

Bumjoon J Kim

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.

275
papers

13,701
citations

62
h-index

105
g-index

294
ext. papers

15,823
ext. citations

11.5
avg, IF

6.81
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 275 | Regioregularity-control of conjugated polymers: from synthesis and properties, to photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2672-2696 | 13 | 6 |
| 274 | Lens-Shaped Carbon Particles with Perpendicularly-Oriented Channels for High-Performance Proton Exchange Membrane Fuel Cells.. <i>ACS Nano</i> , 2022 , | 16.7 | 1 |
| 273 | Elastomeric electrolytes for high-energy solid-state lithium batteries.. <i>Nature</i> , 2022 , 601, 217-222 | 50.4 | 45 |
| 272 | Efficient, thermally stable poly(3-hexylthiophene)-based organic solar cells achieved by non-covalently fused-ring small molecule acceptors. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 640-650 | 13 | 5 |
| 271 | Highly Flexible and Durable Thermoelectric Power Generator Using CNT/PDMS Foam by Rapid Solvent Evaporation.. <i>Small</i> , 2022 , e2106108 | 11 | 4 |
| 270 | 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anode-Free Sodium Metal Batteries.. <i>Advanced Materials</i> , 2022 , e2109767 | 24 | 9 |
| 269 | Synergistic Engineering of Side Chains and Backbone Regioregularity of Polymer Acceptors for High-Performance All-Polymer Solar Cells with 15.1% Efficiency. <i>Advanced Energy Materials</i> , 2022 , 12, 2103239 | 21.8 | 7 |
| 268 | Triallyl isocyanurate-assisted grafting of maleic anhydride to poly(lactic acid): Efficient compatibilizers for poly(lactic acid)/talc composites with enhanced mechanical properties. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51488 | 2.9 | 0 |
| 267 | Meso-Extended/Deficient BODIPYs and Low-Band-Gap Donor-Acceptor Copolymers for Organic Optoelectronics. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1991-2005 | 4.3 | 1 |
| 266 | Synthesis and Self-Assembly of Poly(vinylpyridine)-Containing Brush Block Copolymers: Combined Synthesis of Grafting-Through and Grafting-to Approaches. <i>Macromolecules</i> , 2022 , 55, 1590-1599 | 5.5 | 0 |
| 265 | High-Performance, Flexible NO Chemiresistors Achieved by Design of Imine-Incorporated n-Type Conjugated Polymers.. <i>Advanced Science</i> , 2022 , e2200270 | 13.6 | 4 |
| 264 | A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anode-Free Sodium-Metal Batteries (Adv. Mater. 14/2022). <i>Advanced Materials</i> , 2022 , 34, 2270111 | 24 | 0 |
| 263 | Cyano-Functionalized n-Type Polymer with High Electron Mobility for High-Performance Organic Electrochemical Transistors.. <i>Advanced Materials</i> , 2022 , e2201340 | 24 | 6 |
| 262 | Revisiting the Classical Wide-Bandgap Homo- and Random Copolymers for Indoor Artificial Light Photovoltaics.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200279 | 4.8 | 0 |
| 261 | Donor-Acceptor Alternating Copolymer Compatibilizers for Thermally Stable, Mechanically Robust, and High-Performance Organic Solar Cells. <i>ACS Nano</i> , 2021 , | 16.7 | 7 |
| 260 | Polymer Acceptors with Flexible Spacers Afford Efficient and Mechanically Robust All-Polymer Solar Cells. <i>Advanced Materials</i> , 2021 , e2107361 | 24 | 22 |
| 259 | High Current-density Organic Electrochemical Diodes Enabled by Asymmetric Active Layer Design. <i>Advanced Materials</i> , 2021 , e2107355 | 24 | 1 |

