63	Ultrathin Bilayer of Graphite/SiO₂ as Solid Interface for Reviving Li Metal Anode. Advanced Energy Materials, 2019, 9, 1901486.	19.5	128
64	Graphene Oxideâ€“Silver Nanowire Nanocomposites for Enhanced Sensing of Hg²⁺. ACS Applied Nano Materials, 2019, 2, 4842-4851.	5.0	62
65	High-performance carbon electrode-based CsPbI2Br inorganic perovskite solar cell based on poly(3-hexylthiophene)-carbon nanotubes composite hole-transporting layer. Journal of Colloid and Interface Science, 2019, 555, 180-186.	9.4	58
66	Improving Performance of Nonfullerene Organic Solar Cells over 13% by Employing Silver Nanowires-Doped PEDOT:PSS Composite Interface. ACS Applied Materials & Interfaces, 2019, 11, 42447-42454.	8.0	30
67	Capacity Revival of Tungsten trioxide Anode Material in Lithium-Ion Battery. , 2019, , .		0
68	PCM and the thermal model in battery design. , 2019, , .		0
69	Employing PCBTDPP as an Efficient Donor Polymer for High Performance Ternary Polymer Solar Cells. Polymers, 2019, 11, 1423.	4.5	9
70	A review on strategies addressing interface incompatibilities in inorganic all-solid-state lithium batteries. Sustainable Energy and Fuels, 2019, 3, 3279-3309.	4.9	83
71	SnO2 Nanoparticles Embedded Biochar as Anode Material in Lithium Ion Batteries. , 2019, , .		1
72	Internet of Things Based Weather-Soil Sensor Station for Precision Agriculture. , 2019, , .		13

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73	Improving photovoltaic performance of carbon-based CsPbBr3 perovskite solar cells by interfacial engineering using P3HT interlayer. Journal of Power Sources, 2019, 432, 48-54.	7.8	94
74	Electrochemical stability of lithium halide electrolyte with antiperovskite crystal structure. Electrochimica Acta, 2019, 306, 498-505.	5.2	28
75	Beyond Metal Oxides: Introducing Low-Temperature Solution-Processed Ultrathin Layered Double Hydroxide Nanosheets into Polymer Solar Cells Toward Improved Electron Transport (Solar RRL) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.8	3
76	Energy level alignment and nanoscale investigation of a-TiO2/Cu-Zn-Sn-S interface for alternative electron transport layer in earth abundant Cu-Zn-Sn-S solar cells. Journal of Applied Physics, 2019, 126, .	2.5	28
77	Modeling of Charge Transfer in Mesoscopic Perovskite Solar Cells by Considering a Trapassisted Interface. , 2019, , .		1
78	Tuning Hole Transport Layer Using Urea for Highâ€Performance Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1806740.	14.9	101
79	Beyond Metal Oxides: Introducing Lowâ€Temperature Solutionâ€Processed Ultrathin Layered Double Hydroxide Nanosheets into Polymer Solar Cells Toward Improved Electron Transport. Solar Rrl, 2019, 3, 1800299.	5.8	5
80	Nanoscale charge transport and local surface potential distribution to probe defect passivation in Ag doped Cu₂ZnSnS₄ absorbing layer. Nanotechnology, 2019, 30, 065706.	2.6	26
81	Photovoltaic Counter Electrodes: An Alternative Approach to Extend Light Absorption Spectra and Enhance Performance of Dyeâ€Sensitized Solar Cells. ChemPlusChem, 2019, 84, 241-246.	2.8	7
82	Flower-shaped lithium nitride as a protective layer via facile plasma activation for stable lithium metal anodes. Energy Storage Materials, 2019, 18, 389-396.	18.0	149
83	Sb2S3 Thickness-Related Photocurrent and Optoelectronic Processes in TiO2/Sb2S3/P3HT Planar Hybrid Solar Cells. Nanoscale Research Letters, 2019, 14, 325.	5.7	10
84	Advanced Coupling of Energy Storage and Photovoltaics. , 2019, , 317-350.		0
85	Electrochemical Phosphate Sensors Using Silver Nanowires Treated Screen Printed Electrodes. IEEE Sensors Journal, 2018, 18, 3480-3485.	4.7	43
86	Solar Charging Batteries: Advances, Challenges, and Opportunities. Joule, 2018, 2, 1217-1230.	24.0	229
87	Efficient CsF interlayer for high and low bandgap polymer solar cell. AIP Advances, 2018, 8, 025018.	1.3	7
88	Fabrication of PANI-coated ZnFe2O4 nanofibers with enhanced electrochemical performance for energy storage. Electrochimica Acta, 2018, 273, 282-288.	5.2	36
