Taiho Park

List of Publications by Year
in descending order

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173 papers	9,686 citations	30070 54 h-index	43889 91 g-index
177 all docs	177 docs citations	177 times ranked	10739 citing authors

#	ARTICLE	IF	CITATIONS
1	Key Factors Affecting the Stability of CsPbI₃ Perovskite Quantum Dot Solar Cells: A Comprehensive Review. Advanced Materials, 2023, 35, .	21.0	19
2	Solid-solvent hybrid additive for the simultaneous control of the macro- and micro-morphology in non-fullerene-based organic solar cells. Nano Energy, 2022, 93, 106878.	16.0	19
3	Synergy Effect of a Ï€â€Conjugated Ionic Compound: Dual Interfacial Energy Level Regulation and Passivation to Promote <i>V</i>_{oc} and Stability of Planar Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	30
4	A small-molecule-templated nanostructure back electrode for enhanced light absorption and photocurrent in perovskite quantum dot photovoltaics. Journal of Materials Chemistry A, 2022, 10, 8966-8974.	10.3	3
5	3D Interaction of Zwitterions for Highly Stable and Efficient Inorganic CsPbI₃ Solar Cells. Advanced Functional Materials, 2022, 32, .	14.9	24
6	Defect Passivation through (Î±-Methylguanido)acetic Acid in Perovskite Solar Cell for High Operational Stability. ACS Applied Materials & Interfaces, 2022, 14, 20848-20855.	8.0	8
7	A Highly Efficient Bifunctional Electrode Fashioned with In Situ Exsolved NiFe Alloys for Reversible Solid Oxide Cells. ACS Sustainable Chemistry and Engineering, 2022, 10, 7595-7602.	6.7	12
8	Backbone Randomization in Conjugated Polymer-Based Hole-Transport Materials to Enhance the Efficiencies of Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 4856-4864.	6.7	11
9	Optimized vertical phase separation via systematic Y6 inner side-chain modulation for non-halogen solvent processed inverted organic solar cells. Nano Energy, 2022, 101, 107574.	16.0	40
10	Selective Defect Passivation and Topographical Control of 4â€Dimethylaminopyridine at Grain Boundary for Efficient and Stable Planar Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2003382.	19.5	82
11	Charge Trapping in a Low-Crystalline High-Mobility Conjugated Polymer and Its Effects on the Operational Stability of Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 16722-16731.	8.0	16
12	A Facile Surface Passivation Enables Thermally Stable and Efficient Planar Perovskite Solar Cells Using a Novel IDTTâ€Based Small Molecule Additive. Advanced Energy Materials, 2021, 11, 2003829.	19.5	72
13	Monodisperse Perovskite Colloidal Quantum Dots Enable High-Efficiency Photovoltaics. ACS Energy Letters, 2021, 6, 2229-2237.	17.4	26
14	Understanding of Face-On Crystallites Transitioning to Edge-On Crystallites in Thiophene-Based Conjugated Polymers. Chemistry of Materials, 2021, 33, 4541-4550.	6.7	33
15	Roles and Impacts of Ancillary Materials for Multiâ€Component Blend Organic Photovoltaics towards High Efficiency and Stability. ChemSusChem, 2021, 14, 3475-3487.	6.8	4
16	Blending isomers of fluorine-substituted sulfonyldibenzene as hole transport materials to achieve high efficiency beyond 21% in perovskite solar cells. Chemical Engineering Journal, 2021, 424, 130396.	12.7	23
17	Various metal (Fe, Mo, V, Co)-doped Ni2P nanowire arrays as overall water splitting electrocatalysts and their applications in unassisted solar hydrogen production with STH 14 %. Applied Catalysis B: Environmental, 2021, 297, 120434.	20.2	82
18	Designs and understanding of small molecule-based non-fullerene acceptors for realizing commercially viable organic photovoltaics. Chemical Science, 2021, 12, 14004-14023.	7.4	22

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19	A Review on Reducing Grain Boundaries and Morphological Improvement of Perovskite Solar Cells from Methodology and Materialâ€Based Perspectives. Small Methods, 2020, 4, 1900569.	8.6	56
20	Donorâ€“Acceptorâ€Conjugated Polymer for Highâ€Performance Organic Fieldâ€Effect Transistors: A Progress Report. Advanced Functional Materials, 2020, 30, 1904545.	14.9	260