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| 258 | Eco-compatible and highly efficient organic solar cells with an aggregation-controlled terpolymer strategy. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27551-27559 | 13 | 1 |
| 257 | Simultaneous Measurement of Glass-Transition Temperature and Crystallinity of As-Prepared Polymeric Films from Restitution. <i>Macromolecules</i> , 2021 , 54, 9532-9541 | 5.5 | 1 |
| 256 | Polymer Donors with Temperature-Insensitive, Strong Aggregation Properties Enabling Additive-Free, Processing Temperature-Tolerant High-Performance All-Polymer Solar Cells. <i>Macromolecules</i> , 2021 , 54, 53-63 | 5.5 | 17 |
| 255 | Solid-State Organic Electrolyte-Gated Transistors Based on Doping-Controlled Polymer Composites with a Confined Two-Dimensional Channel in Dry Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1065-1075 | 9.5 | 9 |
| 254 | Mantis shrimp-inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. <i>Science Advances</i> , 2021 , 7, | 14.3 | 14 |
| 253 | Effect of Polymer Ligand Conformation on the Self-Assembly of Block Copolymers and Polymer-Grafted Nanoparticles within an Evaporative Emulsion. <i>Macromolecules</i> , 2021 , 54, 3084-3092 | 5.5 | 9 |
| 252 | Cyano-Functionalized Quinoxaline-Based Polymer Acceptors for All-Polymer Solar Cells and Organic Transistors. <i>ChemSusChem</i> , 2021 , 14, 3520-3527 | 8.3 | 7 |
| 251 | High-Molecular-Weight Electroactive Polymer Additives for Simultaneous Enhancement of Photovoltaic Efficiency and Mechanical Robustness in High-Performance Polymer Solar Cells. <i>Jacs Au</i> , 2021 , 1, 612-622 | | 15 |
| 250 | Importance of Terminal Group Pairing of Polymer Donor and Small-Molecule Acceptor in Optimizing Blend Morphology and Voltage Loss of High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2100870 | 15.6 | 15 |
| 249 | Regioregularity-Dependent Crystalline Structures and Thermal Transitions in Poly(3-dodecylthiophene)s. <i>Chemistry of Materials</i> , 2021 , 33, 3312-3320 | 9.6 | 2 |
| 248 | Fullerene/non-fullerene hybrid acceptors for enhanced light absorption and electrical properties in organic solar cells. <i>Materials Today Energy</i> , 2021 , 20, 100651 | 7 | 5 |
| 247 | Intrinsically Stretchable Organic Solar Cells with Efficiencies of over 11%. <i>ACS Energy Letters</i> , 2021 , 6, 2512-2518 | 20.1 | 25 |
| 246 | Fluorescence Switchable Block Copolymer Particles with Doubly Alternate-Layered Nanoparticle Arrays. <i>Small</i> , 2021 , 17, e2101222 | 11 | 8 |
| 245 | Electron Transport Layers Based on Oligo(ethylene glycol)-Incorporated Polymers Enabling Reproducible Fabrication of High-Performance Organic Solar Cells. <i>Macromolecules</i> , 2021 , 54, 7102-7112 | 5.5 | 6 |
| 244 | Highly Efficient and Stable Perovskite Solar Cells Enabled by Low-Cost Industrial Organic Pigment Coating. <i>Angewandte Chemie</i> , 2021 , 133, 2515-2522 | 3.6 | 5 |
| 243 | Highly Efficient and Stable Perovskite Solar Cells Enabled by Low-Cost Industrial Organic Pigment Coating. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2485-2492 | 16.4 | 24 |
| 242 | Efficient, Thermally Stable, and Mechanically Robust All-Polymer Solar Cells Consisting of the Same Benzodithiophene Unit-Based Polymer Acceptor and Donor with High Molecular Compatibility. <i>Advanced Energy Materials</i> , 2021 , 11, 2003367 | 21.8 | 61 |
| 241 | Highly efficient and air stable thermoelectric devices of poly(3-hexylthiophene) by dual doping of Au metal precursors. <i>Nano Energy</i> , 2021 , 82, 105681 | 17.1 | 12 |