89	Aromatic Alkylammonium Spacer Cations for Efficient Twoâ€Dimensional Perovskite Solar Cells with Enhanced Moisture and Thermal Stability. Solar Rrl, 2018, 2, 1700215.	5.8	55
90	Hierarchical CuInS2 synthesized with the induction of histidine for polymer/CuInS2 solar cells. Materials Science in Semiconductor Processing, 2018, 76, 14-24.	4.0	16

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91	A strategic review on processing routes towards highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 2406-2431.	10.3	179
92	Dithieno[3,2-b:2â€²,3â€²-d]pyrrole-based hole transport materials for perovskite solar cells with efficiencies over 18%. Journal of Materials Chemistry A, 2018, 6, 7950-7958.	10.3	122
93	Additive assisted morphological optimization of photoactive layer in polymer solar cells. Solar Energy Materials and Solar Cells, 2018, 182, 246-254.	6.2	39
94	Solution-processed all-oxide bulk heterojunction solar cells based on CuO nanaorod array and TiO2nanocrystals. Nanotechnology, 2018, 29, 215403.	2.6	7
95	Origin of high carrier mobility and low residual stress in RF superimposed DC sputtered Al doped ZnO thin film for next generation flexible devices. Applied Surface Science, 2018, 436, 477-485.	6.1	30
96	Synthesis, Photophysical and Computational Study of Novel Coumarinâ€based Organic Dyes. Photochemistry and Photobiology, 2018, 94, 261-276.	2.5	14
97	Creation of oxygen vacancies to activate WO₃ for higher efficiency dye-sensitized solar cells. Sustainable Energy and Fuels, 2018, 2, 403-412.	4.9	45
98	Improving Charge Carrier Delocalization in Perovskite Quantum Dots by Surface Passivation with Conductive Aromatic Ligands. ACS Energy Letters, 2018, 3, 2931-2939.	17.4	116
99	Hierarchical Nanosheet-Based MS₂ (M = Re, Mo, W) Nanotubes Prepared by Templating Sacrificial Te Nanowires with Superior Lithium and Sodium Storage Capacity. ACS Applied Materials & Interfaces, 2018, 10, 37445-37452.	8.0	43
100	Few-layered ReS₂ nanosheets vertically aligned on reduced graphene oxide for superior lithium and sodium storage. Journal of Materials Chemistry A, 2018, 6, 20267-20276.	10.3	61
101	Rapid and Low-Temperature Processing of Mesoporous and Nanocrystalline TiO₂ Film Using Microwave Irradiation. ACS Applied Energy Materials, 2018, 1, 6288-6294.	5.1	9
102	Functionalized carboxylate deposition of triphenylamine-based organic dyes for efficient dye-sensitized solar cells. RSC Advances, 2018, 8, 31943-31949.	3.6	6
103	Inverted Currentâ€“Voltage Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2457-2460.	17.4	84
104	Step-by-Step Heating of Dye Solution for Efficient Solar Energy Harvesting in Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2018, 47, 4737-4741.	2.2	6
105	Self-recovery in Li-metal hybrid lithium-ion batteries via WO₃ reduction. Nanoscale, 2018, 10, 15956-15966.	5.6	87
106	Higher efficiency perovskite solar cells using 2 coreâ€“shell nanoparticles. Sustainable Energy and Fuels, 2018, 2, 2260-2267.	4.9	21
107	Bias-Dependent Normal and Inverted Jâ€“V Hysteresis in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 25604-25613.	8.0	77
108	Improving Photovoltaic Properties of P3HT:IC60BA through the Incorporation of Small Molecules. Polymers, 2018, 10, 121.	4.5	20

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109	Noncovalent phosphorylation of graphene oxide with improved hole transport in high-efficiency polymer solar cells. Nanoscale, 2018, 10, 14840-14846.	5.6	14
110	Influence of Nonfused Cores on the Photovoltaic Performance of Linear Triphenylamine-Based Hole-Transporting Materials for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 17883-17895.	8.0	83
111	Fe_{1â€x}Co_xS₂ Solid Solutions with Tunable Energy Structures to Enhance the Performance of Triiodide Reduction in Dyeâ€Sensitized Solar Cells. ChemNanoMat, 2018, 4, 1043-1047.	2.8	12
