Bumjoon J Kim

List of Publications by Year
in descending order

288 papers	18,184 citations	11651 70 h-index	19190 118 g-index
294 all docs	294 docs citations	294 times ranked	12718 citing authors

#	Article	IF	Citations
1	Triallyl <scp>isocyanurateâ€assisted</scp> grafting of maleic anhydride to poly(lactic acid): Efficient compatibilizers for poly(lactic acid)/talc composites with enhanced mechanical properties. Journal of Applied Polymer Science, 2022, 139, 51488.	2.6	2
2	Disintegrable nâ€Type Electroactive Terpolymers for Highâ€Performance, Transient Organic Electronics. Advanced Functional Materials, 2022, 32, 2106977.	14.9	19
3	Ultraâ€High Alignment of Polymer Semiconductor Blends Enabling Photodetectors with Exceptional Polarization Sensitivity. Advanced Functional Materials, 2022, 32, 2105820.	14.9	7
4	Importance of Highâ€Electron Mobility in Polymer Acceptors for Efficient Allâ€Polymer Solar Cells: Combined Engineering of Backbone Building Unit and Regioregularity. Advanced Functional Materials, 2022, 32, 2108508.	14.9	41
5	Polymer Acceptors with Flexible Spacers Afford Efficient and Mechanically Robust Allâ€Polymer Solar Cells. Advanced Materials, 2022, 34, e2107361.	21.0	89
6	Synergistic Engineering of Side Chains and Backbone Regioregularity of Polymer Acceptors for Highâ€Performance Allâ€Polymer Solar Cells with 15.1% Efficiency. Advanced Energy Materials, 2022, 12, 2103239.	19.5	46
7	Highâ€Current†Density Organic Electrochemical Diodes Enabled by Asymmetric Active Layer Design. Advanced Materials, 2022, 34, e2107355.	21.0	8
8	Highâ€Performance nâ€Type Organic Electrochemical Transistors Enabled by Aqueous Solution Processing of Amphiphilicityâ€Driven Polymer Assembly. Advanced Functional Materials, 2022, 32, 2111950.	14.9	46
9	Regioregularity-control of conjugated polymers: from synthesis and properties, to photovoltaic device applications. Journal of Materials Chemistry A, 2022, 10, 2672-2696.	10.3	23
10	Lens-Shaped Carbon Particles with Perpendicularly-Oriented Channels for High-Performance Proton Exchange Membrane Fuel Cells. ACS Nano, 2022, 16, 2988-2996.	14.6	24
11	Elastomeric electrolytes for high-energy solid-state lithium batteries. Nature, 2022, 601, 217-222.	27.8	290
12	Efficient, thermally stable poly(3-hexylthiophene)-based organic solar cells achieved by non-covalently fused-ring small molecule acceptors. Journal of Materials Chemistry A, 2022, 10, 640-650.	10.3	24
13	Highly Flexible and Durable Thermoelectric Power Generator Using CNT/PDMS Foam by Rapid Solvent Evaporation. Small, 2022, 18, e2106108.	10.0	23
14	A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anodeâ€Free Sodiumâ€Metal Batteries. Advanced Materials, 2022, 34, e2109767.	21.0	79
15	Revisiting carbazole-based polymer donors for efficient and thermally stable polymer solar cells: structural utility of coplanar Ï€-bridged spacers. Journal of Materials Chemistry A, 2022, 10, 9408-9418.	10.3	12
16	Meso-Ï€-Extended/Deficient BODIPYs and Low-Band-Gap Donorâ€“Acceptor Copolymers for Organic Optoelectronics. ACS Applied Polymer Materials, 2022, 4, 1991-2005.	4.4	4
17	Synthesis and Self-Assembly of Poly(vinylpyridine)-Containing Brush Block Copolymers: Combined Synthesis of Grafting-Through and Grafting-to Approaches. Macromolecules, 2022, 55, 1590-1599.	4.8	4
18	Highâ€Performance, Flexible NO₂ Chemiresistors Achieved by Design of Imineâ€Incorporated nâ€Type Conjugated Polymers. Advanced Science, 2022, 9, e2200270.	11.2	28

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19	Effect of the Selective Halogenation of Small Molecule Acceptors on the Blend Morphology and Voltage Loss of Highâ€Performance Solar Cells. Advanced Functional Materials, 2022, 32, .	14.9	27