21	A Short Review on Interface Engineering of Perovskite Solar Cells: A Selfâ€Assembled Monolayer and Its Roles. Solar Rrl, 2020, 4, 1900251.	5.8	75
22	Stabilizing Surface Passivation Enables Stable Operation of Colloidal Quantum Dot Photovoltaic Devices at Maximum Power Point in an Air Ambient. Advanced Materials, 2020, 32, e1906497.	21.0	47
23	Efficiency Limit of Colloidal Quantum Dot Solar Cells: Effect of Optical Interference on Active Layer Absorption. ACS Energy Letters, 2020, 5, 248-251.	17.4	30
24	Waterâ€Processable, Stretchable, Selfâ€Healable, Thermally Stable, and Transparent Ionic Conductors for Actuators and Sensors. Advanced Materials, 2020, 32, e1906679.	21.0	119
25	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. Nature Communications, 2020, 11, 103.	12.8	181
26	Novel cathode interfacial layer using creatine for enhancing the photovoltaic properties of perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 21721-21728.	10.3	28
27	Design Strategy of Quantum Dot Thinâ€Film Solar Cells. Small, 2020, 16, e2002460.	10.0	27
28	Green-solvent-processable organic semiconductors and future directions for advanced organic electronics. Journal of Materials Chemistry A, 2020, 8, 21455-21473.	10.3	51
29	Improved Eco-Friendly Photovoltaics Based on Stabilized AgBiS₂ Nanocrystal Inks. Chemistry of Materials, 2020, 32, 10007-10014.	6.7	28
30	A Tuned Alternating Dâ€“A Copolymer Holeâ€Transport Layer Enables Colloidal Quantum Dot Solar Cells with Superior Fill Factor and Efficiency. Advanced Materials, 2020, 32, e2004985.	21.0	56
31	Efficient and Stable Colloidal Quantum Dot Solar Cells with a Greenâ€Solvent Holeâ€Transport Layer. Advanced Energy Materials, 2020, 10, 2002084.	19.5	23
32	Monolithic Organic/Colloidal Quantum Dot Hybrid Tandem Solar Cells via Buffer Engineering. Advanced Materials, 2020, 32, e2004657.	21.0	16
33	Heat dissipation effects on the stability of planar perovskite solar cells. Energy and Environmental Science, 2020, 13, 5059-5067.	30.8	44
34	Recent Progress and Challenges of Electron Transport Layers in Organicâ€“Inorganic Perovskite Solar Cells. Energies, 2020, 13, 5572.	3.1	66
35	Organic Fieldâ€Effect Transistors: Donorâ€“Acceptorâ€Conjugated Polymer for Highâ€Performance Organic Fieldâ€Effect Transistors: A Progress Report (Adv. Funct. Mater. 20/2020). Advanced Functional Materials, 2020, 30, 2070130.	14.9	2
36	Hydrophobic stabilizer-anchored fully inorganic perovskite quantum dots enhance moisture resistance and photovoltaic performance. Nano Energy, 2020, 75, 104985.	16.0	69

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37	Aggregation-induced phosphorescence enhancement in deep-red and near-infrared emissive iridium(<scp>iii</scp>) complexes for solution-processable OLEDs. Journal of Materials Chemistry C, 2020, 8, 4789-4800.	5.5	32
38	Ionic Conductors: Waterâ€Processable, Stretchable, Selfâ€Healable, Thermally Stable, and Transparent Ionic Conductors for Actuators and Sensors (Adv. Mater. 7/2020). Advanced Materials, 2020, 32, 2070048.	21.0	3
39	Strategic Halogen Substitution to Enable Highâ€Performance Smallâ€Moleculeâ€Based Tandem Solar Cell with over 15% Efficiency. Advanced Energy Materials, 2020, 10, 1903846.	19.5	14
40	Effective Management of Nucleation and Crystallization Processes in Perovskite Formation via Facile Control of Antisolvent Temperature. ACS Applied Energy Materials, 2020, 3, 1506-1514.	5.1	34
41	Hole Transport Materials in Conventional Structural (nâ€“iâ€“p) Perovskite Solar Cells: From Past to the Future. Advanced Energy Materials, 2020, 10, 1903403.	19.5	192
42	Nonaromatic Greenâ€Solventâ€Processable, Dopantâ€Free, and Leadâ€Capturable Hole Transport Polymers in Perovskite Solar Cells with High Efficiency. Advanced Energy Materials, 2020, 10, 1902662.	19.5	141
