Taiho Park

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161	7,152 citations	47	78
papers		h-index	g-index
177	8,371 ext. citations	13.5	6.37
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
161	Solid-solvent hybrid additive for the simultaneous control of the macro- and micro-morphology in non-fullerene-based organic solar cells. <i>Nano Energy</i> , 2022 , 93, 106878	17.1	9
160	Designs and understanding of small molecule-based non-fullerene acceptors for realizing commercially viable organic photovoltaics. <i>Chemical Science</i> , 2021 , 12, 14004-14023	9.4	4
159	A Facile Surface Passivation Enables Thermally Stable and Efficient Planar Perovskite Solar Cells Using a Novel IDTT-Based Small Molecule Additive. <i>Advanced Energy Materials</i> , 2021 , 11, 2003829	21.8	27
158	Monodisperse Perovskite Colloidal Quantum Dots Enable High-Efficiency Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 2229-2237	20.1	7
157	Understanding of Face-On Crystallites Transitioning to Edge-On Crystallites in Thiophene-Based Conjugated Polymers. <i>Chemistry of Materials</i> , 2021 , 33, 4541-4550	9.6	4
156	Selective Defect Passivation and Topographical Control of 4-Dimethylaminopyridine at Grain Boundary for Efficient and Stable Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003382	21.8	34
155	Charge Trapping in a Low-Crystalline High-Mobility Conjugated Polymer and Its Effects on the Operational Stability of Organic Field-Effect Transistors. <i>ACS Applied Materials & Description</i> (2021), 13, 16722-16731	9.5	7
154	Roles and Impacts of Ancillary Materials for Multi-Component Blend Organic Photovoltaics towards High Efficiency and Stability. <i>ChemSusChem</i> , 2021 , 14, 3475-3487	8.3	3
153	Blending isomers of fluorine-substituted sulfonyldibenzene as hole transport materials to achieve high efficiency beyond 21% in perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 424, 130396	14.7	7
152	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 %. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120434	21.8	12
151	Heat dissipation effects on the stability of planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 5059-5067	35.4	17
150	Recent Progress and Challenges of Electron Transport Layers in OrganicIhorganic Perovskite Solar Cells. <i>Energies</i> , 2020 , 13, 5572	3.1	26
149	Organic Field-Effect Transistors: DonorAcceptor-Conjugated Polymer for High-Performance Organic Field-Effect Transistors: A Progress Report (Adv. Funct. Mater. 20/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070130	15.6	2
148	Hydrophobic stabilizer-anchored fully inorganic perovskite quantum dots enhance moisture resistance and photovoltaic performance. <i>Nano Energy</i> , 2020 , 75, 104985	17.1	36
147	Aggregation-induced phosphorescence enhancement in deep-red and near-infrared emissive iridium(III) complexes for solution-processable OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4789-4	18 <u>0</u> 0	16
146	Ionic Conductors: Water-Processable, Stretchable, Self-Healable, Thermally Stable, and Transparent Ionic Conductors for Actuators and Sensors (Adv. Mater. 7/2020). <i>Advanced Materials</i> , 2020 , 32, 207004	18 ²⁴	3
145	Strategic Halogen Substitution to Enable High-Performance Small-Molecule-Based Tandem Solar Cell with over 15% Efficiency. <i>Advanced Energy Materials</i> , 2020 , 10, 1903846	21.8	8

(2020-2020)

144	Effective Management of Nucleation and Crystallization Processes in Perovskite Formation via Facile Control of Antisolvent Temperature. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1506-1514	6.1	21
143	Hole Transport Materials in Conventional Structural (n IB) Perovskite Solar Cells: From Past to the Future. <i>Advanced Energy Materials</i> , 2020 , 10, 1903403	21.8	103
142	Nonaromatic Green-Solvent-Processable, Dopant-Free, and Lead-Capturable Hole Transport Polymers in Perovskite Solar Cells with High Efficiency. <i>Advanced Energy Materials</i> , 2020 , 10, 1902662	21.8	73
141	Suppression of hydroxylation on the surface of colloidal quantum dots to enhance the open-circuit voltage of photovoltaics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4844-4849	13	9