20	Aqueous-processable, naphthalene diimide-based polymers for eco-friendly fabrication of high-performance, n-type organic electrolyte-gated transistors. Science China Chemistry, 2022, 65, 973-978.	8.2	4
21	A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anodeâ€Free Sodiumâ€Metal Batteries (Adv.) Tj ETQq1 1 0.784314 rgB	21.0	2
22	Poly(vinylpyridine)-containing block copolymers for smart, multicompartment particles. Polymer Chemistry, 2022, 13, 2570-2588.	3.9	18
23	Cyanoâ€Functionalized nâ€Type Polymer with High Electron Mobility for Highâ€Performance Organic Electrochemical Transistors. Advanced Materials, 2022, 34, e2201340.	21.0	54
24	Revisiting the Classical Wideâ€Bandgap HOMO and Random Copolymers for Indoor Artificial Light Photovoltaics. Macromolecular Rapid Communications, 2022, 43, e2200279.	3.9	6
25	Thermomechanical Behavior of Poly(3-hexylthiophene) Thin Films on the Water Surface. ACS Omega, 2022, 7, 19706-19713.	3.5	4
26	Intrinsicallyâ€Stretchable, Efficient Organic Solar Cells Achieved by Highâ€Molecularâ€Weight, Electroâ€Active Polymer Acceptor Additives. Advanced Energy Materials, 2022, 12, .	19.5	45
27	Material Design and Device Fabrication Strategies for Stretchable Organic Solar Cells. Advanced Materials, 2022, 34, .	21.0	67
28	2D Outer Side Chainâ€Incorporated Y Acceptors for Highly Efficient Organic Solar Cells with Nonhalogenated Solvent and Annealingâ€Free Process. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	9
29	Sequentially Fluorinated Polythiophene Donors for Highâ€Performance Organic Solar Cells with 16.4% Efficiency. Advanced Energy Materials, 2022, 12, .	19.5	22
30	Highly Efficient and Stable Perovskite Solar Cells Enabled by Lowâ€Cost Industrial Organic Pigment Coating. Angewandte Chemie, 2021, 133, 2515-2522.	2.0	11
31	Highly Efficient and Stable Perovskite Solar Cells Enabled by Lowâ€Cost Industrial Organic Pigment Coating. Angewandte Chemie - International Edition, 2021, 60, 2485-2492.	13.8	66
32	Efficient, Thermally Stable, and Mechanically Robust Allâ€Polymer Solar Cells Consisting of the Same Benzodithiophene Unitâ€Based Polymer Acceptor and Donor with High Molecular Compatibility. Advanced Energy Materials, 2021, 11, 2003367.	19.5	122
33	Highly efficient and air stable thermoelectric devices of poly(3-hexylthiophene) by dual doping of Au metal precursors. Nano Energy, 2021, 82, 105681.	16.0	27
34	Ester-functionalized, wide-bandgap derivatives of PM7 for simultaneous enhancement of photovoltaic performance and mechanical robustness of all-polymer solar cells. Journal of Materials Chemistry A, 2021, 9, 2775-2783.	10.3	23
35	Aniline-based hole transporting materials for high-performance organic solar cells with enhanced ambient stability. Journal of Materials Chemistry A, 2021, 9, 15787-15797.	10.3	9
36	Flexible-spacer incorporated polymer donors enable superior blend miscibility for high-performance and mechanically-robust polymer solar cells. Energy and Environmental Science, 2021, 14, 4067-4076.	30.8	98

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37	Molecular Weight Dependent Morphological Transitions of Bottlebrush Block Copolymer Particles: Experiments and Simulations. ACS Nano, 2021, 15, 5513-5522.	14.6	24
38	Mantis shrimpâ€“inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. Science Advances, 2021, 7, .	10.3	51
39	Effect of Polymer Ligand Conformation on the Self-Assembly of Block Copolymers and Polymer-Grafted Nanoparticles within an Evaporative Emulsion. Macromolecules, 2021, 54, 3084-3092.	4.8	21
40	Cyanoâ€Functionalized Quinoxalineâ€Based Polymer Acceptors for Allâ€Polymer Solar Cells and Organic Transistors. ChemSusChem, 2021, 14, 3520-3527.	6.8	20
