

Bumjoon J Kim

List of Publications by Year in descending order

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11651

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all docs

294
docs citations

294
times ranked

12718
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible, highly efficient all-polymer solar cells. <i>Nature Communications</i> , 2015, 6, 8547.	12.8	740
2	Recent Advances, Design Guidelines, and Prospects of All-Polymer Solar Cells. <i>Chemical Reviews</i> , 2019, 119, 8028-8086.	47.7	566
3	Control of Nanoparticle Location in Block Copolymers. <i>Journal of the American Chemical Society</i> , 2005, 127, 5036-5037.	13.7	550
4	From Fullerene-Polymer to All-Polymer Solar Cells: The Importance of Molecular Packing, Orientation, and Morphology Control. <i>Accounts of Chemical Research</i> , 2016, 49, 2424-2434.	15.6	407
5	The Influence of Poly(3-hexylthiophene) Regioregularity on Fullerene-Composite Solar Cell Performance. <i>Journal of the American Chemical Society</i> , 2008, 130, 16324-16329.	13.7	394
6	Determining the Role of Polymer Molecular Weight for High-Performance All-Polymer Solar Cells: Its Effect on Polymer Aggregation and Phase Separation. <i>Journal of the American Chemical Society</i> , 2015, 137, 2359-2365.	13.7	347
7	Effect of Areal Chain Density on the Location of Polymer-Modified Gold Nanoparticles in a Block Copolymer Template. <i>Macromolecules</i> , 2006, 39, 4108-4114.	4.8	293
8	Elastomeric electrolytes for high-energy solid-state lithium batteries. <i>Nature</i> , 2022, 601, 217-222.	27.8	290
9	High-Performance All-Polymer Solar Cells Via Side-Chain Engineering of the Polymer Acceptor: The Importance of the Polymer Packing Structure and the Nanoscale Blend Morphology. <i>Advanced Materials</i> , 2015, 27, 2466-2471.	21.0	279
10	Photocrosslinkable Polythiophenes for Efficient, Thermally Stable, Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2009, 19, 2273-2281.	14.9	255
11	Nanoparticle-Induced Phase Transitions in Diblock-Copolymer Films. <i>Advanced Materials</i> , 2005, 17, 2618-2622.	21.0	225
12	Striped, Ellipsoidal Particles by Controlled Assembly of Diblock Copolymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 6649-6657.	13.7	220
13	Hybrid Particle-Field Simulations of Polymer Nanocomposites. <i>Physical Review Letters</i> , 2006, 96, 250601.	7.8	219
14	Tuning Mechanical and Optoelectrical Properties of Poly(3-hexylthiophene) through Systematic Regioregularity Control. <i>Macromolecules</i> , 2015, 48, 4339-4346.	4.8	194
15	Creating Surfactant Nanoparticles for Block Copolymer Composites through Surface Chemistry. <i>Langmuir</i> , 2007, 23, 12693-12703.	3.5	182
16	Effect of Addition of a Diblock Copolymer on Blend Morphology and Performance of Poly(3-hexylthiophene):Perylene Diimide Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 1775-1777.	6.7	171
17	Effects of Solubilizing Group Modification in Fullerene Bis-Adducts on Normal and Inverted Type Polymer Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 2373-2381.	6.7	166
18	Nanoparticle Surfactants as a Route to Bicontinuous Block Copolymer Morphologies. <i>Langmuir</i> , 2007, 23, 7804-7809.	3.5	160