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| 240 | Ester-functionalized, wide-bandgap derivatives of PM7 for simultaneous enhancement of photovoltaic performance and mechanical robustness of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2775-2783 | 13 | 9 |
| 239 | Aniline-based hole transporting materials for high-performance organic solar cells with enhanced ambient stability. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15787-15797 | 13 | 3 |
| 238 | Flexible-spacer incorporated polymer donors enable superior blend miscibility for high-performance and mechanically-robust polymer solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 4067-4076 | 35.4 | 34 |
| 237 | Molecular Weight Dependent Morphological Transitions of Bottlebrush Block Copolymer Particles: Experiments and Simulations. <i>ACS Nano</i> , 2021 , 15, 5513-5522 | 16.7 | 10 |
| 236 | Influence of Drying Conditions on Device Performances of Antisolvent-Assisted Roll-to-Roll Slot Die-Coated Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7611-7621 | 6.1 | 5 |
| 235 | Regioregular Narrow-Bandgap n-Type Polymers with High Electron Mobility Enabling Highly Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2102635 | 24 | 51 |
| 234 | Photoswitchable Surfactant-Driven Reversible Shape- and Color-Changing Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13333-13341 | 16.4 | 10 |
| 233 | Effects of the Selective Alkoxy Side Chain Position in Quinoxaline-Based Polymer Acceptors on the Performance of All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47817-47825 | 9.5 | 2 |
| 232 | Side Chain Engineered Naphthalene Diimide-Based Terpolymer for Efficient and Mechanically Robust All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 1070-1081 | 9.6 | 23 |
| 231 | Light-Active, Reversibly Shape-Shifting Block Copolymer Particles Using Photo-switchable Au Nanoparticle Surfactants. <i>Chemistry of Materials</i> , 2021 , 33, 9769-9779 | 9.6 | 2 |
| 230 | Impact of Chlorination Patterns of Naphthalenediimide-Based Polymers on Aggregated Structure, Crystallinity, and Device Performance of All-Polymer Solar Cells and Organic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56240-56250 | 9.5 | 7 |
| 229 | Switchable Full-Color Reflective Photonic Ellipsoidal Particles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10424-10430 | 16.4 | 41 |
| 228 | Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13049-13058 | 13 | 27 |
| 227 | Naphthalene Diimide-Based Terpolymers with Controlled Crystalline Properties for Producing High Electron Mobility and Optimal Blend Morphology in All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 2572-2582 | 9.6 | 46 |
| 226 | Triad-type, multi-functional compatibilizers for enhancing efficiency, stability and mechanical robustness of polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13522-13531 | 13 | 12 |
| 225 | 100th Anniversary of Macromolecular Science Viewpoint: Block Copolymer Particles: Tuning Shape, Interfaces, and Morphology. <i>ACS Macro Letters</i> , 2020 , 9, 306-317 | 6.6 | 64 |
| 224 | Importance of device structure and interlayer design in storage stability of naphthalene diimide-based all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3735-3745 | 13 | 9 |
| 223 | Effect of Polymeric Stabilizers on Dispersion Homogeneity of Nanofillers and Thermal Conductivity Enhancement of Composites. <i>Langmuir</i> , 2020 , 36, 5563-5570 | 4 | 5 |

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| 222 | Stabilization of complex morphologies in highly disperse AB diblock copolymers. <i>Polymer</i> , 2020 , 198, 122519 | 3.9 | 0 |
| 221 | Elucidating Roles of Polymer Donor Aggregation in All-Polymer and Non-Fullerene Small-Molecule Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 3585-3596 | 9.6 | 25 |
| 220 | Chain-Length-Dependent Self-Assembly Behaviors of Discrete Conjugated Oligo(3-hexylthiophene). <i>Chemistry of Materials</i> , 2020 , 32, 3597-3607 | 9.6 | 11 |
| 219 | Origin of the High Donor/Acceptor Composition Tolerance in Device Performance and Mechanical Robustness of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 582-594 | 9.6 | 38 |
| 218 | High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide. <i>High Performance Polymers</i> , 2020 , 32, 569-587 | 1.6 | 3 |
| 217 | Spring-loaded inverted pendulum modeling improves neural network estimation of ground reaction forces. <i>Journal of Biomechanics</i> , 2020 , 113, 110069 | 2.9 | 0 |
| 216 | Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3304-3313 | 20.1 | 26 |
| 215 | Poly(3-hexylthiophene-2,5-diyl): Evidence of different polymer chain conformations in the solid state from a combined study of regioregularity control and Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2020 , 1221, 128882 | 3.4 | 1 |
| 214 | Highly durable fuel cell catalysts using crosslinkable block copolymer-based carbon supports with ultralow Pt loadings. <i>Energy and Environmental Science</i> , 2020 , 13, 4921-4929 | 35.4 | 28 |
| 213 | Fluorescent Polymer-MoS-Embedded Microgels for Photothermal Heating and Colorimetric Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35415-35423 | 9.5 | 6 |
| 212 | Interfacial Instability-Driven Morphological Transition of Prolate Block Copolymer Particles: Striped Football, Larva to Sphere. <i>Macromolecules</i> , 2020 , 53, 7198-7206 | 5.5 | 10 |
| 211 | Entropy-Driven Assembly of Nanoparticles within Emulsion-Evaporative Block Copolymer Particles: Crusted, Seeded, and Alternate-Layered Onions. <i>Chemistry of Materials</i> , 2020 , 32, 7036-7043 | 9.6 | 14 |
| 210 | Hydrogen Sensors Based on MoS Hollow Architectures Assembled by Pickering Emulsion. <i>ACS Nano</i> , 2020 , 14, 9652-9661 | 16.7 | 24 |
| 209 | Softness- and Size-Dependent Packing Symmetries of Polymer-Grafted Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 9644-9651 | 16.7 | 26 |
| 208 | Development of highly efficient large area organic photovoltaic module: Effects of nonfullerene acceptor. <i>Nano Energy</i> , 2020 , 77, 105147 | 17.1 | 9 |
| 207 | C70-based aqueous-soluble fullerene for the water composition-tolerant performance of eco-friendly polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15224-15233 | 7.1 | 8 |
| 206 | Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. <i>ACS Nano</i> , 2020 , 14, 14493-14527 | 16.7 | 66 |
| 205 | Terminal alkyl substitution in an AD _n -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> , 2020 , 8, 23894-23905 | 13 | 10 |