112	Comparison of performance and optoelectronic processes in ZnO and TiO2 nanorod array-based hybrid solar cells. Applied Surface Science, 2018, 456, 124-132.	6.1	18
113	Highly Efficient Perovskite Solar Cell Photocharging of Lithium Ion Battery Using DCâ€“DC Booster. Advanced Energy Materials, 2017, 7, 1602105.	19.5	128
114	Photovoltaic performance and impedance spectroscopy of a purely organic dye and most common metallic dye based dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 6552-6559.	2.2	16
115	4Hâ€cyclopenta[2,1â€b:3,4â€bâ€²]dithiophenâ€4â€one (CPDTO) homopolymer with side chains on every other CPDTO. Journal of Polymer Science Part A, 2017, 55, 1077-1085.	2.3	2
116	Alternative benzodithiophene (BDT) based polymeric hole transport layer for efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 168, 8-13.	6.2	37
117	Kirkendall Growth of Hollow Mn₃O₄ Nanoparticles upon Galvanic Reaction of MnO with Cu²⁺ and Evaluation as Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 11089-11099.	3.1	34
118	Tailoring Nanoscale Morphology of Polymer:Fullerene Blends Using Electrostatic Field. ACS Applied Materials & Interfaces, 2017, 9, 2678-2685.	8.0	14
119	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. Scientific Reports, 2017, 7, 1440.	3.3	56
120	Kinetic Monte Carlo modeling on organic solar cells: Domain size, donor-acceptor ratio and thickness. Nano Energy, 2017, 35, 128-137.	16.0	30
121	Sonochemical synthesis and high lithium storage properties of ordered Co/CMK-3 nanocomposites. Applied Surface Science, 2017, 400, 492-497.	6.1	17
122	Higher efficiency perovskite solar cells using additives of LiI, LiTFSI and BMImI in the PbI₂ precursor. Sustainable Energy and Fuels, 2017, 1, 2162-2171.	4.9	53
123	Urea-Treated Electrolytes for Higher Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2017, 121, 21225-21230.	3.1	15
124	Environmentally Friendly Plasma-Treated PEDOT:PSS as Electrodes for ITO-Free Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 35861-35870.	8.0	71
125	Effect of TiO2 nanoparticles on newly synthesized phenothiazine derivative-CPTA dye and its applications as dye sensitized solar cell. Journal of Molecular Liquids, 2017, 244, 97-102.	4.9	21
126	Nonconjugated Polymer Poly(vinylpyrrolidone) as an Efficient Interlayer Promoting Electron Transport for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 32957-32964.	8.0	73

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127	Activation of Passive Nanofillers in Composite Polymer Electrolyte for Higher Performance Lithiumâ€Ion Batteries. Advanced Sustainable Systems, 2017, 1, 1700043.	5.3	26
128	Plasmonic silver nanowires for higher efficiency dye-sensitized solar cells. Materials Today Energy, 2017, 5, 237-242.	4.7	13
129	<scp>l</scp>-Cysteine assisted-synthesis of 3D In₂S₃ for 3D CuInS₂ and its application in hybrid solar cells. RSC Advances, 2017, 7, 37578-37587.	3.6	27
130	Synergistically Enhanced Electrochemical Performance of Ni3S4â€“PtX (X = Fe, Ni) Heteronanorods as Heterogeneous Catalysts in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 27607-27617.	8.0	32
131	Review on dye-sensitized solar cells (DSSCs): Advanced techniques and research trends. Renewable and Sustainable Energy Reviews, 2017, 68, 234-246.	16.4	882
132	Modeling of interfacial and bulk charge transfer in dye-sensitized solar cells. Cogent Engineering, 2017, 4, 1287231.	2.2	12
133	Tin Selenide â€“ Multi-Walled Carbon Nanotubes Hybrid Anodes for High Performance Lithium-Ion Batteries. Electrochimica Acta, 2016, 211, 720-725.	5.2	105
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145	Solution-Processable Ionic Liquid as an Independent or Modifying Electron Transport Layer for High-Efficiency Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 34464-34473.	8.0	111
146	Effect of Synthesis Temperature, UV-Ozone Treatment, and Nanowire Diameter on the Failure of Silver Nanowire Electrodes. IEEE Journal of Photovoltaics, 2016, 6, 1549-1553.	2.5	7
