Bumjoon J Kim

List of Publications by Year
in descending order

288	18,184	11608	19136
papers	citations	70 h-index	118 g-index

294	294	294	12718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible, highly efficient all-polymer solar cells. Nature Communications, 2015, 6, 8547.	5.8	740
2	Recent Advances, Design Guidelines, and Prospects of All-Polymer Solar Cells. Chemical Reviews, 2019, 119, 8028-8086.	23.0	566
3	Control of Nanoparticle Location in Block Copolymers. Journal of the American Chemical Society, 2005, 127, 5036-5037.	6.6	550
4	From Fullereneâ€“Polymer to All-Polymer Solar Cells: The Importance of Molecular Packing, Orientation, and Morphology Control. Accounts of Chemical Research, 2016, 49, 2424-2434.	7.6	407
5	The Influence of Poly(3-hexylthiophene) Regioregularity on Fullerene-Composite Solar Cell Performance. Journal of the American Chemical Society, 2008, 130, 16324-16329.	6.6	394
6	Determining the Role of Polymer Molecular Weight for High-Performance All-Polymer Solar Cells: Its Effect on Polymer Aggregation and Phase Separation. Journal of the American Chemical Society, 2015, 137, 2359-2365.	6.6	347
7	Effect of Areal Chain Density on the Location of Polymer-Modified Gold Nanoparticles in a Block Copolymer Template. Macromolecules, 2006, 39, 4108-4114.	2.2	293
8	Elastomeric electrolytes for high-energy solid-state lithium batteries. Nature, 2022, 601, 217-222.	13.7	290
9	Highâ€Performance Allâ€Polymer Solar Cells Via Sideâ€Chain Engineering of the Polymer Acceptor: The Importance of the Polymer Packing Structure and the Nanoscale Blend Morphology. Advanced Materials, 2015, 27, 2466-2471.	11.1	279
10	Photocrosslinkable Polythiophenes for Efficient, Thermally Stable, Organic Photovoltaics. Advanced Functional Materials, 2009, 19, 2273-2281.	7.8	255
11	Nanoparticle-Induced Phase Transitions in Diblock-Copolymer Films. Advanced Materials, 2005, 17, 2618-2622.	11.1	225
12	Striped, Ellipsoidal Particles by Controlled Assembly of Diblock Copolymers. Journal of the American Chemical Society, 2013, 135, 6649-6657.	6.6	220
13	Hybrid Particle-Field Simulations of Polymer Nanocomposites. Physical Review Letters, 2006, 96, 250601.	2.9	219
14	Tuning Mechanical and Optoelectrical Properties of Poly(3-hexylthiophene) through Systematic Regioregularity Control. Macromolecules, 2015, 48, 4339-4346.	2.2	194
15	Creating Surfactant Nanoparticles for Block Copolymer Composites through Surface Chemistry. Langmuir, 2007, 23, 12693-12703.	1.6	182
16	Effect of Addition of a Diblock Copolymer on Blend Morphology and Performance of Poly(3-hexylthiophene):Perylene Diimide Solar Cells. Chemistry of Materials, 2009, 21, 1775-1777.	3.2	171
17	Effects of Solubilizing Group Modification in Fullerene Bis-Adducts on Normal and Inverted Type Polymer Solar Cells. Chemistry of Materials, 2012, 24, 2373-2381.	3.2	166
18	Nanoparticle Surfactants as a Route to Bicontinuous Block Copolymer Morphologies. Langmuir, 2007, 23, 7804-7809.	1.6	160