43	Suppression of hydroxylation on the surface of colloidal quantum dots to enhance the open-circuit voltage of photovoltaics. Journal of Materials Chemistry A, 2020, 8, 4844-4849.	10.3	21
44	The effect of irregularity from asymmetric random Ï€-conjugated polymers on the photovoltaic performance of fullerene-free organic solar cells. Polymer Chemistry, 2019, 10, 4407-4412.	3.9	14
45	Study of Burnâ€In Loss in Green Solventâ€Processed Ternary Blended Organic Photovoltaics Derived from UVâ€Crosslinkable Semiconducting Polymers and Nonfullerene Acceptors. Advanced Energy Materials, 2019, 9, 1901829.	19.5	47
46	NiMoFe and NiMoFeP as Complementary Electrocatalysts for Efficient Overall Water Splitting and Their Application in PVâ€Electrolysis with STH 12.3%. Small, 2019, 15, e1905501.	10.0	55
47	Organic Photovoltaics: Study of Burnâ€In Loss in Green Solventâ€Processed Ternary Blended Organic Photovoltaics Derived from UVâ€Crosslinkable Semiconducting Polymers and Nonfullerene Acceptors (Adv. Energy Mater. 34/2019). Advanced Energy Materials, 2019, 9, 1970133.	19.5	0
48	Electron trapping and extraction kinetics on carrier diffusion in metal halide perovskite thin films. Journal of Materials Chemistry A, 2019, 7, 25838-25844.	10.3	8
49	Alkali acetate-assisted enhanced electronic coupling in CsPbI3 perovskite quantum dot solids for improved photovoltaics. Nano Energy, 2019, 66, 104130.	16.0	88
50	Controlling Ambipolar Charge Transport in Isoindigoâ€Based Conjugated Polymers by Altering Fluorine Substitution Position for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2019, 29, 1805994.	14.9	51
51	Improving the Photovoltaic Performance and Mechanical Stability of Flexible All-Polymer Solar Cells via Tailoring Intermolecular Interactions. Chemistry of Materials, 2019, 31, 5047-5055.	6.7	48
52	Improving the Electrical Connection of n-Type Conjugated Polymers through Fluorine-Induced Robust Aggregation. Chemistry of Materials, 2019, 31, 4864-4872.	6.7	23
53	A Facetâ€Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. Advanced Materials, 2019, 31, e1805580.	21.0	87
54	Ancillary ligand-assisted robust deep-red emission in iridium(<scp>iii</scp>) complexes for solution-processable phosphorescent OLEDs. Journal of Materials Chemistry C, 2019, 7, 4143-4154.	5.5	26

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55	In-depth optical characterization of poly(3-hexylthiophene) after formation of nanosecond laser-induced periodic surface structures. Nanoscale, 2019, 11, 7567-7571.	5.6	3
56	Control of Crystallite Orientation in Diketopyrrolopyrrole-Based Semiconducting Polymers via Tuning of Intermolecular Interactions. ACS Applied Materials & Interfaces, 2019, 11, 10751-10757.	8.0	20
57	Effect of the length of a symmetric branched side chain on charge transport in thienoisoindigo-based polymer field-effect transistors. Organic Electronics, 2019, 65, 251-258.	2.6	13
58	Perovskite Solar Cells: Donorâ€“Acceptor Type Dopantâ€Free, Polymeric Hole Transport Material for Planar Perovskite Solar Cells (19.8%) (Adv. Energy Mater. 4/2018). Advanced Energy Materials, 2018, 8, 1870018.	19.5	12
59	Solar Cells: pâ€Type CuI Islands on TiO₂ Electron Transport Layer for a Highly Efficient Planarâ€Perovskite Solar Cell with Negligible Hysteresis (Adv. Energy Mater. 5/2018). Advanced Energy Materials, 2018, 8, 1870020.	19.5	8
60	Green-solvent processable semiconducting polymers applicable in additive-free perovskite and polymer solar cells: molecular weights, photovoltaic performance, and thermal stability. Journal of Materials Chemistry A, 2018, 6, 5538-5543.	10.3	51
61	Improving the Performance and Stability of Inverted Planar Flexible Perovskite Solar Cells Employing a Novel NDIâ€Based Polymer as the Electron Transport Layer. Advanced Energy Materials, 2018, 8, 1702872.	19.5	104
62	Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. Nano Energy, 2018, 49, 324-332.	16.0	52
63	Exploiting Ï€â€“Ï€ Stacking for Stretchable Semiconducting Polymers. Macromolecules, 2018, 51, 2572-2579.	4.8	104