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| 204 | Metal Halide Regulated Photophysical Tuning of Zero-Dimensional Organic Metal Halide Hybrids: From Efficient Phosphorescence to Ultralong Afterglow. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23067-23071 | 16.4 | 37 |
| 203 | Metal Halide Regulated Photophysical Tuning of Zero-Dimensional Organic Metal Halide Hybrids: From Efficient Phosphorescence to Ultralong Afterglow. <i>Angewandte Chemie</i> , 2020 , 132, 23267-23271 | 3.6 | 12 |
| 202 | Importance of Optimal Crystallinity and Hole Mobility of BDT-Based Polymer Donor for Simultaneous Enhancements of Voc, Jsc, and FF in Efficient Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2005787 | 15.6 | 28 |
| 201 | Impact of Incorporating Nitrogen Atoms in Naphthalenediimide-Based Polymer Acceptors on the Charge Generation, Device Performance, and Stability of All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35896-35903 | 9.5 | 20 |
| 200 | Influence of Acceptor Type and Polymer Molecular Weight on the Mechanical Properties of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 9057-9069 | 9.6 | 63 |
| 199 | Synthesis and crystallization behavior of regioregular-block-regiorandom poly(3-hexylthiophene) copolymers. <i>Polymer Chemistry</i> , 2019 , 10, 3030-3039 | 4.9 | 9 |
| 198 | Shape-Anisotropic Diblock Copolymer Particles from Evaporative Emulsions: Experiment and Theory. <i>Macromolecules</i> , 2019 , 52, 1150-1157 | 5.5 | 36 |
| 197 | Influence of backbone modification of difluoroquinoxaline-based copolymers on the interchain packing, blend morphology and photovoltaic properties of nonfullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1681-1689 | 7.1 | 18 |
| 196 | Recent Advances, Design Guidelines, and Prospects of All-Polymer Solar Cells. <i>Chemical Reviews</i> , 2019 , 119, 8028-8086 | 68.1 | 367 |
| 195 | Dual Imide-Functionalized Unit-Based Regioregular D-A-D-A Polymers for Efficient Unipolar n-Channel Organic Transistors and All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22583-22594 | 9.5 | 26 |
| 194 | Confined, Templated, and Break-Through Crystallization Modes in Poly(3-dodecylthiophene)-block-poly(ethyl methacrylate) Block Copolymers. <i>Macromolecules</i> , 2019 , 52, 4475-4482 | 5.5 | 11 |
| 193 | Importance of Critical Molecular Weight of Semicrystalline n-Type Polymers for Mechanically Robust, Efficient Electroactive Thin Films. <i>Chemistry of Materials</i> , 2019 , 31, 3163-3173 | 9.6 | 60 |
| 192 | Shape and Color Switchable Block Copolymer Particles by Temperature and pH Dual Responses. <i>ACS Nano</i> , 2019 , 13, 4230-4237 | 16.7 | 50 |
| 191 | Shape control of nanostructured cone-shaped particles by tuning the blend morphology of A-b-B diblock copolymers and C-type copolymers within emulsion droplets. <i>Polymer Chemistry</i> , 2019 , 10, 2415-2423 | 4.9 | 11 |
| 190 | Bench-Scale Synthesis and Characterization of Biodegradable Aliphatic-Aromatic Random Copolymers with 1,4-Cyclohexanedimethanol Units Toward Sustainable Packaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4734-4743 | 8.3 | 8 |
| 189 | Rapid solvo-microwave annealing for optimizing ordered nanostructures and crystallization of regioregular polythiophene-based block copolymers. <i>Polymer Chemistry</i> , 2019 , 10, 4962-4972 | 4.9 | 3 |
| 188 | Light-Responsive, Shape-Switchable Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15348-15355 | 16.4 | 57 |
| 187 | Regioregularity controlled phase behavior for Poly(3-hexylthiophene): A combined study of simple coarse-grained simulation and experiment. <i>Polymer</i> , 2019 , 178, 121569 | 3.9 | 1 |