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19	Efficient Colorimetric pH Sensor Based on Responsive Polymerâ€“Quantum Dot Integrated Graphene Oxide. ACS Nano, 2014, 8, 2848-2856.	7.3	158
20	Design of terpolymers as electron donors for highly efficient polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 15252.	5.2	155
21	Side Chain Optimization of Naphthalenediimideâ€“Bithiopheneâ€Based Polymers to Enhance the Electron Mobility and the Performance in Allâ€Polymer Solar Cells. Advanced Functional Materials, 2016, 26, 1543-1553.	7.8	155
22	Solvent-Resistant Organic Transistors and Thermally Stable Organic Photovoltaics Based on Cross-linkable Conjugated Polymers. Chemistry of Materials, 2012, 24, 215-221.	3.2	154
23	Controlling Molecular Orientation of Naphthalenediimideâ€Based Polymer Acceptors for High Performance Allâ€Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600504.	10.2	152
24	Sequentially Fluorinated PTAA Polymers for Enhancing V_{OC} of Highâ€Performance Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1801668.	10.2	151
25	Regioregular Narrowâ€Bandgap nâ€Type Polymers with High Electron Mobility Enabling Highly Efficient Allâ€Polymer Solar Cells. Advanced Materials, 2021, 33, e2102635.	11.1	151
26	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. ACS Nano, 2020, 14, 14493-14527.	7.3	150
27	Distribution of Nanoparticles in Lamellar Domains of Block Copolymers. Macromolecules, 2007, 40, 3361-3365.	2.2	145
28	Highâ€Performance Longâ€Termâ€Stable Dopantâ€Free Perovskite Solar Cells and Additiveâ€Free Organic Solar Cells by Employing Newly Designed Multirole Ïâ€Conjugated Polymers. Advanced Materials, 2017, 29, 1700183.	11.1	141
29	Multidimensional Design of Anisotropic Polymer Particles from Solventâ€Evaporative Emulsion. Advanced Functional Materials, 2018, 28, 1802961.	7.8	140
30	Importance of Optimal Composition in Random Terpolymer-Based Polymer Solar Cells. Macromolecules, 2013, 46, 6806-6813.	2.2	137
31	Size-Controlled Nanoparticle-Guided Assembly of Block Copolymers for Convex Lens-Shaped Particles. Journal of the American Chemical Society, 2014, 136, 9982-9989.	6.6	132
32	Importance of Electron Transport Ability in Naphthalene Diimide-Based Polymer Acceptors for High-Performance, Additive-Free, All-Polymer Solar Cells. Chemistry of Materials, 2015, 27, 5230-5237.	3.2	131
33	Determining Optimal Crystallinity of Diketopyrrolopyrrole-Based Terpolymers for Highly Efficient Polymer Solar Cells and Transistors. Chemistry of Materials, 2014, 26, 6963-6970.	3.2	130
34	Site Isolation in Phosphorescent Bichromophoric Block Copolymers Designed for White Electroluminescence. Advanced Materials, 2010, 22, 77-82.	11.1	129
35	Effect of Polymer Ligand Molecular Weight on Polymer-Coated Nanoparticle Location in Block Copolymers. Macromolecules, 2008, 41, 436-447.	2.2	124
36	Morphological Evolution of Block Copolymer Particles: Effect of Solvent Evaporation Rate on Particle Shape and Morphology. ACS Nano, 2017, 11, 2133-2142.	7.3	123

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37	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.	10.2	122
38	New Thermally Cross-Linkable Polymer and Its Application as a Hole-Transporting Layer for Solution Processed Multilayer Organic Light Emitting Diodes. Chemistry of Materials, 2007, 19, 4827-4832.	3.2	121
39	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.	7.2	120
40	Comparative Study of Thermal Stability, Morphology, and Performance of All-Polymer, Fullereneâ€“Polymer, and Ternary Blend Solar Cells Based on the Same Polymer Donor. Macromolecules, 2017, 50, 6861-6871.	2.2	118
41	100th Anniversary of Macromolecular Science Viewpoint: Block Copolymer Particles: Tuning Shape, Interfaces, and Morphology. ACS Macro Letters, 2020, 9, 306-317.	2.3	118
42	Importance of Critical Molecular Weight of Semicrystalline n-Type Polymers for Mechanically Robust, Efficient Electroactive Thin Films. Chemistry of Materials, 2019, 31, 3163-3173.	3.2	115
43	Sideâ€Chain Fluorination: An Effective Approach to Achieving Highâ€Performance Allâ€Polymer Solar Cells with Efficiency Exceeding 7%. Advanced Materials, 2016, 28, 10016-10023.	11.1	108
44	Effect of Humidity on the Ordering of PEO-Based Copolymer Thin Films. Macromolecules, 2007, 40, 7019-7025.	2.2	106
45	High-Performance All-Polymer Solar Cells Based on Face-On Stacked Polymer Blends with Low Interfacial Tension. ACS Macro Letters, 2014, 3, 1009-1014.	2.3	106
46	Facile Synthesis ofo-Xylenyl Fullerene Multiadducts for High Open Circuit Voltage and Efficient Polymer Solar Cells. Chemistry of Materials, 2011, 23, 5090-5095.	3.2	104
47	Influence of Acceptor Type and Polymer Molecular Weight on the Mechanical Properties of Polymer Solar Cells. Chemistry of Materials, 2019, 31, 9057-9069.	3.2	102
48	Achieving highly efficient all-polymer solar cells by green-solvent-processing under ambient atmosphere. Energy and Environmental Science, 0, , .	15.6	102
49	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.	15.6	98
50	Influence of Alkyl Substitution Pattern in Thiophene Copolymers on Composite Fullerene Solar Cell Performance. Macromolecules, 2007, 40, 7425-7428.	2.2	97
51	Correlation between Phase-Separated Domain Sizes of Active Layer and Photovoltaic Performances in All-Polymer Solar Cells. Macromolecules, 2016, 49, 5051-5058.	2.2	93
52	Particles with Tunable Porosity and Morphology by Controlling Interfacial Instability in Block Copolymer Emulsions. ACS Nano, 2016, 10, 5243-5251.	7.3	92
53	Soft Patchy Particles of Block Copolymers from Interface-Engineered Emulsions. ACS Nano, 2015, 9, 11333-11341.	7.3	91
54	Light-Responsive, Shape-Switchable Block Copolymer Particles. Journal of the American Chemical Society, 2019, 141, 15348-15355.	6.6	90