64	pâ€Type CuI Islands on TiO₂ Electron Transport Layer for a Highly Efficient Planarâ€Perovskite Solar Cell with Negligible Hysteresis. Advanced Energy Materials, 2018, 8, 1702235.	19.5	117
65	Donorâ€“Acceptor Type Dopantâ€Free, Polymeric Hole Transport Material for Planar Perovskite Solar Cells (19.8%). Advanced Energy Materials, 2018, 8, 1701935.	19.5	116
66	A donorâ€“acceptor semiconducting polymer with a random configuration for efficient, green-solvent-processable flexible solar cells. Journal of Materials Chemistry A, 2018, 6, 24580-24587.	10.3	20
67	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. ACS Energy Letters, 2018, 3, 2908-2913.	17.4	20
68	Substituents engineered deep-red to near-infrared phosphorescence from tris-heteroleptic iridium(<scp>iii</scp>) complexes for solution processable red-NIR organic light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 10640-10658.	5.5	55
69	Boosting the performance and stability of quasi-two-dimensional tin-based perovskite solar cells using the formamidinium thiocyanate additive. Journal of Materials Chemistry A, 2018, 6, 18173-18182.	10.3	149
70	Activated Electronâ€Transport Layers for Infrared Quantum Dot Optoelectronics. Advanced Materials, 2018, 30, e1801720.	21.0	57
71	Role of Disorder in the Extent of Interchain Delocalization and Polaron Generation in Polythiophene Crystalline Domains. Journal of Physical Chemistry Letters, 2018, 9, 3173-3180.	4.6	17
72	Solution Processable Inorganicâ€“Organic Doubleâ€Layered Hole Transport Layer for Highly Stable Planar Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1801386.	19.5	75

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73	Study on the Aging Mechanism of Boron Potassium Nitrate (BKNO3) for Sustainable Efficiency in Pyrotechnic Mechanical Devices. Scientific Reports, 2018, 8, 11745.	3.3	21
74	Thermally stable, planar hybrid perovskite solar cells with high efficiency. Energy and Environmental Science, 2018, 11, 3238-3247.	30.8	348
75	A comparative study on the thermal- and microwave-assisted Stille coupling polymerization of a benzodithiophene-based donorâ€“acceptor polymer (PTB7). Journal of Materials Chemistry A, 2017, 5, 3330-3335.	10.3	18
76	Simple post annealing-free method for fabricating uniform, large grain-sized, and highly crystalline perovskite films. Nano Energy, 2017, 34, 181-187.	16.0	50
77	Highly Efficient and Uniform 1â€…cm² Perovskite Solar Cells with an Electrochemically Deposited NiO_{<i>x</i>} Holeâ€Extraction Layer. ChemSusChem, 2017, 10, 2660-2667.	6.8	84
78	Enhanced Efficiency and Stability of an Aqueous Lead-Nitrate-Based Organometallic Perovskite Solar Cell. ACS Applied Materials & Interfaces, 2017, 9, 14023-14030.	8.0	30
79	Amine-Functionalized Covalent Organic Framework for Efficient SO2 Capture with High Reversibility. Scientific Reports, 2017, 7, 557.	3.3	73
80	Freestanding doubly open-ended TiO2 nanotubes for efficient photocatalytic degradation of volatile organic compounds. Applied Catalysis B: Environmental, 2017, 205, 386-392.	20.2	73
81	Systematically Optimized Bilayered Electron Transport Layer for Highly Efficient Planar Perovskite Solar Cells (Î· = 21.1%). ACS Energy Letters, 2017, 2, 2667-2673.	17.4	180
82	Enhanced Openâ€Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivityâ€Controlled Solutionâ€Phase Ligand Exchange. Advanced Materials, 2017, 29, 1703627.	21.0	49
83	A Highly Versatile and Adaptable Artificial Leaf with Floatability and Planar Compact Design Applicable in Various Natural Environments. Advanced Materials, 2017, 29, 1702431.	21.0	13
84	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2017, 29, 1702350.	21.0	126
85	Morphological Control of Donor/Acceptor Interfaces in All-Polymer Solar Cells Using a Pentafluorobenzene-Based Additive. Chemistry of Materials, 2017, 29, 6793-6798.	6.7	47
86	Gradated Mixed Hole Transport Layer in a Perovskite Solar Cell: Improving Moisture Stability and Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 27720-27726.	8.0	95