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| 186 | Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. <i>Chemistry of Materials</i> , 2019 , 31, 5264-5273 | 9.6 | 26 |
| 185 | Regioregular-block-Regiorandom Poly(3-hexylthiophene) Copolymers for Mechanically Robust and High-Performance Thin-Film Transistors. <i>Macromolecules</i> , 2019 , 52, 7721-7730 | 5.5 | 25 |
| 184 | Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45038-45047 | 9.5 | 30 |
| 183 | Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. <i>Sensors</i> , 2019 , 20, | 3.8 | 30 |
| 182 | Development of Shape-Tuned, Monodisperse Block Copolymer Particles through Solvent-Mediated Particle Restructuring. <i>Chemistry of Materials</i> , 2019 , 31, 1066-1074 | 9.6 | 31 |
| 181 | Synergistic Effects of Terpolymer Regioregularity on the Performance of All-Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 738-746 | 5.5 | 11 |
| 180 | Regioisomeric wide-band-gap polymers with different fluorine topologies for non-fullerene organic solar cells. <i>Polymer Chemistry</i> , 2019 , 10, 395-402 | 4.9 | 13 |
| 179 | Microcapsules Containing pH-Responsive, Fluorescent Polymer-Integrated MoS ₂ : An Effective Platform for in Situ pH Sensing and Photothermal Heating. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9023-9031 | 9.5 | 38 |
| 178 | Comparative Study of the Mechanical Properties of All-Polymer and Fullerene Polymer Solar Cells: The Importance of Polymer Acceptors for High Fracture Resistance. <i>Chemistry of Materials</i> , 2018 , 30, 2102-2111 | 9.6 | 65 |
| 177 | Mechanically robust and high-performance ternary solar cells combining the merits of all-polymer and fullerene blends. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4494-4503 | 13 | 43 |
| 176 | One-step fermentative production of aromatic polyesters from glucose by metabolically engineered <i>Escherichia coli</i> strains. <i>Nature Communications</i> , 2018 , 9, 79 | 17.4 | 56 |
| 175 | Efficient Approach for Improving the Performance of Nonhalogenated Green Solvent-Processed Polymer Solar Cells via Ternary-Blend Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13748-13756 | 9.5 | 16 |
| 174 | High-performance, recyclable ultrafiltration membranes from P4VP-assisted dispersion of flame-resistant boron nitride nanotubes. <i>Journal of Membrane Science</i> , 2018 , 551, 172-179 | 9.6 | 23 |
| 173 | Design of Cyanovinylene-Containing Polymer Acceptors with Large Dipole Moment Change for Efficient Charge Generation in High-Performance All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701436 | 21.8 | 59 |
| 172 | Shift of the Branching Point of the Side-Chain in Naphthalenediimide (NDI)-Based Polymer for Enhanced Electron Mobility and All-Polymer Solar Cell Performance. <i>Advanced Functional Materials</i> , 2018 , 28, 1803613 | 15.6 | 58 |
| 171 | Aspect Ratio-Controlled Synthesis of Uniform Colloidal Block Copolymer Ellipsoids from Evaporative Emulsions. <i>Chemistry of Materials</i> , 2018 , 30, 6277-6288 | 9.6 | 28 |
| 170 | Aqueous Soluble Fullerene Acceptors for Efficient Eco-Friendly Polymer Solar Cells Processed from Benign Ethanol/Water Mixtures. <i>Chemistry of Materials</i> , 2018 , 30, 5663-5672 | 9.6 | 26 |
| 169 | Multidimensional Design of Anisotropic Polymer Particles from Solvent-Evaporative Emulsion. <i>Advanced Functional Materials</i> , 2018 , 28, 1802961 | 15.6 | 90 |