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55	Controlling Number of Indene Solubilizing Groups in Multiadduct Fullerenes for Tuning Optoelectronic Properties and Open-Circuit Voltage in Organic Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 110-116.	4.0	89
56	Polymer Acceptors with Flexible Spacers Afford Efficient and Mechanically Robust Allâ€Polymer Solar Cells. Advanced Materials, 2022, 34, e2107361.	11.1	89
57	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. Journal of Materials Chemistry A, 2013, 1, 14538.	5.2	86
58	Switchable Full-Color Reflective Photonic Ellipsoidal Particles. Journal of the American Chemical Society, 2020, 142, 10424-10430.	6.6	85
59	One-step fermentative production of aromatic polyesters from glucose by metabolically engineered Escherichia coli strains. Nature Communications, 2018, 9, 79.	5.8	84
60	Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. Sensors, 2020, 20, 130.	2.1	84
61	Architectural Engineering of Rodâ€“Coil Compatibilizers for Producing Mechanically and Thermally Stable Polymer Solar Cells. ACS Nano, 2014, 8, 10461-10470.	7.3	82
62	Shape-Tunable Biphasic Janus Particles as pH-Responsive Switchable Surfactants. Macromolecules, 2017, 50, 9276-9285.	2.2	80
63	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.	3.2	79
64	A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anodeâ€Free Sodiumâ€Metal Batteries. Advanced Materials, 2022, 34, e2109767.	11.1	79
65	Free-Standing Nanocomposite Multilayers with Various Length Scales, Adjustable Internal Structures, and Functionalities. Journal of the American Chemical Society, 2009, 131, 2579-2587.	6.6	77
66	Fluorescent and pH-responsive diblock copolymer-coated coreâ€“shell CdSe/ZnS particles for a color-displaying, ratiometric pH sensor. Chemical Communications, 2011, 47, 10272.	2.2	76
67	Precise Control of Quantum Dot Location within the P3HT-b-P2VP/QD Nanowires Formed by Crystallization-Driven 1D Growth of Hybrid Dimeric Seeds. Journal of the American Chemical Society, 2014, 136, 2767-2774.	6.6	76
68	Surface Engineering of Graphene Quantum Dots and Their Applications as Efficient Surfactants. ACS Applied Materials & Interfaces, 2015, 7, 8615-8621.	4.0	76
69	Shape and Color Switchable Block Copolymer Particles by Temperature and pH Dual Responses. ACS Nano, 2019, 13, 4230-4237.	7.3	76
70	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.	7.8	74
71	Controlled Ordering of Block Copolymer Thin Films by the Addition of Hydrophilic Nanoparticles. Macromolecules, 2007, 40, 8119-8124.	2.2	73
72	Multifunctional Crosslinkable Iridium Complexes as Hole Transporting/Electron Blocking and Emitting Materials for Solutionâ€Processed Multilayer Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2009, 19, 1024-1031.	7.8	73

