

# Tae Joo Shin

## 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.

225  
papers

12,153  
citations

52  
h-index

104  
g-index

235  
ext. papers

14,577  
ext. citations

10.4  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
225	Fabrication of high-performance SnSe <sub>2</sub> thermoelectric thin films with preferred crystallographic orientation. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 023901	3.4	1
224	Abrading bulk metal into single atoms.. <i>Nature Nanotechnology</i> , <b>2022</b> ,	28.7	12
223	Selective CO adsorption and bathochromic shift in a phosphocholine-based lipid and conjugated polymer assembly.. <i>RSC Advances</i> , <b>2022</b> , 12, 8385-8393	3.7	
222	Dissolving Diamond: Kinetics of the Dissolution of (100) and (110) Single Crystals in Nickel and Cobalt Films. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 2599-2611	9.6	1
221	Super-hydration and reduction of manganese oxide minerals at shallow terrestrial depths.. <i>Nature Communications</i> , <b>2022</b> , 13, 1942	17.4	
220	Perovskite solar cells with atomically coherent interlayers on SnO electrodes. <i>Nature</i> , <b>2021</b> , 598, 444-450	30.4	530
219	Suppressing High-Current-Induced Phase Separation in Ni-Rich Layered Oxides by Electrochemically Manipulating Dynamic Lithium Distribution. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105337	24	6
218	Directing Polymorphism in the Helical Nanofilament Phase. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 7108-7113	4.8	2
217	Stabilization of formamidinium lead triiodide phase with isopropylammonium chloride for perovskite solar cells. <i>Nature Energy</i> , <b>2021</b> , 6, 419-428	62.3	59
216	Tailored Polymer Gate Dielectric Engineering to Optimize Flexible Organic Field-Effect Transistors and Complementary Integrated Circuits. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30921-30929	9.5	3
215	Ordered Mesoporous Carbons with Graphitic Tubular Frameworks by Dual Templating for Efficient Electrocatalysis and Energy Storage. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 1461-1469	3.6	0
214	Ordered Mesoporous Carbons with Graphitic Tubular Frameworks by Dual Templating for Efficient Electrocatalysis and Energy Storage. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 1441-1449	16.4	18
213	Impact of Intermolecular Interactions Between a Diketopyrrolopyrrole-Based Conjugated Polymer and Bromobenzaldehyde on Field-Effect Transistors. <i>Macromolecular Research</i> , <b>2021</b> , 29, 89-97	1.9	3
212	Tailored growth of graphene oxide liquid crystals with controlled polymer crystallization in GO-polymer composites. <i>Nanoscale</i> , <b>2021</b> , 13, 2720-2727	7.7	1
211	Molecular Orientation Control of Liquid Crystal Organic Semiconductor for High-Performance Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11125-11133	9.5	7
210	Synthesis of Vinyl-Addition Polynorbornene Copolymers Bearing Pendant n-Alkyl Chains and Systematic Investigation of Their Properties. <i>Macromolecules</i> , <b>2021</b> , 54, 6762-6771	5.5	0
209	Designing highly active nanoporous carbon H <sub>2</sub> O <sub>2</sub> production electrocatalysts through active site identification. <i>CheM</i> , <b>2021</b> ,	16.2	18