140	Stabilizing Surface Passivation Enables Stable Operation of Colloidal Quantum Dot Photovoltaic Devices at Maximum Power Point in an Air Ambient. <i>Advanced Materials</i> , 2020 , 32, e1906497	24	23
139	Efficiency Limit of Colloidal Quantum Dot Solar Cells: Effect of Optical Interference on Active Layer Absorption. <i>ACS Energy Letters</i> , 2020 , 5, 248-251	20.1	16
138	Water-Processable, Stretchable, Self-Healable, Thermally Stable, and Transparent Ionic Conductors for Actuators and Sensors. <i>Advanced Materials</i> , 2020 , 32, e1906679	24	66
137	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020 , 11, 103	17.4	110
136	Novel cathode interfacial layer using creatine for enhancing the photovoltaic properties of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21721-21728	13	14
135	Design Strategy of Quantum Dot Thin-Film Solar Cells. <i>Small</i> , 2020 , 16, e2002460	11	11
134	Green-solvent-processable organic semiconductors and future directions for advanced organic electronics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21455-21473	13	18
133	Improved Eco-Friendly Photovoltaics Based on Stabilized AgBiS2 Nanocrystal Inks. <i>Chemistry of Materials</i> , 2020 , 32, 10007-10014	9.6	10
132	A Tuned Alternating D-A Copolymer Hole-Transport Layer Enables Colloidal Quantum Dot Solar Cells with Superior Fill Factor and Efficiency. <i>Advanced Materials</i> , 2020 , 32, e2004985	24	25
131	Efficient and Stable Colloidal Quantum Dot Solar Cells with a Green-Solvent Hole-Transport Layer. <i>Advanced Energy Materials</i> , 2020 , 10, 2002084	21.8	9
130	Monolithic Organic/Colloidal Quantum Dot Hybrid Tandem Solar Cells via Buffer Engineering. <i>Advanced Materials</i> , 2020 , 32, e2004657	24	7
129	A Review on Reducing Grain Boundaries and Morphological Improvement of Perovskite Solar Cells from Methodology and Material-Based Perspectives. <i>Small Methods</i> , 2020 , 4, 1900569	12.8	26
128	Donor Acceptor-Conjugated Polymer for High-Performance Organic Field-Effect Transistors: A Progress Report. <i>Advanced Functional Materials</i> , 2020 , 30, 1904545	15.6	133
127	A Short Review on Interface Engineering of Perovskite Solar Cells: A Self-Assembled Monolayer and Its Roles. <i>Solar Rrl</i> , 2020 , 4, 1900251	7.1	43

126	Organic Photovoltaics: Study of Burn-In Loss in Green Solvent-Processed Ternary Blended Organic Photovoltaics Derived from UV-Crosslinkable Semiconducting Polymers and Nonfullerene Acceptors (Adv. Energy Mater. 34/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970133	21.8	
125	Electron trapping and extraction kinetics on carrier diffusion in metal halide perovskite thin films. Journal of Materials Chemistry A, 2019 , 7, 25838-25844	13	4
124	Alkali acetate-assisted enhanced electronic coupling in CsPbI3 perovskite quantum dot solids for improved photovoltaics. <i>Nano Energy</i> , 2019 , 66, 104130	17.1	54
123	Controlling Ambipolar Charge Transport in Isoindigo-Based Conjugated Polymers by Altering Fluorine Substitution Position for High-Performance Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1805994	15.6	35
122	Improving the Photovoltaic Performance and Mechanical Stability of Flexible All-Polymer Solar Cells via Tailoring Intermolecular Interactions. <i>Chemistry of Materials</i> , 2019 , 31, 5047-5055	9.6	34
121	Improving the Electrical Connection of n-Type Conjugated Polymers through Fluorine-Induced Robust Aggregation. <i>Chemistry of Materials</i> , 2019 , 31, 4864-4872	9.6	18
120	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019 , 31, e1805580	24	55
119	Ancillary ligand-assisted robust deep-red emission in iridium(III) complexes for solution-processable phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4143-4154	7.1	14
118	In-depth optical characterization of poly(3-hexylthiophene) after formation of nanosecond laser-induced periodic surface structures. <i>Nanoscale</i> , 2019 , 11, 7567-7571	7.7	2
117	The effect of irregularity from asymmetric random Etonjugated polymers on the photovoltaic performance of fullerene-free organic solar cells. <i>Polymer Chemistry</i> , 2019 , 10, 4407-4412	4.9	9