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19	Efficient Colorimetric pH Sensor Based on Responsive Polymer-Quantum Dot Integrated Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 2848-2856.	14.6	158
20	Design of terpolymers as electron donors for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15252.	10.3	155
21	Side Chain Optimization of Naphthalenediimide-Bithiophene-Based Polymers to Enhance the Electron Mobility and the Performance in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 1543-1553.	14.9	155
22	Solvent-Resistant Organic Transistors and Thermally Stable Organic Photovoltaics Based on Cross-linkable Conjugated Polymers. <i>Chemistry of Materials</i> , 2012, 24, 215-221.	6.7	154
23	Controlling Molecular Orientation of Naphthalenediimide-Based Polymer Acceptors for High Performance All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600504.	19.5	152
24	Sequentially Fluorinated PTAA Polymers for Enhancing V_{OC} of High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801668.	19.5	151
25	Regioregular Narrow-Bandgap n-Type Polymers with High Electron Mobility Enabling Highly Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2102635.	21.0	151
26	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. <i>ACS Nano</i> , 2020, 14, 14493-14527.	14.6	150
27	Distribution of Nanoparticles in Lamellar Domains of Block Copolymers. <i>Macromolecules</i> , 2007, 40, 3361-3365.	4.8	145
28	High-Performance Long-Term-Stable Dopant-Free Perovskite Solar Cells and Additive-Free Organic Solar Cells by Employing Newly Designed Multirole Conjugated Polymers. <i>Advanced Materials</i> , 2017, 29, 1700183.	21.0	141
29	Multidimensional Design of Anisotropic Polymer Particles from Solvent-Evaporative Emulsion. <i>Advanced Functional Materials</i> , 2018, 28, 1802961.	14.9	140
30	Importance of Optimal Composition in Random Terpolymer-Based Polymer Solar Cells. <i>Macromolecules</i> , 2013, 46, 6806-6813.	4.8	137
31	Size-Controlled Nanoparticle-Guided Assembly of Block Copolymers for Convex Lens-Shaped Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 9982-9989.	13.7	132
32	Importance of Electron Transport Ability in Naphthalene Diimide-Based Polymer Acceptors for High-Performance, Additive-Free, All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 5230-5237.	6.7	131
33	Determining Optimal Crystallinity of Diketopyrrolopyrrole-Based Terpolymers for Highly Efficient Polymer Solar Cells and Transistors. <i>Chemistry of Materials</i> , 2014, 26, 6963-6970.	6.7	130
34	Site Isolation in Phosphorescent Bichromophoric Block Copolymers Designed for White Electroluminescence. <i>Advanced Materials</i> , 2010, 22, 77-82.	21.0	129
35	Effect of Polymer Ligand Molecular Weight on Polymer-Coated Nanoparticle Location in Block Copolymers. <i>Macromolecules</i> , 2008, 41, 436-447.	4.8	124
36	Morphological Evolution of Block Copolymer Particles: Effect of Solvent Evaporation Rate on Particle Shape and Morphology. <i>ACS Nano</i> , 2017, 11, 2133-2142.	14.6	123