208	Reversible Ligand Exchange in Atomically Dispersed Catalysts for Modulating the Activity and Selectivity of the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20528-20534	16.4	4
207	Reversible Ligand Exchange in Atomically Dispersed Catalysts for Modulating the Activity and Selectivity of the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 20691-20697	3.6	0
206	General Efficacy of Atomically Dispersed Pt Catalysts for the Chlorine Evolution Reaction: Potential-Dependent Switching of the Kinetics and Mechanism. <i>ACS Catalysis</i> , <b>2021</b> , 11, 12232-12246	13.1	8
205	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1516-1527	13.1	7
204	Strong Bathochromic Shift of Conjugated Polymer Nanowires Assembled with a Liquid Crystalline Alkyl Benzoic Acid via a Film Dispersion Process.. <i>ACS Omega</i> , <b>2021</b> , 6, 34876-34888	3.9	1
203	Ultralow-dielectric-constant amorphous boron nitride. <i>Nature</i> , <b>2020</b> , 582, 511-514	50.4	68
202	Control of Particle Dispersion with Autophobic Dewetting in Polymer Nanocomposites. <i>Macromolecules</i> , <b>2020</b> , 53, 4836-4844	5.5	2
201	Unveiling the Relationship between the Perovskite Precursor Solution and the Resulting Device Performance. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6251-6260	16.4	57
200	A Thermally Induced Perovskite Crystal Control Strategy for Efficient and Photostable Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000033	7.1	13
199	Orientation Control of Semiconducting Polymers Using Microchannel Molds. <i>ACS Nano</i> , <b>2020</b> , 14, 12951-12961	12.9	17
198	A General Strategy to Atomically Dispersed Precious Metal Catalysts for Unravelling Their Catalytic Trends for Oxygen Reduction Reaction. <i>ACS Nano</i> , <b>2020</b> , 14, 1990-2001	16.7	58
197	Enhanced hydrolytic and electrical stability of eco-friendly processed polyimide gate dielectrics for organic transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 14370-14377	7.1	2
196	Terminal alkyl substitution in an ADA-type nonfullerene acceptor: simultaneous improvements in the open-circuit voltage and short-circuit current for efficient indoor power generation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23894-23905	13	10
195	Lyotropic Chromonic Liquid Crystals and Their Impurities Reveal the Importance of the Position of Functional Groups in Self-Assembly. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 9246-9254	3.4	3
194	Revealing Isolated M-N C Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23678-23683	16.4	30
193	Gradient tantalum-doped hematite homojunction photoanode improves both photocurrents and turn-on voltage for solar water splitting. <i>Nature Communications</i> , <b>2020</b> , 11, 4622	17.4	52
192	Design of a Janus-Faced Electrode for Highly Stretchable ZincSilver Rechargeable Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004137	15.6	8
191	Directed self-assembly of a helical nanofilament liquid crystal phase for use as structural color reflectors. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	21

190	Controllable liquid crystal defect arrays induced by an in-plane electric field and their lithographic applications. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1713-1719	7.1	12
189	Structure-directing effect of single crystal graphene film on polymer carbonization and graphitization. <i>Materials Horizons</i> , <b>2019</b> , 6, 796-801	14.4	20
188	Shear-solvo defect annihilation of diblock copolymer thin films over a large area. <i>Science Advances</i> , <b>2019</b> , 5, eaaw3974	14.3	10
187	Aqueous dispersions of thienoisindigo-based semiconductor nanorods assembled with 2-bromobenzaldehyde and a phospholipid. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 288, 111046	6	2
186	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903039	24	27
185	Improving the Electrical Connection of n-Type Conjugated Polymers through Fluorine-Induced Robust Aggregation. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4864-4872	9.6	18
184	Ordered Mesoporous Metastable $\beta$ -MoC1 $\beta$ with Enhanced Water Dissociation Capability for Boosting Alkaline Hydrogen Evolution Activity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901217	15.6	48
183	Poly(3-hexylthiophene) Nanoparticles Prepared via a Film Shattering Process and Hybridization with TiO <sub>2</sub> for Visible-Light Active Photocatalysis. <i>Macromolecular Research</i> , <b>2019</b> , 27, 427-434	1.9	9
182	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). <i>Nature</i> , <b>2019</b> , 567, 511-514	50.4	1366
181	Manipulation of Supramolecular Columnar Structures of H-Bonded Donor-Acceptor Units through Geometrical Nanoconfinement. <i>ChemPhysChem</i> , <b>2019</b> , 20, 890-897	3.2	4
180	Nanoconfined heliconical structure of twist-bend nematic liquid crystal phase. <i>Liquid Crystals</i> , <b>2019</b> , 46, 316-325	2.3	6
179	Efficient Nanostructured TiO <sub>2</sub> /SnS Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901343	34.8	49
178	Long-Term Chemical Aging of Hybrid Halide Perovskites. <i>Nano Letters</i> , <b>2019</b> , 19, 5604-5611	11.5	9
177	Stretchable batteries with gradient multilayer conductors. <i>Science Advances</i> , <b>2019</b> , 5, eaaw1879	14.3	67
176	Initial Solvent-Driven Nonequilibrium Effect on Structure, Properties, and Dynamics of Polymer Nanocomposites. <i>Physical Review Letters</i> , <b>2019</b> , 123, 167801	7.4	14
175	Photothermal Polymer Nanocomposites of Tungsten Bronze Nanorods with Enhanced Tensile Elongation at Low Filler Contents. <i>Polymers</i> , <b>2019</b> , 11,	4.5	6
174	Unassisted solar lignin valorisation using a compartmented photo-electro-biochemical cell. <i>Nature Communications</i> , <b>2019</b> , 10, 5123	17.4	25
173	Superb water splitting activity of the electrocatalyst FeCo(PO) designed with computation aid. <i>Nature Communications</i> , <b>2019</b> , 10, 5195	17.4	65