116	Study of Burn-In Loss in Green Solvent-Processed Ternary Blended Organic Photovoltaics Derived from UV-Crosslinkable Semiconducting Polymers and Nonfullerene Acceptors. <i>Advanced Energy Materials</i> , 2019 , 9, 1901829	21.8	28
115	NiMoFe and NiMoFeP as Complementary Electrocatalysts for Efficient Overall Water Splitting and Their Application in PV-Electrolysis with STH 12.3. <i>Small</i> , 2019 , 15, e1905501	11	27
114	Control of Crystallite Orientation in Diketopyrrolopyrrole-Based Semiconducting Polymers via Tuning of Intermolecular Interactions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 10751-10757	9.5	13
113	Effect of the length of a symmetric branched side chain on charge transport in thienoisoindigo-based polymer field-effect transistors. <i>Organic Electronics</i> , 2019 , 65, 251-258	3.5	10
112	Perovskite Solar Cells: Donor Acceptor Type Dopant-Free, Polymeric Hole Transport Material for Planar Perovskite Solar Cells (19.8%) (Adv. Energy Mater. 4/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870018	21.8	9
111	Solar Cells: p-Type CuI Islands on TiO2 Electron Transport Layer for a Highly Efficient Planar-Perovskite Solar Cell with Negligible Hysteresis (Adv. Energy Mater. 5/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870020	21.8	7
110	Green-solvent processable semiconducting polymers applicable in additive-free perovskite and polymer solar cells: molecular weights, photovoltaic performance, and thermal stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5538-5543	13	35
109	Improving the Performance and Stability of Inverted Planar Flexible Perovskite Solar Cells Employing a Novel NDI-Based Polymer as the Electron Transport Layer. <i>Advanced Energy Materials</i> , 2018 8 1702872	21.8	83

(2017-2018)

108	Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. <i>Nano Energy</i> , 2018 , 49, 324-332	17.1	36
107	Exploiting L acking for Stretchable Semiconducting Polymers. <i>Macromolecules</i> , 2018 , 51, 2572-2579	5.5	69
106	p-Type CuI Islands on TiO2 Electron Transport Layer for a Highly Efficient Planar-Perovskite Solar Cell with Negligible Hysteresis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702235	21.8	94
105	Donor Acceptor Type Dopant-Free, Polymeric Hole Transport Material for Planar Perovskite Solar Cells (19.8%). <i>Advanced Energy Materials</i> , 2018 , 8, 1701935	21.8	93
104	Solution Processable Inorganic Drganic Double-Layered Hole Transport Layer for Highly Stable Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801386	21.8	55
103	Study on the Aging Mechanism of Boron Potassium Nitrate (BKNO) for Sustainable Efficiency in Pyrotechnic Mechanical Devices. <i>Scientific Reports</i> , 2018 , 8, 11745	4.9	14
102	Thermally stable, planar hybrid perovskite solar cells with high efficiency. <i>Energy and Environmental Science</i> , 2018 , 11, 3238-3247	35.4	216
101	A donor acceptor semiconducting polymer with a random configuration for efficient, green-solvent-processable flexible solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24580-24587	13	16
100	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. <i>ACS Energy Letters</i> , 2018 , 3, 2908-2913	20.1	12
99	Substituents engineered deep-red to near-infrared phosphorescence from tris-heteroleptic iridium(III) complexes for solution processable red-NIR organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10640-10658	7.1	34
98	Boosting the performance and stability of quasi-two-dimensional tin-based perovskite solar cells using the formamidinium thiocyanate additive. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18173-18182	13	110
97	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. <i>Advanced Materials</i> , 2018 , 30, e1801720	24	34
96	Role of Disorder in the Extent of Interchain Delocalization and Polaron Generation in Polythiophene Crystalline Domains. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3173-3180	6.4	7
95	A comparative study on the thermal- and microwave-assisted Stille coupling polymerization of a benzodithiophene-based donoracceptor polymer (PTB7). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3330	o .13 335	13