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37	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.	19.5	122
38	New Thermally Cross-Linkable Polymer and Its Application as a Hole-Transporting Layer for Solution Processed Multilayer Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2007, 19, 4827-4832.	6.7	121
39	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.	13.8	120
40	Comparative Study of Thermal Stability, Morphology, and Performance of All-Polymer, Fullerene-Polymer, and Ternary Blend Solar Cells Based on the Same Polymer Donor. <i>Macromolecules</i> , 2017, 50, 6861-6871.	4.8	118
41	100th Anniversary of Macromolecular Science Viewpoint: Block Copolymer Particles: Tuning Shape, Interfaces, and Morphology. <i>ACS Macro Letters</i> , 2020, 9, 306-317.	4.8	118
42	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.	6.7	115
43	Side-Chain Fluorination: An Effective Approach to Achieving High-Performance All-Polymer Solar Cells with Efficiency Exceeding 7%. <i>Advanced Materials</i> , 2016, 28, 10016-10023.	21.0	108
44	Effect of Humidity on the Ordering of PEO-Based Copolymer Thin Films. <i>Macromolecules</i> , 2007, 40, 7019-7025.	4.8	106
45	High-Performance All-Polymer Solar Cells Based on Face-On Stacked Polymer Blends with Low Interfacial Tension. <i>ACS Macro Letters</i> , 2014, 3, 1009-1014.	4.8	106
46	Facile Synthesis of o-Xylenyl Fullerene Multiadducts for High Open Circuit Voltage and Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 5090-5095.	6.7	104
47	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.	6.7	102
48	Achieving highly efficient all-polymer solar cells by green-solvent-processing under ambient atmosphere. <i>Energy and Environmental Science</i> , 0, , .	30.8	102
49	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.	30.8	98
50	Influence of Alkyl Substitution Pattern in Thiophene Copolymers on Composite Fullerene Solar Cell Performance. <i>Macromolecules</i> , 2007, 40, 7425-7428.	4.8	97
51	Correlation between Phase-Separated Domain Sizes of Active Layer and Photovoltaic Performances in All-Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 5051-5058.	4.8	93
52	Particles with Tunable Porosity and Morphology by Controlling Interfacial Instability in Block Copolymer Emulsions. <i>ACS Nano</i> , 2016, 10, 5243-5251.	14.6	92
53	Soft Patchy Particles of Block Copolymers from Interface-Engineered Emulsions. <i>ACS Nano</i> , 2015, 9, 11333-11341.	14.6	91
54	Light-Responsive, Shape-Switchable Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2019, 141, 15348-15355.	13.7	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. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 110-116.	8.0	89
56	Polymer Acceptors with Flexible Spacers Afford Efficient and Mechanically Robust All-Polymer Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2107361.	21.0	89
57	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14538.	10.3	86
58	Switchable Full-Color Reflective Photonic Ellipsoidal Particles. <i>Journal of the American Chemical Society</i> , 2020, 142, 10424-10430.	13.7	85
59	One-step fermentative production of aromatic polyesters from glucose by metabolically engineered <i>Escherichia coli</i> strains. <i>Nature Communications</i> , 2018, 9, 79.	12.8	84
60	Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. <i>Sensors</i> , 2020, 20, 130.	3.8	84
61	Architectural Engineering of Rod-Coil Compatibilizers for Producing Mechanically and Thermally Stable Polymer Solar Cells. <i>ACS Nano</i> , 2014, 8, 10461-10470.	14.6	82
62	Shape-Tunable Biphasic Janus Particles as pH-Responsive Switchable Surfactants. <i>Macromolecules</i> , 2017, 50, 9276-9285.	4.8	80
63	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.	6.7	79
64	A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anode-Free Sodium-Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2109767.	21.0	79
65	Free-Standing Nanocomposite Multilayers with Various Length Scales, Adjustable Internal Structures, and Functionalities. <i>Journal of the American Chemical Society</i> , 2009, 131, 2579-2587.	13.7	77
66	Fluorescent and pH-responsive diblock copolymer-coated core-shell CdSe/ZnS particles for a color-displaying, ratiometric pH sensor. <i>Chemical Communications</i> , 2011, 47, 10272.	4.1	76
67	Precise Control of Quantum Dot Location within the P3HT-P2VP/QD Nanowires Formed by Crystallization-Driven 1D Growth of Hybrid Dimeric Seeds. <i>Journal of the American Chemical Society</i> , 2014, 136, 2767-2774.	13.7	76
68	Surface Engineering of Graphene Quantum Dots and Their Applications as Efficient Surfactants. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8615-8621.	8.0	76
69	Shape and Color Switchable Block Copolymer Particles by Temperature and pH Dual Responses. <i>ACS Nano</i> , 2019, 13, 4230-4237.	14.6	76
70	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.	14.9	74
71	Controlled Ordering of Block Copolymer Thin Films by the Addition of Hydrophilic Nanoparticles. <i>Macromolecules</i> , 2007, 40, 8119-8124.	4.8	73
72	Multifunctional Crosslinkable Iridium Complexes as Hole Transporting/Electron Blocking and Emitting Materials for Solution-Processed Multilayer Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2009, 19, 1024-1031.	14.9	73