172	Activity Origin and Multifunctionality of Pt-Based Intermetallic Nanostructures for Efficient Electrocatalysis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11242-11254	13.1	56
171	Synthesis, Molecular Packing, and Electrical Properties of New Regioisomeric n-type Semiconducting Molecules with Modification of Alkyl Substituents Position. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47170-47181	9.5	6
170	Anisotropic, Organic Ionic Plastic Crystal Mesophases from Persubstituted Imidazolium Pentacyanocyclopentadienide Salts. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9593-9603	9.6	10
169	Ferroelectrically Switching Helical Columnar Assembly Comprising Cisoid Conformers of a 1,2,3-Triazole-based Liquid Crystal. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2749-2753	16.4	12
168	Ferroelectrically Switching Helical Columnar Assembly Comprising Cisoid Conformers of a 1,2,3-Triazole-based Liquid Crystal. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2775-2779	3.6	1
167	Heterogeneous Co <sup>II</sup> /C Electrocatalysts with Controlled Cobalt Site Densities for the Hydrogen Evolution Reaction: Structure-Activity Correlations and Kinetic Insights. <i>ACS Catalysis</i> , <b>2019</b> , 9, 83-97	13.1	82
166	Ordered assemblies of Fe <sub>3</sub> O <sub>4</sub> and a donor-acceptor-type $\pi$ -conjugated polymer in nanoparticles for enhanced photoacoustic and magnetic effects. <i>Polymer</i> , <b>2019</b> , 161, 205-213	3.9	8
165	Substituted Azolium Disposition: Examining the Effects of Alkyl Placement on Thermal Properties. <i>Crystals</i> , <b>2019</b> , 9, 34	2.3	3
164	Dicyanamide Salts that Adopt Smectic, Columnar, or Bicontinuous Cubic Liquid-Crystalline Mesophases. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 6399-6411	4.8	11
163	Synthesis and structural analysis of dimethylaminophenyl-end-capped diketopyrrolopyrrole for highly stable electronic devices with polymeric gate dielectric. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 4052-4060	3.6	4
162	Preferential horizontal growth of tungsten sulfide on carbon and insight into active sulfur sites for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 3838-3848	7.7	22
161	Jabuticaba-Inspired Hybrid Carbon Filler/Polymer Electrode for Use in Highly Stretchable Aqueous Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702478	21.8	58
160	Conjugated polymer nano-ellipsoids assembled with octanoic acid and their polyurethane nanocomposites with simultaneous thermal storage and antibacterial activity. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 63, 33-40	6.3	11
159	Multicomponent electrocatalyst with ultralow Pt loading and high hydrogen evolution activity. <i>Nature Energy</i> , <b>2018</b> , 3, 773-782	62.3	330
158	Enhanced Mechanical Properties of Polymer Nanocomposites Using Dopamine-Modified Polymers at Nanoparticle Surfaces in Very Low Molecular Weight Polymers. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 962-967	6.6	13
157	1,4-Di(3-alkoxy-2-thienyl)-2,5-difluorophenylene: A Building Block Enabling High-Performance Polymer Semiconductors with Increased Open-Circuit Voltages. <i>Macromolecules</i> , <b>2018</b> , 51, 5352-5363	5.5	13
156	Adsorption and Incorporation of Arsenic to Biogenic Lepidocrocite Formed in the Presence of Ferrous Iron during Denitrification by <i>Paracoccus denitrificans</i> . <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 9983-9991	10.3	24
155	Fast two-step deposition of perovskite via mediator extraction treatment for large-area, high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12447-12454	13	60

