

Cheolmin Park

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.

170
papers

7,495
citations

44
h-index

82
g-index

191
ext. papers

8,428
ext. citations

11.4
avg, IF

5.98
L-index

#	Paper	IF	Citations
170	Photonic Crystal Palette of Binary Block Copolymer Blends for Full Visible Structural Color Encryption (Adv. Funct. Mater. 1/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270006	15.6	
169	Ferroelectric polymer blends for optoelectronic applications 2022 , 113-151		0
168	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets (Small 6/2022). <i>Small</i> , 2022 , 18, 2270027	11	
167	Self-powered finger motion-sensing structural color display enabled by block copolymer photonic crystal. <i>Nano Energy</i> , 2022 , 92, 106688	17.1	6
166	Visualization of nonsingular defect enabling rapid control of structural color.. <i>Science Advances</i> , 2022 , 8, eabm5120	14.3	0
165	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis.. <i>Advanced Materials</i> , 2022 , e2201608	24	1
164	Bird-Inspired Self-Navigating Artificial Synaptic Compass. <i>ACS Nano</i> , 2021 ,	16.7	3
163	Soft Ferroelectrics Enabling High-Performance Intelligent Photo Electronics. <i>Advanced Materials</i> , 2021 , 33, e2004999	24	18
162	Polymer-Laminated TiCT MXene Electrodes for Transparent and Flexible Field-Driven Electronics. <i>ACS Nano</i> , 2021 , 15, 8940-8952	16.7	19
161	Supra-Binary Polarization in a Ferroelectric Nanowire. <i>Advanced Materials</i> , 2021 , 33, e2101981	24	1
160	Photon-assisted nanostructures of self-assembled soft materials. <i>Nano Today</i> , 2021 , 38, 101199	17.9	2
159	Thermo-Adaptive Block Copolymer Structural Color Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2008548	15.6	19
158	Nanowatt use 8V switching nonvolatile memory transistors with 2D MoTe2 channel and ferroelectric P(VDF-TrFE). <i>Nano Energy</i> , 2021 , 81, 105686	17.1	3
157	Tandem Interactive Sensing Display De-Convoluting Dynamic Pressure and Temperature. <i>Advanced Functional Materials</i> , 2021 , 31, 2010492	15.6	5
156	Conductor-Free Anode of Transition Metal Dichalcogenide Nanosheets Self-Assembled with Graft Polymer Li-Ion Channels. <i>Advanced Energy Materials</i> , 2021 , 11, 2003243	21.8	7
155	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets.. <i>Small</i> , 2021 , e2106035	11	2
154	1D hypo-crystals: A novel concept for the crystallization of stereo-irregular polymers. <i>Materials Today</i> , 2020 , 40, 26-37	21.8	6

153	Alternating-Current MXene Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001224	15.6	15
152	Micro- and Nanopatterning of Halide Perovskites Where Crystal Engineering for Emerging Photoelectronics Meets Integrated Device Array Technology. <i>Advanced Materials</i> , 2020 , 32, e2000597	24	31
151	Ecofriendly Catechol Lipid Bioresin for Low-Temperature Processed Electrode Patterns with Strong Durability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16864-16876	9.5	9
150	Controlled polymer crystal/two-dimensional material heterostructures for high-performance photoelectronic applications. <i>Nanoscale</i> , 2020 , 12, 5293-5307	7.7	5
149	Realization of Excitation Wavelength Independent Blue Emission of ZnO Quantum Dots with Intrinsic Defects. <i>ACS Photonics</i> , 2020 , 7, 723-734	6.3	11
148	Polymer-Assisted Nanoimprinting for Environment- and Phase-Stable Perovskite Nanopatterns. <i>ACS Nano</i> , 2020 , 14, 1645-1655	16.7	26
147	Structurally Stable and Highly Enhanced Luminescent Perovskite Based on Quasi-Two-Dimensional Structures upon Addition of Guanidinium Cations. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4414-4420	3.8	10
146	Surface-Conformal Triboelectric Nanopores via Supramolecular Ternary Polymer Assembly. <i>ACS Nano</i> , 2020 , 14, 755-766	16.7	13
145	Highly luminescent biocompatible CsPbBr ₃ @SiO ₂ core-shell nanopores for bioimaging and drug delivery. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10337-10345	7.3	29
144	Liquid-Metal Electrodes: Autonomous Surface Reconciliation of a Liquid-Metal Conductor Micropatterned on a Deformable Hydrogel (Adv. Mater. 37/2020). <i>Advanced Materials</i> , 2020 , 32, 2070277	24	0
143	Zwitterion-assisted transition metal dichalcogenide nanosheets for scalable and biocompatible inkjet printing. <i>Nano Research</i> , 2020 , 13, 2726-2734	10	11
142	Dual Functionalization of Hexagonal Boron Nitride Nanosheets Using Pyrene-Tethered Poly(4-vinylpyridine) for Stable Dispersion and Facile Device Incorporation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7633-7642	5.6	6
141	Complementary Type Ferroelectric Memory Transistor Circuits with P- and N-Channel MoTe ₂ . <i>Advanced Electronic Materials</i> , 2020 , 6, 2000479	6.4	7
140	3D motion tracking display enabled by magneto-interactive electroluminescence. <i>Nature Communications</i> , 2020 , 11, 6072	17.4	12
139	3D touchless multicolor reflection structural color sensing display. <i>Science Advances</i> , 2020 , 6, eabb5769	14.3	40
138	Autonomous Surface Reconciliation of a Liquid-Metal Conductor Micropatterned on a Deformable Hydrogel. <i>Advanced Materials</i> , 2020 , 32, e2002178	24	43
137	Artificially Intelligent Tactile Ferroelectric Skin. <i>Advanced Science</i> , 2020 , 7, 2001662	13.6	21
136	Information Storage: Nonvolatile, Multicolored Photothermal Writing of Block Copolymer Structural Color (Adv. Funct. Mater. 42/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970295	15.6	