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| 168 | Morphological Stability in Bulk Heterojunction Polymer Solar Cells. <i>Materials and Energy</i> , 2018 , 165-208 | | |
| 167 | Semiconducting Copolymers Based on meso-Substituted BODIPY for Inverted Organic Solar Cells and Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700354 | 6.4 | 13 |
| 166 | A High Dielectric N-Type Small Molecular Acceptor Containing Oligoethyleneglycol Side-Chains for Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 199-205 | 4.9 | 16 |
| 165 | Crystallization Modes of Poly(3-dodecylthiophene)-Based Block Copolymers Depend on Regioregularity and Morphology. <i>Macromolecules</i> , 2018 , 51, 9276-9283 | 5.5 | 11 |
| 164 | Organic Electronics: Efficient and Air-Stable Aqueous-Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thin-Film Morphologies of Electroactive Materials (Adv. Energy Mater. 34/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870149 | 21.8 | 1 |
| 163 | Polymer Solar Cells: Low-Temperature Processable High-Performance D _A -Type Random Copolymers for Nonfullerene Polymer Solar Cells and Application to Flexible Devices (Adv. Energy Mater. 30/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870132 | 21.8 | 2 |
| 162 | Organic Electronics: Semiconducting Copolymers Based on meso-Substituted BODIPY for Inverted Organic Solar Cells and Field-Effect Transistors (Adv. Electron. Mater. 10/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870049 | 6.4 | 0 |
| 161 | Efficient and Air-Stable Aqueous-Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thin-Film Morphologies of Electroactive Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1802674 | 21.8 | 34 |
| 160 | Modulating Regioregularity of Poly(3-hexylthiophene)-based Amphiphilic Block Copolymers To Control Solution Assembly from Nanowires to Micelles. <i>Chemistry of Materials</i> , 2018 , 30, 7912-7921 | 9.6 | 18 |
| 159 | Ionic Liquid-Carbon Nanotube Sensor Arrays for Human Breath Related Volatile Organic Compounds. <i>ACS Sensors</i> , 2018 , 3, 2432-2437 | 9.2 | 42 |
| 158 | Mechanistic Study on the Shape Transition of Block Copolymer Particles Driven by Length-Controlled Nanorod Surfactants. <i>Chemistry of Materials</i> , 2018 , 30, 8669-8678 | 9.6 | 22 |
| 157 | Impact of Terminal End-Group of Acceptor-Donor-Acceptor-type Small Molecules on Molecular Packing and Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39952-39961 | 9.5 | 14 |
| 156 | Sequentially Fluorinated PTAA Polymers for Enhancing VOC of High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801668 | 21.8 | 87 |
| 155 | Low-Temperature Processable High-Performance D _A -Type Random Copolymers for Nonfullerene Polymer Solar Cells and Application to Flexible Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1801601 | 21.8 | 29 |
| 154 | Domain Structures of Poly(3-dodecylthiophene)-Based Block Copolymers Depend on Regioregularity. <i>Macromolecules</i> , 2018 , 51, 4077-4084 | 5.5 | 15 |
| 153 | Morphological Evolution of Block Copolymer Particles: Effect of Solvent Evaporation Rate on Particle Shape and Morphology. <i>ACS Nano</i> , 2017 , 11, 2133-2142 | 16.7 | 88 |
| 152 | Regioregularity-Driven Morphological Transition of Poly(3-hexylthiophene)-Based Block Copolymers. <i>Macromolecules</i> , 2017 , 50, 1902-1908 | 5.5 | 27 |
| 151 | Synthesis and side-chain engineering of phenylnaphthalenediimide (PNDI)-based n-type polymers for efficient all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5449-5459 | 13 | 26 |

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| 150 | High-Performance Long-Term-Stable Dopant-Free Perovskite Solar Cells and Additive-Free Organic Solar Cells by Employing Newly Designed Multirole π -Conjugated Polymers. <i>Advanced Materials</i> , 2017 , 29, 1700183 | 24 | 113 |
| 149 | Self-Organization of Polymer Additive, Poly(2-vinylpyridine) via One-Step Solution Processing to Enhance the Efficiency and Stability of Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602812 | 21.8 | 26 |
| 148 | Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017 , 50, 4415-4424 | 5.5 | 49 |
| 147 | The Impact of Sequential Fluorination of π -Conjugated Polymers on Charge Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1701256 | 15.6 | 41 |
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