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73	Gold-Decorated Block Copolymer Microspheres with Controlled Surface Nanostructures. ACS Nano, 2012, 6, 2750-2757.	7.3	72
74	Facile Au catalyst loading on the inner shell of hollow SnO₂spheres using Au-decorated block copolymer sphere templates and their selective H₂S sensing characteristics. Nanoscale, 2014, 6, 11898-11903.	2.8	72
75	Monodipserse Nanostructured Spheres of Block Copolymers and Nanoparticles via Cross-Flow Membrane Emulsification. Chemistry of Materials, 2015, 27, 6314-6321.	3.2	72
76	Facile Synthesis of Thermally Stable Coreâ"Shell Gold Nanoparticles via Photo-Cross-Linkable Polymeric Ligands. Macromolecules, 2010, 43, 3570-3575.	2.2	71
77	Au@Polymer Coreâ€"Shell Nanoparticles for Simultaneously Enhancing Efficiency and Ambient Stability of Organic Optoelectronic Devices. ACS Applied Materials & Interfaces, 2014, 6, 16956-16965.	4.0	71
78	Engineering the Shape of Block Copolymer Particles by Surface-Modulated Graphene Quantum Dots. Chemistry of Materials, 2016, 28, 830-837.	3.2	71
79	Impact of the photo-induced degradation of electron acceptors on the photophysics, charge transport and device performance of all-polymer and fullereneâ€"polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 22170-22179.	5.2	71
80	Stimuliâ€Responsive, Shapeâ€Transforming Nanostructured Particles. Advanced Materials, 2017, 29, 1700608.	11.1	71
81	Proximity Injection of Plasticizing Molecules to Self-Assembling Polymers for Large-Area, Ultrafast Nanopatterning in the Sub-10-nm Regime. ACS Nano, 2013, 7, 6747-6757.	7.3	70
82	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.	10.2	70
83	Effect of Fullerene Tris-adducts on the Photovoltaic Performance of P3HT:Fullerene Ternary Blends. ACS Applied Materials & Interfaces, 2013, 5, 4401-4408.	4.0	69
84	Intrinsically Stretchable Organic Solar Cells with Efficiencies of over 11%. ACS Energy Letters, 2021, 6, 2512-2518.	8.8	69
85	Bipolar Copolymers as Host for Electroluminescent Devices:Â Effects of Molecular Structure on Film Morphology and Device Performance. Macromolecules, 2007, 40, 8156-8161.	2.2	68
86	Facile Photoâ€Crosslinking of Azideâ€Containing Holeâ€Transporting Polymers for Highly Efficient, Solutionâ€Processed, Multilayer Organic Light Emitting Devices. Advanced Functional Materials, 2014, 24, 7588-7596.	7.8	68
87	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.	3.2	68
88	Multicolor Emitting Block Copolymer-Integrated Graphene Quantum Dots for Colorimetric, Simultaneous Sensing of Temperature, pH, and Metal Ions. Chemistry of Materials, 2015, 27, 5288-5294.	3.2	67
89	Importance of 2D Conjugated Side Chains of Benzodithiophene-Based Polymers in Controlling Polymer Packing, Interfacial Ordering, and Composition Variations of All-Polymer Solar Cells. Chemistry of Materials, 2017, 29, 9407-9415.	3.2	67
90	Material Design and Device Fabrication Strategies for Stretchable Organic Solar Cells. Advanced Materials, 2022, 34, .	11.1	67