87	Green-Solvent-Processable, Dopant-Free Hole-Transporting Materials for Robust and Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2017, 139, 12175-12181.	13.7	212
88	Inducing swift nucleation morphology control for efficient planar perovskite solar cells by hot-air quenching. Journal of Materials Chemistry A, 2017, 5, 3812-3818.	10.3	61
89	Visible-light-induced activation of periodate that mimics dye-sensitization of TiO2: Simultaneous decolorization of dyes and production of oxidizing radicals. Applied Catalysis B: Environmental, 2017, 203, 475-484.	20.2	97
90	Programmable dual electrochromism in azine linked conjugated polymer. Optical Materials Express, 2017, 7, 2117.	3.0	8

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91	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. Nano Energy, 2016, 28, 269-276.	16.0	63
92	Organic Solar Cells: High-Performance Small Molecule via Tailoring Intermolecular Interactions and its Application in Large-Area Organic Photovoltaic Modules (Adv. Energy Mater. 12/2016). Advanced Energy Materials, 2016, 6, .	19.5	0
93	Well-Defined Nanostructured, Single-Crystalline TiO₂ Electron Transport Layer for Efficient Planar Perovskite Solar Cells. ACS Nano, 2016, 10, 6029-6036.	14.6	196
94	High-Field-Effect Mobility of Low-Crystallinity Conjugated Polymers with Localized Aggregates. Journal of the American Chemical Society, 2016, 138, 8096-8103.	13.7	217
95	Requirements for Forming Efficient 3-D Charge Transport Pathway in Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Interfaces, 2016, 8, 12307-12315.	8.0	22
96	Dopant-free polymeric hole transport materials for highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2016, 9, 2326-2333.	30.8	317
97	Stereoisomers of an azine-linked donorâ€“acceptor conjugated polymer: the impact of molecular conformation on electrical performance. RSC Advances, 2016, 6, 44272-44278.	3.6	8
98	Cross-Linkable Fullerene Derivatives for Solution-Processed nâ€“iâ€“p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 648-653.	17.4	67
99	The importance of the polymer molecular weight and the processing solvent in PBDTTT-C:PCBM bulk heterojunction solar cells: Their effects on the nanostructural active texture. Solar Energy, 2016, 140, 27-33.	6.1	4
100	Pt-Free Counter Electrodes with Carbon Black and 3D Network Epoxy Polymer Composites. Scientific Reports, 2016, 6, 22987.	3.3	23
101	Highâ€Performance Small Molecule via Tailoring Intermolecular Interactions and its Application in Largeâ€Area Organic Photovoltaic Modules. Advanced Energy Materials, 2016, 6, 1600228.	19.5	69
102	Electron-Transfer Kinetics through Interfaces between Electron-Transport and Ion-Transport Layers in Solid-State Dye-Sensitized Solar Cells Utilizing Solid Polymer Electrolyte. Journal of Physical Chemistry C, 2016, 120, 2494-2500.	3.1	13
103	Cyanoacetic acid tethered thiophene for well-matched LUMO level in Ru(II)-terpyridine dye sensitized solar cells. Dyes and Pigments, 2016, 126, 270-278.	3.7	10
104	Solar Cells: A Strategy to Design a Donor-Ï€-Acceptor Polymeric Hole Conductor for an Efficient Perovskite Solar Cell (Adv. Energy Mater. 14/2015). Advanced Energy Materials, 2015, 5, .	19.5	0
105	Effects of Regioregularity and Molecular Weight on the Growth of Polythiophene Nanofibrils and Mixes of Short and Long Nanofibrils To Enhance the Hole Transport. ACS Applied Materials & Interfaces, 2015, 7, 27694-27702.	8.0	18
106	A Strategy to Design a Donorâ€“Ï€â€“Acceptor Polymeric Hole Conductor for an Efficient Perovskite Solar Cell. Advanced Energy Materials, 2015, 5, 1500471.	19.5	55
107	Concentration-Dependent Pyrene-Driven Self-Assembly in Benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene (BDT)â€“Thienothiophene (TT)â€“Pyrene Copolymers. Macromolecules, 2015, 48, 3509-3515.	4.8	23
108	New Hybrid Hole Extraction Layer of Perovskite Solar Cells with a Planar pâ€“iâ€“n Geometry. Journal of Physical Chemistry C, 2015, 119, 27285-27290.	3.1	71