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73	Gold-Decorated Block Copolymer Microspheres with Controlled Surface Nanostructures. ACS Nano, 2012, 6, 2750-2757.	14.6	72
74	Facile Au catalyst loading on the inner shell of hollow SnO ₂ spheres using Au-decorated block copolymer sphere templates and their selective H ₂ S sensing characteristics. Nanoscale, 2014, 6, 11898-11903.	5.6	72
75	Monodisperse Nanostructured Spheres of Block Copolymers and Nanoparticles via Cross-Flow Membrane Emulsification. Chemistry of Materials, 2015, 27, 6314-6321.	6.7	72
76	Facile Synthesis of Thermally Stable Core-Shell Gold Nanoparticles via Photo-Cross-Linkable Polymeric Ligands. Macromolecules, 2010, 43, 3570-3575.	4.8	71
77	Au@Polymer Core-Shell Nanoparticles for Simultaneously Enhancing Efficiency and Ambient Stability of Organic Optoelectronic Devices. ACS Applied Materials & Interfaces, 2014, 6, 16956-16965.	8.0	71
78	Engineering the Shape of Block Copolymer Particles by Surface-Modulated Graphene Quantum Dots. Chemistry of Materials, 2016, 28, 830-837.	6.7	71
79	Impact of the photo-induced degradation of electron acceptors on the photophysics, charge transport and device performance of all-polymer and fullerene-polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 22170-22179.	10.3	71
80	Stimuli-Responsive, Shape-Transforming Nanostructured Particles. Advanced Materials, 2017, 29, 1700608.	21.0	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.	14.6	70
82	Design of Cyanovinylene-Containing Polymer Acceptors with Large Dipole Moment Change for Efficient Charge Generation in High-Performance All-Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1701436.	19.5	70
83	Effect of Fullerene Tris-adducts on the Photovoltaic Performance of P3HT:Fullerene Ternary Blends. ACS Applied Materials & Interfaces, 2013, 5, 4401-4408.	8.0	69
84	Intrinsically Stretchable Organic Solar Cells with Efficiencies of over 11%. ACS Energy Letters, 2021, 6, 2512-2518.	17.4	69
85	Bipolar Copolymers as Host for Electroluminescent Devices: Effects of Molecular Structure on Film Morphology and Device Performance. Macromolecules, 2007, 40, 8156-8161.	4.8	68
86	Facile Photo-Crosslinking of Azide-Containing Hole-Transporting Polymers for Highly Efficient, Solution-Processed, Multilayer Organic Light Emitting Devices. Advanced Functional Materials, 2014, 24, 7588-7596.	14.9	68
87	Origin of the High Donor-Acceptor Composition Tolerance in Device Performance and Mechanical Robustness of All-Polymer Solar Cells. Chemistry of Materials, 2020, 32, 582-594.	6.7	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.	6.7	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.	6.7	67
90	Material Design and Device Fabrication Strategies for Stretchable Organic Solar Cells. Advanced Materials, 2022, 34, .	21.0	67

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91	Size-Controlled Polymer-Coated Nanoparticles as Efficient Compatibilizers for Polymer Blends. <i>Macromolecules</i> , 2011, 44, 9852-9862.	4.8	66
92	Novel Templating Route Using Pt Infiltrated Block Copolymer Microparticles for Catalytic Pt Functionalized Macroporous WO ₃ Nanofibers and Its Application in Breath Pattern Recognition. <i>ACS Sensors</i> , 2016, 1, 1124-1131.	7.8	66
93	Controlling Energy Levels and Blend Morphology for All-Polymer Solar Cells via Fluorination of a Naphthalene Diimide-Based Copolymer Acceptor. <i>Macromolecules</i> , 2016, 49, 6374-6383.	4.8	66
94	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.	13.8	66
95	Multicolor Emission of Hybrid Block Copolymer-Quantum Dot Microspheres by Controlled Spatial Isolation of Quantum Dots. <i>Small</i> , 2013, 9, 2667-2672.	10.0	65
96	High-Crystalline Medium-Band-Gap Polymers Consisting of Benzodithiophene and Benzotriazole Derivatives for Organic Photovoltaic Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12820-12831.	8.0	64
97	Freestanding and Arrayed Nanoporous Microcylinders for Highly Active 3D SERS Substrate. <i>Chemistry of Materials</i> , 2013, 25, 2421-2426.	6.7	64
98	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.	6.7	64
99	Ethanol-Processable, Highly Crystalline Conjugated Polymers for Eco-Friendly Fabrication of Organic Transistors and Solar Cells. <i>Macromolecules</i> , 2017, 50, 4415-4424.	4.8	63
100	Ionic Liquid-Carbon Nanotube Sensor Arrays for Human Breath Related Volatile Organic Compounds. <i>ACS Sensors</i> , 2018, 3, 2432-2437.	7.8	63
101	Shape-Anisotropic Diblock Copolymer Particles from Evaporative Emulsions: Experiment and Theory. <i>Macromolecules</i> , 2019, 52, 1150-1157.	4.8	61
102	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.	30.8	61
103	Methoxy-Functionalized Triarylamine-Based Hole-Transporting Polymers for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3304-3313.	17.4	59
104	Importance of End-Group Structure in Controlling the Interfacial Activity of Polymer-Coated Nanoparticles. <i>Macromolecules</i> , 2007, 40, 1796-1798.	4.8	58
105	Tailoring Core-Shell Polymer-Coated Nanoparticles as Block Copolymer Surfactants. <i>Macromolecules</i> , 2009, 42, 6193-6201.	4.8	58
106	Photoinduced Charge Transfer in Donor-Acceptor (DA) Copolymer: Fullerene Bis-adduct Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 861-868.	8.0	58
107	Controlling the Orientation of Block Copolymer Thin Films using Thermally-Stable Gold Nanoparticles with Tuned Surface Chemistry. <i>Macromolecules</i> , 2011, 44, 9356-9365.	4.8	57
108	Highly Sensitive and Selective Liquid-Phase Sensors Based on a Solvent-Resistant Organic Transistor Platform. <i>Advanced Materials</i> , 2015, 27, 1540-1546.	21.0	57