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91	Size-Controlled Polymer-Coated Nanoparticles as Efficient Compatibilizers for Polymer Blends. Macromolecules, 2011, 44, 9852-9862.	2.2	66
92	Novel Templating Route Using Pt Infiltrated Block Copolymer Microparticles for Catalytic Pt Functionalized Macroporous WO₃ Nanofibers and Its Application in Breath Pattern Recognition. ACS Sensors, 2016, 1, 1124-1131.	4.0	66
93	Controlling Energy Levels and Blend Morphology for All-Polymer Solar Cells via Fluorination of a Naphthalene Diimide-Based Copolymer Acceptor. Macromolecules, 2016, 49, 6374-6383.	2.2	66
94	Highly Efficient and Stable Perovskite Solar Cells Enabled by Lowâ€Cost Industrial Organic Pigment Coating. Angewandte Chemie - International Edition, 2021, 60, 2485-2492.	7.2	66
95	Multicolor Emission of Hybrid Block Copolymerâ€“Quantum Dot Microspheres by Controlled Spatial Isolation of Quantum Dots. Small, 2013, 9, 2667-2672.	5.2	65
96	High-Crystalline Medium-Band-Gap Polymers Consisting of Benzodithiophene and Benzotriazole Derivatives for Organic Photovoltaic Cells. ACS Applied Materials & Interfaces, 2013, 5, 12820-12831.	4.0	64
97	Freestanding and Arrayed Nanoporous Microcylinders for Highly Active 3D SERS Substrate. Chemistry of Materials, 2013, 25, 2421-2426.	3.2	64
98	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.	3.2	64
99	Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. Macromolecules, 2017, 50, 4415-4424.	2.2	63
100	Ionic Liquid-Carbon Nanotube Sensor Arrays for Human Breath Related Volatile Organic Compounds. ACS Sensors, 2018, 3, 2432-2437.	4.0	63
101	Shape-Anisotropic Diblock Copolymer Particles from Evaporative Emulsions: Experiment and Theory. Macromolecules, 2019, 52, 1150-1157.	2.2	61
102	Highly durable fuel cell catalysts using crosslinkable block copolymer-based carbon supports with ultralow Pt loadings. Energy and Environmental Science, 2020, 13, 4921-4929.	15.6	61
103	Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3304-3313.	8.8	59
104	Importance of End-Group Structure in Controlling the Interfacial Activity of Polymer-Coated Nanoparticles. Macromolecules, 2007, 40, 1796-1798.	2.2	58
105	Tailoring Coreâ^'Shell Polymer-Coated Nanoparticles as Block Copolymer Surfactants. Macromolecules, 2009, 42, 6193-6201.	2.2	58
106	Photoinduced Charge Transfer in Donorâ€“Acceptor (DA) Copolymer: Fullerene Bis-adduct Polymer Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 861-868.	4.0	58
107	Controlling the Orientation of Block Copolymer Thin Films using Thermally-Stable Gold Nanoparticles with Tuned Surface Chemistry. Macromolecules, 2011, 44, 9356-9365.	2.2	57
108	Highly Sensitive and Selective Liquidâ€Phase Sensors Based on a Solventâ€Resistant Organicâ€Transistor Platform. Advanced Materials, 2015, 27, 1540-1546.	11.1	57

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109	The Impact of Sequential Fluorination of Ï€â€Conjugated Polymers on Charge Generation in Allâ€Polymer Solar Cells. Advanced Functional Materials, 2017, 27, 1701256.	7.8	55
110	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.	7.8	55
111	Photoswitchable Surfactant-Driven Reversible Shape- and Color-Changing Block Copolymer Particles. Journal of the American Chemical Society, 2021, 143, 13333-13341.	6.6	55
112	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.	5.2	54
113	Cyanoâ€Functionalized nâ€Type Polymer with High Electron Mobility for Highâ€Performance Organic Electrochemical Transistors. Advanced Materials, 2022, 34, e2201340.	11.1	54
114	Interfacial Roughening Induced by the Reaction of End-Functionalized Polymers at a PS/P2VP Interface:Â Quantitative Analysis by DSIMS. Macromolecules, 2005, 38, 6106-6114.	2.2	53
115	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.	10.2	52
116	Effect of Incorporated Nitrogens on the Planarity and Photovoltaic Performance of Donorâ€“Acceptor Copolymers. Macromolecules, 2012, 45, 6415-6423.	2.2	51
117	Colorimetric Thermometer from Graphene Oxide Platform Integrated with Red, Green, and Blue Emitting, Responsive Block Copolymers. Chemistry of Materials, 2016, 28, 3446-3453.	3.2	51
118	Development of Shape-Tuned, Monodisperse Block Copolymer Particles through Solvent-Mediated Particle Restructuring. Chemistry of Materials, 2019, 31, 1066-1074.	3.2	51
119	Mantis shrimpâ€“inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. Science Advances, 2021, 7, .	4.7	51
120	The effect of side-chain length on regioregular poly[3-(4-n-alkyl)phenylthiophene]/PCBM and ICBA polymer solar cells. Journal of Materials Chemistry, 2012, 22, 14236.	6.7	50
121	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.	4.0	50
122	Hierarchically Structured Colloids of Diblock Copolymers and Au Nanoparticles. Chemistry of Materials, 2009, 21, 3739-3741.	3.2	49
123	Synthesis of thermally stable Au-core/Pt-shell nanoparticles and their segregation behavior in diblock copolymer mixtures. Soft Matter, 2011, 7, 6255.	1.2	47
124	Aspect Ratio-Controlled Synthesis of Uniform Colloidal Block Copolymer Ellipsoids from Evaporative Emulsions. Chemistry of Materials, 2018, 30, 6277-6288.	3.2	47
125	Hydrogen Sensors Based on MoS₂ Hollow Architectures Assembled by Pickering Emulsion. ACS Nano, 2020, 14, 9652-9661.	7.3	47
126	Efficient Temperature Sensing Platform Based on Fluorescent Block Copolymer-Functionalized Graphene Oxide. Nanoscale, 2013, 5, 5720.	2.8	46