94	Simple post annealing-free method for fabricating uniform, large grain-sized, and highly crystalline perovskite films. <i>Nano Energy</i> , 2017 , 34, 181-187	17.1	40
93	Highly Efficient and Uniform 1 cm Perovskite Solar Cells with an Electrochemically Deposited NiO Hole-Extraction Layer. <i>ChemSusChem</i> , 2017 , 10, 2660-2667	8.3	67
92	Enhanced Efficiency and Stability of an Aqueous Lead-Nitrate-Based Organometallic Perovskite Solar Cell. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 14023-14030	9.5	21
91	Amine-Functionalized Covalent Organic Framework for Efficient SO Capture with High Reversibility. <i>Scientific Reports</i> , 2017 , 7, 557	4.9	52

90	Freestanding doubly open-ended TiO2 nanotubes for efficient photocatalytic degradation of volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 386-392	21.8	60
89	Systematically Optimized Bilayered Electron Transport Layer for Highly Efficient Planar Perovskite Solar Cells (译 21.1%). <i>ACS Energy Letters</i> , 2017 , 2, 2667-2673	20.1	139
88	Enhanced Open-Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivity-Controlled Solution-Phase Ligand Exchange. <i>Advanced Materials</i> , 2017 , 29, 1703627	24	42
87	A Highly Versatile and Adaptable Artificial Leaf with Floatability and Planar Compact Design Applicable in Various Natural Environments. <i>Advanced Materials</i> , 2017 , 29, 1702431	24	9
86	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2017 , 29, 1702350	24	97
85	Morphological Control of Donor/Acceptor Interfaces in All-Polymer Solar Cells Using a Pentafluorobenzene-Based Additive. <i>Chemistry of Materials</i> , 2017 , 29, 6793-6798	9.6	44
84	Gradated Mixed Hole Transport Layer in a Perovskite Solar Cell: Improving Moisture Stability and Efficiency. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 27720-27726	9.5	72
83	Green-Solvent-Processable, Dopant-Free Hole-Transporting Materials for Robust and Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12175-12181	16.4	156
82	Inducing swift nucleation morphology control for efficient planar perovskite solar cells by hot-air quenching. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3812-3818	13	52
81	Visible-light-induced activation of periodate that mimics dye-sensitization of TiO2: Simultaneous decolorization of dyes and production of oxidizing radicals. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 475-484	21.8	62
80	Programmable dual electrochromism in azine linked conjugated polymer. <i>Optical Materials Express</i> , 2017 , 7, 2117	2.6	7
79	Cross-Linkable Fullerene Derivatives for Solution-Processed ntp Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 648-653	20.1	60
78	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. <i>Solar Energy</i> , 2016 , 140, 27-33	6.8	4
77	Pt-Free Counter Electrodes with Carbon Black and 3D Network Epoxy Polymer Composites. <i>Scientific Reports</i> , 2016 , 6, 22987	4.9	22
76	High-Performance Small Molecule via Tailoring Intermolecular Interactions and its Application in Large-Area Organic Photovoltaic Modules. <i>Advanced Energy Materials</i> , 2016 , 6, 1600228	21.8	61
75	Electron-Transfer Kinetics through Interfaces between Electron-Transport and Ion-Transport Layers in Solid-State Dye-Sensitized Solar Cells Utilizing Solid Polymer Electrolyte. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2494-2500	3.8	12
74	Cyanoacetic acid tethered thiophene for well-matched LUMO level in Ru(II)-terpyridine dye sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 126, 270-278	4.6	7
73	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. <i>Nano Energy</i> , 2016 , 28, 269-276	17.1	49

72	Well-Defined Nanostructured, Single-Crystalline TiO2 Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>ACS Nano</i> , 2016 , 10, 6029-36	16.7	161
71	High-Field-Effect Mobility of Low-Crystallinity Conjugated Polymers with Localized Aggregates. Journal of the American Chemical Society, 2016 , 138, 8096-103	16.4	173