154	Machine-Washable Smart Textiles with Photothermal and Antibacterial Activities from Nanocomposite Fibers of Conjugated Polymer Nanoparticles and Polyacrylonitrile. <i>Polymers</i> , <b>2018</b> , 11,	4.5	10
153	Tailored Colloidal Stability and Rheological Properties of Graphene Oxide Liquid Crystals with Polymer-Induced Depletion Attractions. <i>ACS Nano</i> , <b>2018</b> , 12, 11399-11406	16.7	17
152	Rational Design and Construction of Hierarchical Superstructures Using Shape-Persistent Organic Cages: Porphyrin Box-Based Metallosupramolecular Assemblies. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14547-14551	16.4	33
151	Thienoisindigo-Based Semiconductor Nanowires Assembled with 2-Bromobenzaldehyde via Both Halogen and Chalcogen Bonding. <i>Scientific Reports</i> , <b>2018</b> , 8, 14448	4.9	14
150	Highly Oriented Liquid Crystal Semiconductor for Organic Field-Effect Transistors. <i>ACS Central Science</i> , <b>2018</b> , 4, 1495-1502	16.8	20
149	Anisotropy-Driven High Thermal Conductivity in Stretchable Poly(vinyl alcohol)/Hexagonal Boron Nitride Nanohybrid Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34625-34633	9.5	49
148	Promoting Oxygen Reduction Reaction Activity of Fe <sub>N</sub> /C Electrocatalysts by Silica-Coating-Mediated Synthesis for Anion-Exchange Membrane Fuel Cells. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6684-6701	9.6	69
147	Structural features and their functions in surfactant-armoured methylammonium lead iodide perovskites for highly efficient and stable solar cells. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2188-2197	23.4	116
146	Structural transitions and guest/host complexing of liquid crystal helical nanofilaments induced by nanoconfinement. <i>Science Advances</i> , <b>2017</b> , 3, e1602102	14.3	29
145	P2 Orthorhombic Na[MnLi]O as Cathode Materials for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14758-14768	9.5	44
144	Log-Rolling Block Copolymer Cylinders. <i>Macromolecules</i> , <b>2017</b> , 50, 3607-3616	5.5	10
143	Artificial light-harvesting n-type porphyrin for panchromatic organic photovoltaic devices. <i>Chemical Science</i> , <b>2017</b> , 8, 5095-5100	9.4	45
142	Orthogonal Liquid Crystal Alignment Layer: Templating Speed-Dependent Orientation of Chromonic Liquid Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18355-18361	9.5	21
141	Molecular Beam Epitaxy of Highly Crystalline Monolayer Molybdenum Disulfide on Hexagonal Boron Nitride. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9392-9400	16.4	110
140	Dark current reduction strategies using edge-on aligned donor polymers for high detectivity and responsivity organic photodetectors. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3612-3621	4.9	27
139	Nanowires of amorphous conjugated polymers prepared via a surfactant-templating process using an alkylbenzoic acid. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 51, 172-177	6.3	9
138	Mix-and-Match Assembly of Block Copolymer Blends in Solution. <i>Macromolecules</i> , <b>2017</b> , 50, 3234-3243	5.5	33
137	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Zn <sub>air</sub> batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 129-136	35.4	121