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127	Side Chain Engineered Naphthalene Diimide-Based Terpolymer for Efficient and Mechanically Robust All-Polymer Solar Cells. Chemistry of Materials, 2021, 33, 1070-1081.	3.2	46
128	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.	10.2	46
129	Highâ€Performance nâ€Type Organic Electrochemical Transistors Enabled by Aqueous Solution Processing of Amphiphilicityâ€Driven Polymer Assembly. Advanced Functional Materials, 2022, 32, 2111950.	7.8	46
130	â€œClickâ€•synthesis of thermally stable au nanoparticles with highly grafted polymer shell and control of their behavior in polymer matrix. Journal of Polymer Science Part A, 2011, 49, 3464-3474.	2.5	45
131	Intrinsicallyâ€Stretchable, Efficient Organic Solar Cells Achieved by Highâ€Molecularâ€Weight, Electroâ€Active Polymer Acceptor Additives. Advanced Energy Materials, 2022, 12, .	10.2	45
132	Controlling side-chain density of electron donating polymers for improving their packing structure and photovoltaic performance. Chemical Communications, 2011, 47, 3577.	2.2	44
133	Bicontinuous Block Copolymer Morphologies Produced by Interfacially Active, Thermally Stable Nanoparticles. Macromolecules, 2011, 44, 9366-9373.	2.2	44
134	Highly Luminescent Polymer Particles Driven by Thermally Reduced Graphene Quantum Dot Surfactants. ACS Macro Letters, 2014, 3, 985-990.	2.3	42
135	Aspect ratio effect of nanorod surfactants on the shape and internal morphology of block copolymer particles. Journal of Polymer Science Part A, 2015, 53, 188-192.	2.5	42
136	Aqueous-Soluble Naphthalene Diimide-Based Polymer Acceptors for Efficient and Air-Stable All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 45038-45047.	4.0	42
137	Poly(benzodithiophene) Homopolymer for High-Performance Polymer Solar Cells with Open-Circuit Voltage of Near 1 V: A Superior Candidate To Substitute for Poly(3-hexylthiophene) as Wide Bandgap Polymer. Chemistry of Materials, 2015, 27, 2653-2658.	3.2	41
138	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.	5.2	41
139	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.	7.8	41
140	Donorâ€“Acceptor Random versus Alternating Copolymers for Efficient Polymer Solar Cells: Importance of Optimal Composition in Random Copolymers. Macromolecules, 2016, 49, 2096-2105.	2.2	40
141	Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. Chemistry of Materials, 2019, 31, 5264-5273.	3.2	40
142	Regioregular-block-Regiorandom Poly(3-hexylthiophene) Copolymers for Mechanically Robust and High-Performance Thin-Film Transistors. Macromolecules, 2019, 52, 7721-7730.	2.2	40
143	Softness- and Size-Dependent Packing Symmetries of Polymer-Grafted Nanoparticles. ACS Nano, 2020, 14, 9644-9651.	7.3	40
144	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.	3.6	40

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145	Asymmetric Electron-Donating 4-Alkyl-8-alkoxybenzo[1,2-b:4,5-bâ€²]dithiophene Unit for Use in High-Efficiency Bulk Heterojunction Polymer Solar Cells. Macromolecules, 2015, 48, 3918-3927.	2.2	39
146	Naphthalene-, Anthracene-, and Pyrene-Substituted Fullerene Derivatives as Electron Acceptors in Polymer-based Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 20776-20785.	4.0	38
147	High-performance, recyclable ultrafiltration membranes from P4VP-assisted dispersion of flame-resistive boron nitride nanotubes. Journal of Membrane Science, 2018, 551, 172-179.	4.1	38
148	Elucidating Roles of Polymer Donor Aggregation in All-Polymer and Non-Fullerene Small-Moleculeâ€“Polymer Solar Cells. Chemistry of Materials, 2020, 32, 3585-3596.	3.2	38
149	Donorâ€“Acceptor Alternating Copolymer Compatibilizers for Thermally Stable, Mechanically Robust, and High-Performance Organic Solar Cells. ACS Nano, 2021, 15, 19970-19980.	7.3	38
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