70	Requirements for Forming Efficient 3-D Charge Transport Pathway in Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. <i>ACS Applied Materials & Diketopyrrolopyrrole-Based ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrrole-Based Copolymers: Film Morphology vs Molecular Packing. ACS Applied Materials & Diketopyrrolopyrro</i>	9.5	19
69	Dopant-free polymeric hole transport materials for highly efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 2326-2333	35.4	265
68	Stereoisomers of an azine-linked donor\(\text{lcceptor conjugated polymer: the impact of molecular conformation on electrical performance. \(\text{RSC Advances}\), \(\text{2016}\), \(6\), \(44272-44278\)	3.7	5
67	Morphological study of polymer/fullerene interfaces via benzene P C70BM interaction. <i>Organic Electronics</i> , 2015 , 26, 230-238	3.5	4
66	Effect of ion-chelating chain lengths in thiophene-based monomers on in situ photoelectrochemical polymerization and photovoltaic performances. <i>ACS Applied Materials & Description and Photovoltaic Performances</i> . <i>ACS Applied Materials & Description and Photovoltaic Performances</i> . <i>ACS Applied Materials & Description and Photovoltaic Performances</i> .	99.5	6
65	Switchable Photovoltaic Effects in Hexagonal Manganite Thin Films Having Narrow Band Gaps. <i>Chemistry of Materials</i> , 2015 , 27, 7425-7432	9.6	46
64	Highly Efficient Solar Water Splitting from Transferred TiO2 Nanotube Arrays. <i>Nano Letters</i> , 2015 , 15, 5709-15	11.5	85
63	Effects of Regioregularity and Molecular Weight on the Growth of Polythiophene Nanofibrils and Mixes of Short and Long Nanofibrils To Enhance the Hole Transport. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27694-702	9.5	17
62	A Strategy to Design a Donor Acceptor Polymeric Hole Conductor for an Efficient Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2015 , 5, 1500471	21.8	50
61	Concentration-Dependent Pyrene-Driven Self-Assembly in Benzo[1,2-b:4,5-b?]dithiophene (BDT)Thienothiophene (TT)Pyrene Copolymers. <i>Macromolecules</i> , 2015 , 48, 3509-3515	5.5	19
60	New Hybrid Hole Extraction Layer of Perovskite Solar Cells with a Planar pff Geometry. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27285-27290	3.8	68
59	Thickness of the hole transport layer in perovskite solar cells: performance versus reproducibility. <i>RSC Advances</i> , 2015 , 5, 99356-99360	3.7	61
58	A Competitive Electron Transport Mechanism in Hierarchical Homogeneous Hybrid Structures Composed of TiO2 Nanoparticles and Nanotubes. <i>Chemistry of Materials</i> , 2015 , 27, 1359-1366	9.6	28
57	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). <i>Advanced Energy Materials</i> , 2014 , 4, n/a-n/a	21.8	2
56	Positioning lithium ions by hostguest chemistry combined with self-assembly using a thiophene-based all-conjugated amphiphilic block copolymer. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 1068-1074	2.5	5
55	Physically Stable Polymer-Membrane Electrolytes for Highly Efficient Solid-State Dye-Sensitized Solar Cells with Long-Term Stability. <i>Advanced Energy Materials</i> , 2014 , 4, 1300489	21.8	24

54	A diketopyrrolopyrrole-containing hole transporting conjugated polymer for use in efficient stable organicshorganic hybrid solar cells based on a perovskite. <i>Energy and Environmental Science</i> , 2014 , 7, 1454	35.4	337
53	In situ modulation of the vertical distribution in a blend of P3HT and PC(60)BM via the addition of a composition gradient inducer. <i>Nanoscale</i> , 2014 , 6, 2440-6	7.7	33
52	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	21.8	1
51	Ruthenium(II) quasi-solid state dye sensitized solar cells with 8% efficiency using a supramolecular oligomer-based electrolyte. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13338-13344	13	4
50	Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400	4 77 .8	11
49	Doubly open-ended TiO2 nanotube arrays decorated with a few nm-sized TiO2 nanoparticles for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14380	13	16
48	Dye-sensitized solar cells employing doubly or singly open-ended TiO2 nanotube arrays: structural geometry and charge transport. <i>ACS Applied Materials & District Sensors</i> , 2014 , 6, 15388-94	9.5	21