41	Polymersome formation by solvent annealing-induced structural reengineering under 3D soft confinement. Nano Research, 2021, 14, 4644-4649.	10.4	10
42	High-Molecular-Weight Electroactive Polymer Additives for Simultaneous Enhancement of Photovoltaic Efficiency and Mechanical Robustness in High-Performance Polymer Solar Cells. Jacs Au, 2021, 1, 612-622.	7.9	40
43	Importance of Terminal Group Pairing of Polymer Donor and Smallâ€Molecule Acceptor in Optimizing Blend Morphology and Voltage Loss of Highâ€Performance Solar Cells. Advanced Functional Materials, 2021, 31, 2100870.	14.9	34
44	Regioregularity-Dependent Crystalline Structures and Thermal Transitions in Poly(3-dodecylthiophene)s. Chemistry of Materials, 2021, 33, 3312-3320.	6.7	10
45	Fullereneâ€“non-fullerene hybrid acceptors for enhanced light absorption and electrical properties in organic solar cells. Materials Today Energy, 2021, 20, 100651.	4.7	7
46	Intrinsically Stretchable Organic Solar Cells with Efficiencies of over 11%. ACS Energy Letters, 2021, 6, 2512-2518.	17.4	69
47	Fluorescence Switchable Block Copolymer Particles with Doubly Alternateâ€Layered Nanoparticle Arrays. Small, 2021, 17, e2101222.	10.0	16
48	Electron Transport Layers Based on Oligo(ethylene glycol)-Incorporated Polymers Enabling Reproducible Fabrication of High-Performance Organic Solar Cells. Macromolecules, 2021, 54, 7102-7112.	4.8	20
49	Influence of Drying Conditions on Device Performances of Antisolvent-Assisted Roll-to-Roll Slot Die-Coated Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 7611-7621.	5.1	22
50	Regioregular Narrowâ€Bandgap nâ€Type Polymers with High Electron Mobility Enabling Highly Efficient Allâ€Polymer Solar Cells. Advanced Materials, 2021, 33, e2102635.	21.0	151
51	Photoswitchable Surfactant-Driven Reversible Shape- and Color-Changing Block Copolymer Particles. Journal of the American Chemical Society, 2021, 143, 13333-13341.	13.7	55
52	Effects of the Selective Alkoxy Side Chain Position in Quinoxaline-Based Polymer Acceptors on the Performance of All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 47817-47825.	8.0	11
53	Side Chain Engineered Naphthalene Diimide-Based Terpolymer for Efficient and Mechanically Robust All-Polymer Solar Cells. Chemistry of Materials, 2021, 33, 1070-1081.	6.7	46
54	Polymer Donors with Temperature-Insensitive, Strong Aggregation Properties Enabling Additive-Free, Processing Temperature-Tolerant High-Performance All-Polymer Solar Cells. Macromolecules, 2021, 54, 53-63.	4.8	32

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55	Solid-State Organic Electrolyte-Gated Transistors Based on Doping-Controlled Polymer Composites with a Confined Two-Dimensional Channel in Dry Conditions. ACS Applied Materials & Interfaces, 2021, 13, 1065-1075.	8.0	13
56	Green solvent-processed, high-performance organic solar cells achieved by outer side-chain selection of selenophene-incorporated Y-series acceptors. Journal of Materials Chemistry A, 2021, 9, 24622-24630.	10.3	34
57	Bio-inspired spectropolarimetric sensor based on tandem organic photodetectors and multi-twist liquid crystals. Optics Express, 2021, 29, 43953.	3.4	2
58	Simultaneous Measurement of Glass-Transition Temperature and Crystallinity of As-Prepared Polymeric Films from Restitution. Macromolecules, 2021, 54, 9532-9541.	4.8	5
59	Ultraâ€Low Pt Loaded Porous Carbon Microparticles with Controlled Channel Structure for Highâ€Performance Fuel Cell Catalysts. Advanced Energy Materials, 2021, 11, 2102970.	19.5	29
60	Donorâ€“Acceptor Alternating Copolymer Compatibilizers for Thermally Stable, Mechanically Robust, and High-Performance Organic Solar Cells. ACS Nano, 2021, 15, 19970-19980.	14.6	38