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109	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.	14.9	55
110	Importance of Optimal Crystallinity and Hole Mobility of BDT-Based Polymer Donor for Simultaneous Enhancements of V_{oc} , J_{sc} , and FF in Efficient Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2005787.	14.9	55
111	Photoswitchable Surfactant-Driven Reversible Shape- and Color-Changing Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2021, 143, 13333-13341.	13.7	55
112	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.	10.3	54
113	Cyano-Functionalized n -Type Polymer with High Electron Mobility for High-Performance Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2022, 34, e2201340.	21.0	54
114	Interfacial Roughening Induced by the Reaction of End-Functionalized Polymers at a PS/P2VP Interface: A Quantitative Analysis by DSIMS. <i>Macromolecules</i> , 2005, 38, 6106-6114.	4.8	53
115	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.	19.5	52
116	Effect of Incorporated Nitrogens on the Planarity and Photovoltaic Performance of Donor-Acceptor Copolymers. <i>Macromolecules</i> , 2012, 45, 6415-6423.	4.8	51
117	Colorimetric Thermometer from Graphene Oxide Platform Integrated with Red, Green, and Blue Emitting, Responsive Block Copolymers. <i>Chemistry of Materials</i> , 2016, 28, 3446-3453.	6.7	51
118	Development of Shape-Tuned, Monodisperse Block Copolymer Particles through Solvent-Mediated Particle Restructuring. <i>Chemistry of Materials</i> , 2019, 31, 1066-1074.	6.7	51
119	Mantis shrimp-inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. <i>Science Advances</i> , 2021, 7, .	10.3	51
120	The effect of side-chain length on regioregular poly[3-(4-n-alkyl)phenylthiophene]/PCBM and ICBA polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 14236.	6.7	50
121	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.	8.0	50
122	Hierarchically Structured Colloids of Diblock Copolymers and Au Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 3739-3741.	6.7	49
123	Synthesis of thermally stable Au-core/Pt-shell nanoparticles and their segregation behavior in diblock copolymer mixtures. <i>Soft Matter</i> , 2011, 7, 6255.	2.7	47
124	Aspect Ratio-Controlled Synthesis of Uniform Colloidal Block Copolymer Ellipsoids from Evaporative Emulsions. <i>Chemistry of Materials</i> , 2018, 30, 6277-6288.	6.7	47
125	Hydrogen Sensors Based on MoS_2 Hollow Architectures Assembled by Pickering Emulsion. <i>ACS Nano</i> , 2020, 14, 9652-9661.	14.6	47
126	Efficient Temperature Sensing Platform Based on Fluorescent Block Copolymer-Functionalized Graphene Oxide. <i>Nanoscale</i> , 2013, 5, 5720.	5.6	46