47	Well-defined all-conducting block copolymer bilayer hybrid nanostructure: selective positioning of lithium ions and efficient charge collection. <i>ACS Nano</i> , 2014 , 8, 6893-901	16.7	10
46	Optically pumped distributed feedback dye lasing with slide-coated TiOIInverse-opal slab as Bragg reflector. <i>Optics Letters</i> , 2014 , 39, 4743-6	3	5
45	A benzodithiophene-based novel electron transport layer for a highly efficient polymer solar cell. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 15875-80	9.5	32
44	Composition tuning of a mixture of thienothiophene-based polymer (PTB7) and PC 70 BM using a novel additive, tetrabromothiophene (Br-ADD). <i>Organic Electronics</i> , 2014 , 15, 3268-3273	3.5	11
43	Fast cascade neutralization of an oxidized sensitizer by an in situ-generated ionic layer of Ißpecies on a nanocrystalline TiO2 electrode. <i>Energy and Environmental Science</i> , 2014 , 7, 4029-4034	35.4	7
42	Suppressing charge recombination by incorporating 3,6-carbazole into poly[9-(heptadecan-9-yl)-9H-carbazole-2,7-diyl-alt-(5,6-bis-(octyloxy)-4,7-di(thiophen-2-yl)benzo[1,2,5]-Journal of Polymer Science Part A, 2014 , 52, 2047-2056	thiagdia	z ó le)-5,5-0
41	Simultaneously Grasping and Self-Organizing Photoactive Polymers for Highly Reproducible Organic Solar Cells with Improved Efficiency. <i>Advanced Energy Materials</i> , 2013 , 3, 1018-1024	21.8	20
40	Bi-functional ion exchangers for enhanced performance of dye-sensitized solar cells. <i>Chemical Communications</i> , 2013 , 49, 6671-3	5.8	3
39	Tunable Nanoporous Network Polymer Nanocomposites having Size-Selective Ion Transfer for Dye-Sensitized Solar Cells (Adv. Energy Mater. 2/2013). <i>Advanced Energy Materials</i> , 2013 , 3, 183-183	21.8	3
38	Low-bandgap quinoxaline-based DA-type copolymers: Synthesis, characterization, and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 372-382	2.5	18
37	Improved photovoltaic performance by enhanced crystallinity of poly(3-hexyl)thiophene. <i>Organic Electronics</i> , 2013 , 14, 3046-3051	3.5	14

(2011-2013)

36	Sulfur-incorporated carbon quantum dots with a strong long-wavelength absorption band. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2002	7.1	58
35	Charge density dependent mobility of organic hole-transporters and mesoporous TiOldetermined by transient mobility spectroscopy: implications to dye-sensitized and organic solar cells. <i>Advanced Materials</i> , 2013 , 25, 3227-33	24	189
34	A novel quasi-solid state dye-sensitized solar cell fabricated using a multifunctional network polymer membrane electrolyte. <i>Energy and Environmental Science</i> , 2013 , 6, 1559	35.4	46
33	Aerosol OT/Water System Coupled with Triiodide/Iodide (I3DDRedox Electrolytes for Highly Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1344-1350	21.8	17
32	Tunable Nanoporous Network Polymer Nanocomposites having Size-Selective Ion Transfer for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 184-192	21.8	17
31	Chemical compatibility between a hole conductor and organic dye enhances the photovoltaic performance of solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8641		34
30	Recyclable and stable ruthenium catalyst for free radical polymerization at ambient temperature initiated by visible light photocatalysis. <i>Green Chemistry</i> , 2012 , 14, 618	10	16
29	Reduced charge recombination by the formation of an interlayer using a novel dendron coadsorbent in solid-state dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 3467	3.7	35
28	Facile fabrication of aligned doubly open-ended TiO2 nanotubes, via a selective etching process, for use in front-illuminated dye sensitized solar cells. <i>Chemical Communications</i> , 2012 , 48, 8748-50	5.8	37
27	Exploring the heterogeneous interfaces in organic or ruthenium dye-sensitized liquid- and solid-state solar cells. <i>ACS Applied Materials & Samp; Interfaces</i> , 2012 , 4, 3141-7	9.5	14
26	Relationship between HOMO energy level and open circuit voltage of polymer solar cells. <i>Organic Electronics</i> , 2012 , 13, 2185-2191	3.5	19
25	Synthesis and Self-Assembly of Thiophene-Based All-Conjugated Amphiphilic Diblock Copolymers with a Narrow Molecular Weight Distribution. <i>Macromolecules</i> , 2012 , 45, 5058-5068	5.5	40