61	Eco-compatible and highly efficient organic solar cells with an aggregation-controlled terpolymer strategy. Journal of Materials Chemistry A, 2021, 9, 27551-27559.	10.3	6
62	Light-Active, Reversibly Shape-Shifting Block Copolymer Particles Using Photo-switchable Au Nanoparticle Surfactants. Chemistry of Materials, 2021, 33, 9769-9779.	6.7	14
63	Origin of the High Donorâ€“Acceptor Composition Tolerance in Device Performance and Mechanical Robustness of All-Polymer Solar Cells. Chemistry of Materials, 2020, 32, 582-594.	6.7	68
64	Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. Sensors, 2020, 20, 130.	3.8	84
65	High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide. High Performance Polymers, 2020, 32, 569-587.	1.8	5
66	Spring-loaded inverted pendulum modeling improves neural network estimation of ground reaction forces. Journal of Biomechanics, 2020, 113, 110069.	2.1	8
67	Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3304-3313.	17.4	59
68	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. Journal of Molecular Structure, 2020, 1221, 128882.	3.6	4
69	Highly durable fuel cell catalysts using crosslinkable block copolymer-based carbon supports with ultralow Pt loadings. Energy and Environmental Science, 2020, 13, 4921-4929.	30.8	61
70	Fluorescent Polymer-MoS₂-Embedded Microgels for Photothermal Heating and Colorimetric Monitoring. ACS Applied Materials & Interfaces, 2020, 12, 35415-35423.	8.0	13
71	Interfacial Instability-Driven Morphological Transition of Prolate Block Copolymer Particles: Striped Football, Larva to Sphere. Macromolecules, 2020, 53, 7198-7206.	4.8	24
72	Entropy-Driven Assembly of Nanoparticles within Emulsion-Evaporative Block Copolymer Particles: Crusted, Seeded, and Alternate-Layered Onions. Chemistry of Materials, 2020, 32, 7036-7043.	6.7	26

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73	Hydrogen Sensors Based on MoS₂ Hollow Architectures Assembled by Pickering Emulsion. ACS Nano, 2020, 14, 9652-9661.	14.6	47
74	Softness- and Size-Dependent Packing Symmetries of Polymer-Grafted Nanoparticles. ACS Nano, 2020, 14, 9644-9651.	14.6	40
75	Developement of highly efficient large area organic photovoltaic module: Effects of nonfullerene acceptor. Nano Energy, 2020, 77, 105147.	16.0	22
76	C₇₀-based aqueous-soluble fullerene for the water composition-tolerant performance of eco-friendly polymer solar cells. Journal of Materials Chemistry C, 2020, 8, 15224-15233.	5.5	11
77	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. ACS Nano, 2020, 14, 14493-14527.	14.6	150
78	Terminal alkyl substitution in an Aâ€“Dâ€“A-type nonfullerene acceptor: simultaneous improvements in the open-circuit voltage and short-circuit current for efficient indoor power generation. Journal of Materials Chemistry A, 2020, 8, 23894-23905.	10.3	18
79	Metal Halide Regulated Photophysical Tuning of Zeroâ€Dimensional Organic Metal Halide Hybrids: From Efficient Phosphorescence to Ultralong Afterglow. Angewandte Chemie - International Edition, 2020, 59, 23067-23071.	13.8	120
80	Metal Halide Regulated Photophysical Tuning of Zeroâ€Dimensional Organic Metal Halide Hybrids: From Efficient Phosphorescence to Ultralong Afterglow. Angewandte Chemie, 2020, 132, 23267-23271.	2.0	27
81	Importance of Optimal Crystallinity and Hole Mobility of BDTâ€Based Polymer Donor for Simultaneous Enhancements of V_{oc}, J_{sc}, and FF in Efficient Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2005787.	14.9	55
82	Impact of Chlorination Patterns of Naphthalenediimide-Based Polymers on Aggregated Structure, Crystallinity, and Device Performance of All-Polymer Solar Cells and Organic Transistors. ACS Applied Materials & Interfaces, 2020, 12, 56240-56250.	8.0	29