136	Honeycomb-layer structured Na <sub>3</sub> Ni <sub>2</sub> BiO <sub>6</sub> as a high voltage and long life cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1300-1310	13	51
135	Oriented columnar films of a polar 1,2,3-triazole-based liquid crystal prepared by applying an electric field. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8256-8265	7.1	14
134	Conjugated Polymer Nanoparticles in Aqueous Media by Assembly with Phospholipids via Dense Alkyl Chain Packing. <i>Macromolecules</i> , <b>2017</b> , 50, 6935-6944	5.5	14
133	Domain swelling in ARB-type triblock copolymers via self-adjusting effective dispersity. <i>Soft Matter</i> , <b>2017</b> , 13, 5527-5534	3.6	3
132	Fully Elastic Conductive Films from Viscoelastic Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44096-44105	9.5	16
131	Over 10% efficiency in single-junction polymer solar cells developed from easily accessible random terpolymers. <i>Nano Energy</i> , <b>2017</b> , 39, 229-237	17.1	42
130	Direct observation of liquid crystal phases under nanoconfinement: A grazing incidence X-ray diffraction study. <i>Liquid Crystals</i> , <b>2017</b> , 44, 713-721	2.3	10
129	Self-Supported Mesoporous Pt-Based Bimetallic Nanospheres Containing an Intermetallic Phase as Ultrastable Oxygen Reduction Electrocatalysts. <i>Small</i> , <b>2016</b> , 12, 5347-5353	11	63
128	A General Approach to Preferential Formation of Active Fe-N Sites in Fe-N/C Electrocatalysts for Efficient Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15046-15056	16.4	523
127	Customized Energy Down-Shift Using Iridium Complexes for Enhanced Performance of Polymer Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 991-999	20.1	15
126	Size-Dependent Activity Trends Combined with in Situ X-ray Absorption Spectroscopy Reveal Insights into Cobalt Oxide/Carbon Nanotube-Catalyzed Bifunctional Oxygen Electrocatalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4347-4355	13.1	95
125	Structural Requirements of Block Copolymers for Self-Assembly into Inverse Bicontinuous Cubic Mesophases in Solution. <i>Macromolecules</i> , <b>2016</b> , 49, 4510-4519	5.5	33
124	Effect of surface oxygen functionalization of carbon support on the activity and durability of Pt/C catalysts for the oxygen reduction reaction. <i>Carbon</i> , <b>2016</b> , 101, 449-457	10.4	86
123	Linkage-length dependent structuring behaviour of bent-core molecules in helical nanostructures. <i>Soft Matter</i> , <b>2016</b> , 12, 3326-30	3.6	14
122	CH bond arylation of anilides inside copper-exchanged zeolites. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 417, 64-70		4
121	Epitaxial Growth of Thin Ferroelectric Polymer Films on Graphene Layer for Fully Transparent and Flexible Nonvolatile Memory. <i>Nano Letters</i> , <b>2016</b> , 16, 334-40	11.5	101
120	Facile synthesis of arylthiophenyl-functionalized diketopyrrolopyrrole derivatives via direct C-H arylation: characterization and utilization in organic electronic devices. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 385-392	3.6	14
119	Geometrically controlled organic small molecule acceptors for efficient fullerene-free organic photovoltaic devices. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12308-12318	13	48