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109	Thickness of the hole transport layer in perovskite solar cells: performance versus reproducibility. RSC Advances, 2015, 5, 99356-99360.	3.6	98
110	A Competitive Electron Transport Mechanism in Hierarchical Homogeneous Hybrid Structures Composed of TiO2 Nanoparticles and Nanotubes. Chemistry of Materials, 2015, 27, 1359-1366.	6.7	30
111	Morphological study of polymer/fullerene interfaces via benzeneâ€“PCBM interaction. Organic Electronics, 2015, 26, 230-238.	2.6	4
112	Effect of Ion-Chelating Chain Lengths in Thiophene-Based Monomers on in Situ Photoelectrochemical Polymerization and Photovoltaic Performances. ACS Applied Materials & Interfaces, 2015, 7, 11482-11489.	8.0	8
113	Switchable Photovoltaic Effects in Hexagonal Manganite Thin Films Having Narrow Band Gaps. Chemistry of Materials, 2015, 27, 7425-7432.	6.7	67
114	Highly Efficient Solar Water Splitting from Transferred TiO₂ Nanotube Arrays. Nano Letters, 2015, 15, 5709-5715.	9.1	95
115	Fast cascade neutralization of an oxidized sensitizer by an in situ-generated ionic layer of I^{â^’} species on a nanocrystalline TiO₂ electrode. Energy and Environmental Science, 2014, 7, 4029-4034.	30.8	7
116	Suppressing charge recombination by incorporating 3,6â€carbazole into poly[9â€(heptadecanâ€9â€yl)â€9<i>H</i>â€carbazoleâ€2,7â€diylâ€altâ€(5,6â€bisâ€(octyloxy)â€4,7â€di(thiopheneâ€2â€yl)benzo[1,2,… Journal of Polymer Science Part A, 2014, 52, 2047-2056.	2.3	6
117	Dye-Sensitized Solar Cells: Physically Stable Polymer-Membrane Electrolytes for Highly Efficient Solid-State Dye-Sensitized Solar Cells with Long-Term Stability (Adv. Energy Mater. 3/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	19.5	2
118	Positioning lithium ions by hostâ€“guest chemistry combined with selfâ€assembly using a thiopheneâ€based allâ€conjugated amphiphilic block copolymer. Journal of Polymer Science Part A, 2014, 52, 1068-1074.	2.3	5
119	Physically Stable Polymerâ€Membrane Electrolytes for Highly Efficient Solidâ€State Dyeâ€Sensitized Solar Cells with Longâ€Term Stability. Advanced Energy Materials, 2014, 4, 1300489.	19.5	27
120	A diketopyrrolopyrrole-containing hole transporting conjugated polymer for use in efficient stable organicâ€“inorganic hybrid solar cells based on a perovskite. Energy and Environmental Science, 2014, 7, 1454.	30.8	374
121	In situ modulation of the vertical distribution in a blend of P3HT and PC60BM via the addition of a composition gradient inducer. Nanoscale, 2014, 6, 2440.	5.6	33
122	Solar Cells: Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells (Adv. Energy Mater. 13/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	19.5	1
123	Ruthenium(ii) quasi-solid state dye sensitized solar cells with 8% efficiency using a supramolecular oligomer-based electrolyte. Journal of Materials Chemistry A, 2014, 2, 13338-13344.	10.3	4
124	Tripleâ€Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400477.	19.5	12
125	Doubly open-ended TiO₂nanotube arrays decorated with a few nm-sized TiO₂nanoparticles for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 14380.	10.3	17
126	Dye-Sensitized Solar Cells Employing Doubly or Singly Open-Ended TiO₂ Nanotube Arrays: Structural Geometry and Charge Transport. ACS Applied Materials & Interfaces, 2014, 6, 15388-15394.	8.0	21

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127	Well-Defined All-Conducting Block Copolymer Bilayer Hybrid Nanostructure: Selective Positioning of Lithium Ions and Efficient Charge Collection. ACS Nano, 2014, 8, 6893-6901.	14.6	10
128	Optically pumped distributed feedback dye lasing with slide-coated TiO_2 inverse-opal slab as Bragg reflector. Optics Letters, 2014, 39, 4743.	3.3	5
129	A Benzodithiophene-Based Novel Electron Transport Layer for a Highly Efficient Polymer Solar Cell. ACS Applied Materials & Interfaces, 2014, 6, 15875-15880.	8.0	33