83	Switchable Full-Color Reflective Photonic Ellipsoidal Particles. Journal of the American Chemical Society, 2020, 142, 10424-10430.	13.7	85
84	Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 13049-13058.	10.3	41
85	Naphthalene Diimide-Based Terpolymers with Controlled Crystalline Properties for Producing High Electron Mobility and Optimal Blend Morphology in All-Polymer Solar Cells. Chemistry of Materials, 2020, 32, 2572-2582.	6.7	64
86	Triad-type, multi-functional compatibilizers for enhancing efficiency, stability and mechanical robustness of polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 13522-13531.	10.3	16
87	100th Anniversary of Macromolecular Science Viewpoint: Block Copolymer Particles: Tuning Shape, Interfaces, and Morphology. ACS Macro Letters, 2020, 9, 306-317.	4.8	118
88	Importance of device structure and interlayer design in storage stability of naphthalene diimide-based all-polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 3735-3745.	10.3	12
89	Effect of Polymeric In Situ Stabilizers on Dispersion Homogeneity of Nanofillers and Thermal Conductivity Enhancement of Composites. Langmuir, 2020, 36, 5563-5570.	3.5	9
90	Stabilization of complex morphologies in highly disperse AB diblock copolymers. Polymer, 2020, 198, 122519.	3.8	2

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91	Elucidating Roles of Polymer Donor Aggregation in All-Polymer and Non-Fullerene Small-Moleculeâ€“Polymer Solar Cells. Chemistry of Materials, 2020, 32, 3585-3596.	6.7	38
92	Chain-Length-Dependent Self-Assembly Behaviors of Discrete Conjugated Oligo(3-hexylthiophene). Chemistry of Materials, 2020, 32, 3597-3607.	6.7	29
93	Rapid solvo-microwave annealing for optimizing ordered nanostructures and crystallization of regioregular polythiophene-based block copolymers. Polymer Chemistry, 2019, 10, 4962-4972.	3.9	6
94	Light-Responsive, Shape-Switchable Block Copolymer Particles. Journal of the American Chemical Society, 2019, 141, 15348-15355.	13.7	90
95	Regioregularity controlled phase behavior for Poly(3-hexylthiophene): A combined study of simple coarse-grained simulation and experiment. Polymer, 2019, 178, 121569.	3.8	1
96	Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. Chemistry of Materials, 2019, 31, 5264-5273.	6.7	40
97	Regioregular-block-Regiorandom Poly(3-hexylthiophene) Copolymers for Mechanically Robust and High-Performance Thin-Film Transistors. Macromolecules, 2019, 52, 7721-7730.	4.8	40
98	Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 45038-45047.	8.0	42
99	Impact of Incorporating Nitrogen Atoms in Naphthalenediimide-Based Polymer Acceptors on the Charge Generation, Device Performance, and Stability of All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 35896-35903.	8.0	26
100	Influence of Acceptor Type and Polymer Molecular Weight on the Mechanical Properties of Polymer Solar Cells. Chemistry of Materials, 2019, 31, 9057-9069.	6.7	102
101	Synthesis and crystallization behavior of regioregular-block-regiorandom poly(3-hexylthiophene) copolymers. Polymer Chemistry, 2019, 10, 3030-3039.	3.9	13
102	Shape-Anisotropic Diblock Copolymer Particles from Evaporative Emulsions: Experiment and Theory. Macromolecules, 2019, 52, 1150-1157.	4.8	61
103	Influence of backbone modification of difluoroquinoxaline-based copolymers on the interchain packing, blend morphology and photovoltaic properties of nonfullerene organic solar cells. Journal of Materials Chemistry C, 2019, 7, 1681-1689.	5.5	25
104	Recent Advances, Design Guidelines, and Prospects of All-Polymer Solar Cells. Chemical Reviews, 2019, 119, 8028-8086.	47.7	566