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127	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.	6.7	46
128	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.	19.5	46
129	High-Performance <i>Click</i> -Type Organic Electrochemical Transistors Enabled by Aqueous Solution Processing of Amphiphilicity-Driven Polymer Assembly. <i>Advanced Functional Materials</i> , 2022, 32, 2111950.	14.9	46
130	<i>Click</i> -synthesis of thermally stable Au nanoparticles with highly grafted polymer shell and control of their behavior in polymer matrix. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3464-3474.	2.3	45
131	Intrinsically Stretchable, Efficient Organic Solar Cells Achieved by High-Molecular-Weight, Electro-Active Polymer Acceptor Additives. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	45
132	Controlling side-chain density of electron donating polymers for improving their packing structure and photovoltaic performance. <i>Chemical Communications</i> , 2011, 47, 3577.	4.1	44
133	Bicontinuous Block Copolymer Morphologies Produced by Interfacially Active, Thermally Stable Nanoparticles. <i>Macromolecules</i> , 2011, 44, 9366-9373.	4.8	44
134	Highly Luminescent Polymer Particles Driven by Thermally Reduced Graphene Quantum Dot Surfactants. <i>ACS Macro Letters</i> , 2014, 3, 985-990.	4.8	42
135	Aspect ratio effect of nanorod surfactants on the shape and internal morphology of block copolymer particles. <i>Journal of Polymer Science Part A</i> , 2015, 53, 188-192.	2.3	42
136	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.	8.0	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. <i>Chemistry of Materials</i> , 2015, 27, 2653-2658.	6.7	41
138	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.	10.3	41
139	Importance of High-Electron Mobility in Polymer Acceptors for Efficient All-Polymer Solar Cells: Combined Engineering of Backbone Building Unit and Regioregularity. <i>Advanced Functional Materials</i> , 2022, 32, 2108508.	14.9	41
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272	Stabilization of complex morphologies in highly disperse AB diblock copolymers. Polymer, 2020, 198, 122519.	3.8	2
273	Triallyl isocyanurate-assisted 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
274	Bio-inspired spectropolarimetric sensor based on tandem organic photodetectors and multi-twist liquid crystals. Optics Express, 2021, 29, 43953.	3.4	2
275	A 3D Hierarchical Host with Enhanced Sodiophilicity Enabling Anode-Free Sodium-Metal Batteries (Adv. Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	2
276	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
277	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
278	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
279	PROPERTIES OF COPPER LAYER ON Si(100) FROM Cu(dmamb) ₂ . Surface Review and Letters, 2010, 17, 307-310.	1.1	0
280	Multicolor Emission: Multicolor Emission of Hybrid Block Copolymer-Quantum Dot Microspheres by Controlled Spatial Isolation of Quantum Dots (Small 16/2013). Small, 2013, 9, 2654-2654.	10.0	0
281	Organic Electronics: Facile Photo-Crosslinking of Azide-Containing Hole-Transporting Polymers for Highly Efficient, Solution-Processed, Multilayer Organic Light Emitting Devices (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	0
282	Light-Emitting Diodes: Simultaneously Enhancing Light Extraction and Device Stability of Organic Light-Emitting Diodes using a Corrugated Polymer Nanosphere Templated PEDOT:PSS Layer (Adv. Energy) Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	0
283	Sensors: Highly Sensitive and Selective Liquid-Phase Sensors Based on a Solvent-Resistant Organic-Transistor Platform (Adv. Mater. 9/2015). Advanced Materials, 2015, 27, 1470-1470.	21.0	0
284	Photothermal Imaging: Fluorescent Block Copolymer-MoS ₂ Nanocomposites for Real-Time Photothermal Heating and Imaging (Adv. Funct. Mater. 5/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
285	Solar Cells: Rationally Designed Donor-Acceptor Random Copolymers with Optimized Complementary Light Absorption for Highly Efficient All-Polymer Solar Cells (Adv. Funct. Mater. 38/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
286	Effect of the acceptor types on the fracture behavior of polymer solar cells. , 2018, , .		0
287	Effect of Conductive Filler Shape on Fine Electrode Pattern of Photosensitive Silver Pastes. Porrima, 2015, 39, 662.	0.2	0
288	Morphological Stability in Bulk Heterojunction Polymer Solar Cells. Materials and Energy, 2018, , 165-208.	0.1	0