130	Composition tuning of a mixture of thienothiophene-based polymer (PTB7) and PC 70 BM using a novel additive, tetrabromothiophene (Br-ADD). Organic Electronics, 2014, 15, 3268-3273.	2.6	11
131	Simultaneously Grasping and Selfâ€Organizing Photoactive Polymers for Highly Reproducible Organic Solar Cells with Improved Efficiency. Advanced Energy Materials, 2013, 3, 1018-1024.	19.5	21
132	Bi-functional ion exchangers for enhanced performance of dye-sensitized solar cells. Chemical Communications, 2013, 49, 6671.	4.1	3
133	Tunable Nanoporous Network Polymer Nanocomposites having Size-Selective Ion Transfer for Dye-Sensitized Solar Cells (Adv. Energy Mater. 2/2013). Advanced Energy Materials, 2013, 3, 183-183.	19.5	4
134	Lowâ€bandgap quinoxalineâ€based Dâ€"Aâ€type copolymers: Synthesis, characterization, and photovoltaic properties. Journal of Polymer Science Part A, 2013, 51, 372-382.	2.3	19
135	Improved photovoltaic performance by enhanced crystallinity of poly(3-hexyl)thiophene. Organic Electronics, 2013, 14, 3046-3051.	2.6	14
136	Sulfur-incorporated carbon quantum dots with a strong long-wavelength absorption band. Journal of Materials Chemistry C, 2013, 1, 2002.	5.5	65
137	Charge Density Dependent Mobility of Organic Holeâ€Transporters and Mesoporous TiO₂ Determined by Transient Mobility Spectroscopy: Implications to Dyeâ€Sensitized and Organic Solar Cells. Advanced Materials, 2013, 25, 3227-3233.	21.0	217
138	A novel quasi-solid state dye-sensitized solar cell fabricated using a multifunctional network polymer membrane electrolyte. Energy and Environmental Science, 2013, 6, 1559.	30.8	48
139	Aerosol OT/Water System Coupled with Triiodide/Iodide (I₃^{âˆ'}/I^{âˆ'}) Redox Electrolytes for Highly Efficient Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2013, 3, 1344-1350.	19.5	18
140	Tunable Nanoporous Network Polymer Nanocomposites having Sizeâ€Selective Ion Transfer for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2013, 3, 184-192.	19.5	18
141	Chemical compatibility between a hole conductor and organic dye enhances the photovoltaic performance of solid-state dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 8641.	6.7	34
142	Recyclable and stable ruthenium catalyst for free radical polymerization at ambient temperature initiated by visible light photocatalysis. Green Chemistry, 2012, 14, 618.	9.0	19
143	Reduced charge recombination by the formation of an interlayer using a novel dendron coadsorbent in solid-state dye-sensitized solar cells. RSC Advances, 2012, 2, 3467.	3.6	38
144	Facile fabrication of aligned doubly open-ended TiO2 nanotubes, via a selective etching process, for use in front-illuminated dye sensitized solar cells. Chemical Communications, 2012, 48, 8748.	4.1	39

#	Article	IF	Citations
145	Exploring the Heterogeneous Interfaces in Organic or Ruthenium Dye-Sensitized Liquid- and Solid-State Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 3141-3147.	8.0	14
146	Relationship between HOMO energy level and open circuit voltage of polymer solar cells. Organic Electronics, 2012, 13, 2185-2191.	2.6	22
147	Synthesis and Self-Assembly of Thiophene-Based All-Conjugated Amphiphilic Diblock Copolymers with a Narrow Molecular Weight Distribution. Macromolecules, 2012, 45, 5058-5068.	4.8	42
148	3,6-Carbazole Incorporated into Poly[9,9-dioctylfluorene-<i>alt</i>-(bisthienyl)benzothiadiazole]s Improving the Power Conversion Efficiency. Macromolecules, 2012, 45, 3004-3009.	4.8	41
149	Stable Dyeâ€Sensitized Solar Cells by Encapsulation of N719â€Sensitized TiO₂ Electrodes Using Surfaceâ€Induced Crossâ€Linking Polymerization. Advanced Energy Materials, 2012, 2, 219-224.	19.5	43
150	Polymeric vesicles with a hydrophobic interior formed by a thiophene-based all-conjugated amphiphilic diblock copolymer. Chemical Communications, 2011, 47, 4697.	4.1	40
151	Size-tunable mesoporous spherical TiO2 as a scattering overlayer in high-performance dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 9582.	6.7	119