118	A Wide Bandgap Polymer with Strong $\pi$ -Interaction for Efficient Fullerene-Free Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600742	21.8	74
117	Fabrication of disordered porous structures by solvent-assisted reorganisation of liquid crystal materials. <i>Liquid Crystals</i> , <b>2016</b> , 43, 1198-1207	2.3	
116	Siloxane Side Chains: A Universal Tool for Practical Applications of Organic Field-Effect Transistors. <i>Macromolecules</i> , <b>2016</b> , 49, 3739-3748	5.5	51
115	Wafer-Scale and Wrinkle-Free Epitaxial Growth of Single-Orientated Multilayer Hexagonal Boron Nitride on Sapphire. <i>Nano Letters</i> , <b>2016</b> , 16, 3360-6	11.5	130
114	Highly Efficient Fullerene-Free Polymer Solar Cells Fabricated with Polythiophene Derivative. <i>Advanced Materials</i> , <b>2016</b> , 28, 9416-9422	24	253
113	Dithienogermole-Containing Small-Molecule Solar Cells with 7.3% Efficiency: In-Depth Study on the Effects of Heteroatom Substitution of Si with Ge. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402044	21.8	40
112	Solution self-assembly of block copolymers containing a branched hydrophilic block into inverse bicontinuous cubic mesophases. <i>ACS Nano</i> , <b>2015</b> , 9, 3084-96	16.7	49
111	Mesoporous monoliths of inverse bicontinuous cubic phases of block copolymer bilayers. <i>Nature Communications</i> , <b>2015</b> , 6, 6392	17.4	50
110	Molecular orientation of a new anthracene derivative for highly-efficient blue fluorescence OLEDs. <i>Organic Electronics</i> , <b>2015</b> , 24, 234-240	3.5	9
109	Fluorination on both D and A units in D $\pi$ A type conjugated copolymers based on difluorobithiophene and benzothiadiazole for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2427-2434	35.4	156
108	A Balanced Face-On to Edge-On Texture Ratio in Naphthalene Diimide-Based Polymers with Hybrid Siloxane Chains Directs Highly Efficient Electron Transport. <i>Macromolecules</i> , <b>2015</b> , 48, 5179-5187	5.5	72
107	Physico-chemical confinement of helical nanofilaments. <i>Soft Matter</i> , <b>2015</b> , 11, 3653-9	3.6	15
106	Effects of Ag-embedment on electronic and ionic conductivities of LiMnPO <sub>4</sub> and its performance as a cathode for lithium-ion batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 13860-7	7.7	18
105	Pronounced Cosolvent Effects in Polymer:Polymer Bulk Heterojunction Solar Cells with Sulfur-Rich Electron-Donating and Imide-Containing Electron-Accepting Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15995-6002	9.5	22
104	Unusual Li-ion storage through anionic redox processes of bacteria-driven tellurium nanorods. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16978-16987	13	12
103	Long-term stability of CdSe/CdZnS quantum dot encapsulated in a multi-lamellar microcapsule. <i>Nanotechnology</i> , <b>2015</b> , 26, 275602	3.4	20
102	Bathochromic shift in absorption spectra of conjugated polymer nanoparticles with displacement along backbones. <i>Macromolecular Research</i> , <b>2015</b> , 23, 574-577	1.9	22
101	Efficient organic photovoltaics utilizing nanoscale heterojunctions in sequentially deposited polymer/fullerene bilayer. <i>Scientific Reports</i> , <b>2015</b> , 5, 8373	4.9	41



100	Self-Assembled, Millimeter-Sized TIPS-Pentacene Spherulites Grown on Partially Crosslinked Polymer Gate Dielectric. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3658-3665	15.6	33
99	Two different mechanisms of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> film formation in one-step deposition and its effect on photovoltaic properties of OPV-type perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23964-23972	13	68
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97	Ultrathin polycrystalline 6,13-Bis(triisopropylsilylethynyl)-pentacene films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 021506	2.9	
96	Creation of liquid-crystal periodic zigzags by surface treatment and thermal annealing. <i>Soft Matter</i> , <b>2015</b> , 11, 8584-9	3.6	11
95	A Timely Synthetic Tailoring of Biaxially Extended Thienylenevinylene-Like Polymers for Systematic Investigation on Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 586-596	15.6	48
94	Improved Performance in Polymer Solar Cells Using Mixed PC61BM/PC71BM Acceptors. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401687	21.8	58
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1	Enhancement of Piezoelectricity in Dimensionally Engineered Metal-Halide Perovskites Induced by Deep Level Defects. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 190181	21.8	0