24	3,6-Carbazole Incorporated into Poly[9,9-dioctylfluorene-alt-(bisthienyl)benzothiadiazole]s Improving the Power Conversion Efficiency. <i>Macromolecules</i> , 2012 , 45, 3004-3009	5.5	40
23	Stable Dye-Sensitized Solar Cells by Encapsulation of N719-Sensitized TiO2 Electrodes Using Surface-Induced Cross-Linking Polymerization. <i>Advanced Energy Materials</i> , 2012 , 2, 219-224	21.8	42
22	Effect of coadsorbent properties on the photovoltaic performance of dye-sensitized solar cells. <i>Chemical Communications</i> , 2011 , 47, 4147-9	5.8	84
21	Synthesis of a redox-responsive quadruple hydrogen-bonding unit for applications in supramolecular chemistry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17118-21	16.4	92
20	A novel hole transport material for iodine-free solid state dye-sensitized solar cells. <i>Chemical Communications</i> , 2011 , 47, 10395-7	5.8	28
19	Carbazole-Based Copolymers: Effects of Conjugation Breaks and Steric Hindrance. <i>Macromolecules</i> , 2011 , 44, 1909-1919	5.5	70

18	Thermodynamic control over the competitive anchoring of N719 dye on nanocrystalline TiO2 for improving photoinduced electron generation. <i>Langmuir</i> , 2011 , 27, 14647-53	4	32
17	Free Radical Polymerization Initiated and Controlled by Visible Light Photocatalysis at Ambient Temperature. <i>Macromolecules</i> , 2011 , 44, 7594-7599	5.5	146
16	Synthesis and characterization of all-conjugated diblock copolymers consisting of thiophenes with a hydrophobic alkyl and a hydrophilic alkoxy side chain. <i>Polymer</i> , 2011 , 52, 3704-3709	3.9	22
15	Parameters influencing the molecular weight of 3,6-carbazole-based D-FA-type copolymers. Journal of Polymer Science Part A, 2011 , 49, 4368-4378	2.5	19
14	Polymeric vesicles with a hydrophobic interior formed by a thiophene-based all-conjugated amphiphilic diblock copolymer. <i>Chemical Communications</i> , 2011 , 47, 4697-9	5.8	40
13	Size-tunable mesoporous spherical TiO2 as a scattering overlayer in high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9582		116
12	A supramolecular multi-block copolymer with a high propensity for alternation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13986-7	16.4	145
11	Interface engineering for solid-state dye-sensitised nanocrystalline solar cells: the use of an organic redox cascade. <i>Chemical Communications</i> , 2006 , 535-7	5.8	32
10	Formation of a miscible supramolecular polymer blend through self-assembly mediated by a quadruply hydrogen-bonded heterocomplex. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1158	32 ⁻¹ 90 ⁴	220
9	Interplay of fidelity, binding strength, and structure in supramolecular polymers. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14236-7	16.4	83
8	A quadruply hydrogen bonded heterocomplex displaying high-fidelity recognition. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18133-42	16.4	123
7	A highly stable quadruply hydrogen-bonded heterocomplex useful for supramolecular polymer blends. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6520-1	16.4	197
6	Fidelity in the supramolecular assembly of triply and quadruply hydrogen-bonded complexes. <i>Israel Journal of Chemistry</i> , 2005 , 45, 381-389	3.4	40
5	Transient optical studies of interfacial energetic disorder at nanostructured dye-sensitised inorganic/organic semiconductor heterojunctions. <i>ChemPhysChem</i> , 2003 , 4, 89-93	3.2	59
4	Transient Optical Studies of Interfacial Energetic Disorder at Nanostructured Dye-Sensitised Inorganic/Organic Semiconductor Heterojunctions. <i>ChemPhysChem</i> , 2003 , 4, 230-230	3.2	О
3	A supramolecular approach to lithium ion solvation at nanostructured dye sensitised inorganic/organic heterojunctions. <i>Chemical Communications</i> , 2003 , 2878-9	5.8	36
2	Characterization of polyisoprene by temperature gradient interaction chromatography. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 320-325	2.6	33
1	3D Interaction of Zwitterions for Highly Stable and Efficient Inorganic CsPbI 3 Solar Cells. <i>Advanced Functional Materials</i> ,2112027	15.6	3