105	Dual Imide-Functionalized Unit-Based Regioregular Dâ€“A1â€“Dâ€“A2 Polymers for Efficient Unipolar n-Channel Organic Transistors and All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 22583-22594.	8.0	35
106	Confined, Templated, and Break-Through Crystallization Modes in Poly(3-dodecylthiophene)-block-poly(ethyl methacrylate) Block Copolymers. Macromolecules, 2019, 52, 4475-4482.	4.8	14
107	Importance of Critical Molecular Weight of Semicrystalline n-Type Polymers for Mechanically Robust, Efficient Electroactive Thin Films. Chemistry of Materials, 2019, 31, 3163-3173.	6.7	115
108	Shape and Color Switchable Block Copolymer Particles by Temperature and pH Dual Responses. ACS Nano, 2019, 13, 4230-4237.	14.6	76

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109	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. Polymer Chemistry, 2019, 10, 2415-2423.	3.9	24
110	Bench-Scale Synthesis and Characterization of Biodegradable Aliphaticâ€“Aromatic Random Copolymers with 1,4-Cyclohexanedimethanol Units Toward Sustainable Packaging Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 4734-4743.	6.7	16
111	Development of Shape-Tuned, Monodisperse Block Copolymer Particles through Solvent-Mediated Particle Restructuring. Chemistry of Materials, 2019, 31, 1066-1074.	6.7	51
112	Synergistic Effects of Terpolymer Regioregularity on the Performance of All-Polymer Solar Cells. Macromolecules, 2019, 52, 738-746.	4.8	17
113	Regioisomeric wide-band-gap polymers with different fluorine topologies for non-fullerene organic solar cells. Polymer Chemistry, 2019, 10, 395-402.	3.9	22
114	Microcapsules Containing pH-Responsive, Fluorescent Polymer-Integrated MoS₂: An Effective Platform for in Situ pH Sensing and Photothermal Heating. ACS Applied Materials & Interfaces, 2018, 10, 9023-9031.	8.0	50
115	Comparative Study of the Mechanical Properties of All-Polymer and Fullereneâ€“Polymer Solar Cells: The Importance of Polymer Acceptors for High Fracture Resistance. Chemistry of Materials, 2018, 30, 2102-2111.	6.7	79
116	Mechanically robust and high-performance ternary solar cells combining the merits of all-polymer and fullerene blends. Journal of Materials Chemistry A, 2018, 6, 4494-4503.	10.3	54
117	One-step fermentative production of aromatic polyesters from glucose by metabolically engineered Escherichia coli strains. Nature Communications, 2018, 9, 79.	12.8	84
118	Efficient Approach for Improving the Performance of Nonhalogenated Green Solvent-Processed Polymer Solar Cells via Ternary-Blend Strategy. ACS Applied Materials & Interfaces, 2018, 10, 13748-13756.	8.0	23
119	High-performance, recyclable ultrafiltration membranes from P4VP-assisted dispersion of flame-resistive boron nitride nanotubes. Journal of Membrane Science, 2018, 551, 172-179.	8.2	38
120	Design of Cyanovinyleneâ€Containing Polymer Acceptors with Large Dipole Moment Change for Efficient Charge Generation in Highâ€Performance Allâ€Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1701436.	19.5	70
121	Semiconducting Copolymers Based on mesoâ€Substituted BODIPY for Inverted Organic Solar Cells and Fieldâ€Effect Transistors. Advanced Electronic Materials, 2018, 4, 1700354.	5.1	18
122	A High Dielectric Nâ€Type Small Molecular Acceptor Containing Oligoethyleneglycol Sideâ€Chains for Organic Solar Cells. Chinese Journal of Chemistry, 2018, 36, 199-205.	4.9	22
123	Effect of the acceptor types on the fracture behavior of polymer solar cells. , 2018, , .		0
124	Crystallization Modes of Poly(3-dodecylthiophene)-Based Block Copolymers Depend on Regioregularity and Morphology. Macromolecules, 2018, 51, 9276-9283.	4.8	14
125	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). Advanced Energy Materials, 2018, 8, 1870149.	19.5	1