152	Effect of coadsorbent properties on the photovoltaic performance of dye-sensitized solar cells. Chemical Communications, 2011, 47, 4147.	4.1	86
153	Synthesis of a Redox-Responsive Quadruple Hydrogen-Bonding Unit for Applications in Supramolecular Chemistry. Journal of the American Chemical Society, 2011, 133, 17118-17121.	13.7	104
154	A novel hole transport material for iodine-free solid state dye-sensitized solar cells. Chemical Communications, 2011, 47, 10395.	4.1	28
155	Carbazole-Based Copolymers: Effects of Conjugation Breaks and Steric Hindrance. Macromolecules, 2011, 44, 1909-1919.	4.8	75
156	Thermodynamic Control over the Competitive Anchoring of N719 Dye on Nanocrystalline TiO₂ for Improving Photoinduced Electron Generation. Langmuir, 2011, 27, 14647-14653.	3.5	35
157	Free Radical Polymerization Initiated and Controlled by Visible Light Photocatalysis at Ambient Temperature. Macromolecules, 2011, 44, 7594-7599.	4.8	156
158	Synthesis and characterization of all-conjugated diblock copolymers consisting of thiophenes with a hydrophobic alkyl and a hydrophilic alkoxy side chain. Polymer, 2011, 52, 3704-3709.	3.8	22
159	Parameters influencing the molecular weight of 3,6â€carbazoleâ€based Dâ€Ïâ€â€Aâ€type copolymers. Journal of Polymer Science Part A, 2011, 49, 4368-4378.	2.3	19
160	A Supramolecular Multi-Block Copolymer with a High Propensity for Alternation. Journal of the American Chemical Society, 2006, 128, 13986-13987.	13.7	154
161	Interface engineering for solid-state dye-sensitised nanocrystalline solar cells: the use of an organic redox cascade. Chemical Communications, 2006, , 535-537.	4.1	38
162	Formation of a Miscible Supramolecular Polymer Blend through Self-Assembly Mediated by a Quadruply Hydrogen-Bonded Heterocomplex. Journal of the American Chemical Society, 2006, 128, 11582-11590.	13.7	239

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163	Interplay of Fidelity, Binding Strength, and Structure in Supramolecular Polymers. Journal of the American Chemical Society, 2006, 128, 14236-14237.	13.7	86
164	Preparation of 2,7-Diamino-1,8-naphthyridine: A Useful Building Block for Supramolecular Chemistry. Synlett, 2005, 2005, 1435-1436.	1.8	1
165	A Quadruply Hydrogen Bonded Heterocomplex Displaying High-Fidelity Recognition. Journal of the American Chemical Society, 2005, 127, 18133-18142.	13.7	131
166	A Highly Stable Quadruply Hydrogen-Bonded Heterocomplex Useful for Supramolecular Polymer Blends. Journal of the American Chemical Society, 2005, 127, 6520-6521.	13.7	209
167	Fidelity in the supramolecular assembly of triply and quadruply hydrogen-bonded complexes. Israel Journal of Chemistry, 2005, 45, 381-389.	2.3	41
168	Transient Optical Studies of Interfacial Energetic Disorder at Nanostructured Dye-Sensitised Inorganic/Organic Semiconductor Heterojunctions. ChemPhysChem, 2003, 4, 89-93.	2.1	65
169	Transient Optical Studies of Interfacial Energetic Disorder at Nanostructured Dye-Sensitised Inorganic/Organic Semiconductor Heterojunctions. ChemPhysChem, 2003, 4, 230-230.	2.1	2
170	A supramolecular approach to lithium ion solvation at nanostructured dye sensitised inorganic/organic heterojunctionsElectronic Supplementary Information (ESI) available: experimental details and absorption spectra. See http://www.rsc.org/suppdata/cc/b3/b306604e/. Chemical Communications, 2003, , 2878.	4.1	39
171	Characterization of polyisoprene by temperature gradient interaction chromatography. Macromolecular Chemistry and Physics, 2000, 201, 320-325.	2.2	38
172	Synergy Effect of a Ï€â€Conjugated Ionic Compound: Dual Interfacial Energy Level Regulation and Passivation to Promote V oc and Stability of Planar Perovskite Solar Cells. Angewandte Chemie, 0, , .	2.0	4
173	A <scp>Furanâ€Substituted</scp> Polymeric <scp>Holeâ€Transporting</scp> Material for Energy Level Regulation and Less Planarity in Colloidal Quantum Dot Solar Cells. Energy and Environmental Materials, 0, , .	12.8	4