147	An oligothiophene chromophore with a macrocyclic side chain: synthesis, morphology, charge transport, and photovoltaic performance. RSC Advances, 2016, 6, 102043-102056.	3.6	3
148	Biofuel production using Pd/Zn synergistically catalyzed hydrodeoxygenation applied at bio oil extracted in biomass pyrolysis process. International Journal of Energy Research, 2016, 40, 1724-1730.	4.5	11
149	A Simple Cost-Effective Approach to Enhance Performance of Bifacial Dye-Sensitized Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 912-917.	2.5	16
150	Room temperature, air crystallized perovskite film for high performance solar cells. Journal of Materials Chemistry A, 2016, 4, 10231-10240.	10.3	60
151	Functionalized Carboxylate Deposition for rapid sensitization of dye-sensitized solar cells. Solar Energy, 2016, 126, 128-136.	6.1	1
152	Electrospun carbon nano-felt derived from alkali lignin for cost-effective counter electrodes of dye-sensitized solar cells. RSC Advances, 2016, 6, 11481-11487.	3.6	45
153	Synthesis, modeling and photovoltaic properties of a benzothiadiazole based molecule for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 4501-4507.	2.2	16
154	Solution processed pristine PDPP3T polymer as hole transport layer for efficient perovskite solar cells with slower degradation. Solar Energy Materials and Solar Cells, 2016, 145, 193-199.	6.2	96
155	Graphene-beaded carbon nanofibers with incorporated Ni nanoparticles as efficient counter-electrode for dye-sensitized solar cells. Nano Energy, 2016, 22, 558-563.	16.0	66
156	Crystallization of a perovskite film for higher performance solar cells by controlling water concentration in methyl ammonium iodide precursor solution. Nanoscale, 2016, 8, 2693-2703.	5.6	100
157	Incorporation of plasmonic Au nanostars into photoanodes for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 545-551.	10.3	47
158	Managing Charge and Exciton Transporting Behavior in White Organic Lightâ€Emitting Devices for High Power Efficiency and Superior Color Stability. Advanced Electronic Materials, 2015, 1, 1400040.	5.1	6
159	Investigation of novel anthracene-bridged carbazoles as sensitizers and Co-sensitizers for dye-sensitized solar cells. International Journal of Energy Research, 2015, 39, 1335-1344.	4.5	12
160	Efficient Counter Electrode Manufactured from Ag₂S Nanocrystal Ink for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2015, 21, 15153-15157.	3.3	36
161	Vanadium oxide as new charge recombination blocking layer for high efficiency dye-sensitized solar cells. Nano Energy, 2015, 13, 368-375.	16.0	39
162	Strategic review of secondary phases, defects and defect-complexes in kesterite CZTSâ€“Se solar cells. Energy and Environmental Science, 2015, 8, 3134-3159.	30.8	451

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163	An efficient dual-emissive-layer white organic light emitting-diode: Insight into device working mechanism and origin of color-shift. Organic Electronics, 2015, 19, 157-162.	2.6	10
164	Critical role of domain crystallinity, domain purity and domain interface sharpness for reduced bimolecular recombination in polymer solar cells. Nano Energy, 2015, 12, 457-467.	16.0	41
165	Ultrathin FeSe₂ Nanosheets: Controlled Synthesis and Application as a Heterogeneous Catalyst in Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2015, 21, 4085-4091.	3.3	108
166	Catalytic cracking of non-edible sunflower oil over ZSM-5 for hydrocarbon bio-jet fuel. New Biotechnology, 2015, 32, 300-312.	4.4	77
167	The Role of Mottâ€“Schottky Heterojunctions in Agâ€“Ag₈SnS₆ as Counter Electrodes in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2015, 8, 817-820.	6.8	64
168	From binary to multicomponent photoactive layer: A promising complementary strategy to efficient hybrid solar cells. Nano Energy, 2015, 12, 686-697.	16.0	28
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