126	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). Advanced Energy Materials, 2018, 8, 1870132.	19.5	2

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127	Organic Electronics: Semiconducting Copolymers Based on meso -Substituted BODIPY for Inverted Organic Solar Cells and Field-Effect Transistors (Adv. Electron. Mater. 10/2018). Advanced Electronic Materials, 2018, 4, 1870049.	5.1	1
128	Efficient and Airâ€Stable Aqueousâ€Processed Organic Solar Cells and Transistors: Impact of Water Addition on Processability and Thinâ€Film Morphologies of Electroactive Materials. Advanced Energy Materials, 2018, 8, 1802674.	19.5	52
129	Modulating Regioregularity of Poly(3-hexylthiophene)-based Amphiphilic Block Copolymers To Control Solution Assembly from Nanowires to Micelles. Chemistry of Materials, 2018, 30, 7912-7921.	6.7	20
130	Ionic Liquid-Carbon Nanotube Sensor Arrays for Human Breath Related Volatile Organic Compounds. ACS Sensors, 2018, 3, 2432-2437.	7.8	63
131	Mechanistic Study on the Shape Transition of Block Copolymer Particles Driven by Length-Controlled Nanorod Surfactants. Chemistry of Materials, 2018, 30, 8669-8678.	6.7	36
132	Impact of Terminal End-Group of Acceptorâ€“Donorâ€“Acceptor-type Small Molecules on Molecular Packing and Photovoltaic Properties. ACS Applied Materials & Interfaces, 2018, 10, 39952-39961.	8.0	17
133	Sequentially Fluorinated PTAA Polymers for Enhancing V_{OC} of Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1801668.	19.5	151
134	Lowâ€Temperature Processable Highâ€Performance Dâ€“Aâ€Type Random Copolymers for Nonfullerene Polymer Solar Cells and Application to Flexible Devices. Advanced Energy Materials, 2018, 8, 1801601.	19.5	31
135	Domain Structures of Poly(3-dodecylthiophene)-Based Block Copolymers Depend on Regioregularity. Macromolecules, 2018, 51, 4077-4084.	4.8	17
136	Shift of the Branching Point of the Sideâ€Chain in Naphthalenediimide (NDI)â€Based Polymer for Enhanced Electron Mobility and Allâ€Polymer Solar Cell Performance. Advanced Functional Materials, 2018, 28, 1803613.	14.9	74
137	Aspect Ratio-Controlled Synthesis of Uniform Colloidal Block Copolymer Ellipsoids from Evaporative Emulsions. Chemistry of Materials, 2018, 30, 6277-6288.	6.7	47
138	Aqueous Soluble Fullerene Acceptors for Efficient Eco-Friendly Polymer Solar Cells Processed from Benign Ethanol/Water Mixtures. Chemistry of Materials, 2018, 30, 5663-5672.	6.7	34
139	Multidimensional Design of Anisotropic Polymer Particles from Solventâ€Evaporative Emulsion. Advanced Functional Materials, 2018, 28, 1802961.	14.9	140
140	Morphological Stability in Bulk Heterojunction Polymer Solar Cells. Materials and Energy, 2018, , 165-208.	0.1	0
141	Photothermal Imaging: Fluorescent Block Copolymerâ€MoS₂ Nanocomposites for Realâ€Time Photothermal Heating and Imaging (Adv. Funct. Mater. 5/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
142	Morphological Evolution of Block Copolymer Particles: Effect of Solvent Evaporation Rate on Particle Shape and Morphology. ACS Nano, 2017, 11, 2133-2142.	14.6	123
143	Regioregularity-Driven Morphological Transition of Poly(3-hexylthiophene)-Based Block Copolymers. Macromolecules, 2017, 50, 1902-1908.	4.8	34
144	Synthesis and side-chain engineering of phenylnaphthalenediimide (PNDI)-based n-type polymers for efficient all-polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 5449-5459.	10.3	29

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145	Highâ€Performance Longâ€Termâ€Stable Dopantâ€Free Perovskite Solar Cells and Additiveâ€Free Organic Solar Cells by Employing Newly Designed Multirole Ï€â€Conjugated Polymers. Advanced Materials, 2017, 29, 1700183.	21.0	141
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