135	Multi-level operation of three-dimensionally stacked non-volatile ferroelectric polymer memory with high-performance hole-injection layer. <i>Organic Electronics</i> , 2019 , 75, 105394	3.5	8
134	Ultrastable Perovskites: Strain-Mediated Phase Stabilization: A New Strategy for Ultrastable FACsPbI_3 Perovskite by Nanoconfined Growth (Small 21/2019). <i>Small</i> , 2019 , 15, 1970114	11	1
133	Shape-Adaptable 2D Titanium Carbide (MXene) Heater. <i>ACS Nano</i> , 2019 , 13, 6835-6844	16.7	99
132	Interactive Skin Display with Epidermal Stimuli Electrode. <i>Advanced Science</i> , 2019 , 6, 1802351	13.6	40
131	Stretchable Electroluminescent Display Enabled by Graphene-Based Hybrid Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14222-14228	9.5	41
130	Highly Photoluminescent and Environmentally Stable Perovskite Nanocrystals Templated in Thin Self-Assembled Block Copolymer Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1808193	15.6	21
129	Flexible artificial synesthesia electronics with sound-synchronized electroluminescence. <i>Nano Energy</i> , 2019 , 59, 773-783	17.1	12
128	Strain-Mediated Phase Stabilization: A New Strategy for Ultrastable FACsPbI_3 Perovskite by Nanoconfined Growth. <i>Small</i> , 2019 , 15, e1900219	11	48
127	Self-Healing Materials: Shape-Deformable Self-Healing Electroluminescence Displays (Advanced Optical Materials 3/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970012	8.1	1
126	Rewritable, Printable Conducting Liquid Metal Hydrogel. <i>ACS Nano</i> , 2019 , 13, 9122-9130	16.7	52
125	Sensing and memorising liquids with polarity-interactive ferroelectric sound. <i>Nature Communications</i> , 2019 , 10, 3575	17.4	15
124	Improving the Stability of Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Using Doped Electron Transport Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900426	16.6	11
123	Nonvolatile, Multicolored Photothermal Writing of Block Copolymer Structural Color. <i>Advanced Functional Materials</i> , 2019 , 29, 1904055	15.6	20
122	Perovskite Nanopatterning: Highly Photoluminescent and Environmentally Stable Perovskite Nanocrystals Templated in Thin Self-Assembled Block Copolymer Films (Adv. Funct. Mater. 26/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970181	15.6	1
121	Optimization of the electron transport in quantum dot light-emitting diodes by codoping ZnO with gallium (Ga) and magnesium (Mg).. <i>RSC Advances</i> , 2019 , 9, 32066-32071	3.7	2
120	Shape-Deformable Self-Healing Electroluminescence Displays. <i>Advanced Optical Materials</i> , 2019 , 7, 1801883	11	11
119	Thin poly(ionic liquid) and poly(vinylidene fluoride) blend films with ferro- and piezo-electric polar crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 795-802	2.6	8
118	Epitaxially Grown Ferroelectric PVDF-TrFE Film on Shape-Tailored Semiconducting Rubrene Single Crystal. <i>Small</i> , 2018 , 14, e1704024	11	15

117	Block copolymer structural color strain sensor. <i>NPG Asia Materials</i> , 2018 , 10, 328-339	10.3	60
116	Light-Emitting Diodes: All-Inorganic CsPbI ₃ Perovskite Phase-Stabilized by Poly(ethylene oxide) for Red-Light-Emitting Diodes (Adv. Funct. Mater. 16/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870102	15.6	1
115	Surface functionalized nanostructures via position registered supramolecular polymer assembly. <i>Nanoscale</i> , 2018 , 10, 6333-6342	7.7	4
114	All-Inorganic CsPbI ₃ Perovskite Phase-Stabilized by Poly(ethylene oxide) for Red-Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1706401	15.6	127
113	Electroluminescent Pressure-Sensing Displays. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13757-13766	9.5	41
112	Biodegradable, electro-active chitin nanofiber films for flexible piezoelectric transducers. <i>Nano Energy</i> , 2018 , 48, 275-283	17.1	66
111	Triboelectric nanogenerators with transfer-printed arrays of hierarchically dewetted microdroplets. <i>Nano Energy</i> , 2018 , 51, 588-596	17.1	7
110	Flexible Vertical p-n Diode Photodetectors with Thin N-type MoSe Films Solution-Processed on Water Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34543-34552	9.5	17
109	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800080	3.1	14
108	Humidity-Resistant, Fabric-Based, Wearable Triboelectric Energy Harvester by Treatment of Hydrophobic Self-Assembled Monolayers. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800048	6.8	19
107	Highly flexible inverted-quantum-dot light-emitting diodes on elastic polyurethane substrates. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1596-1600	7.1	14
106	Spatially Pressure-Mapped Thermochromic Interactive Sensor. <i>Advanced Materials</i> , 2017 , 29, 1606120	24	60
105	One-Step All-Solution-Based Au@TiO ₂ Core/Shell Nanosphere Active Layers in Nonvolatile ReRAM Devices. <i>Advanced Functional Materials</i> , 2017 , 27, 1604604	15.6	31
104	Organic light emitting board for dynamic interactive display. <i>Nature Communications</i> , 2017 , 8, 14964	17.4	60
103	Supramolecular-Assembled Nanoporous Film with Switchable Metal Salts for a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2017 , 27, 1701367	15.6	17
102	Printable and Rewritable Full Block Copolymer Structural Color. <i>Advanced Materials</i> , 2017 , 29, 1700084	24	70
101	Flexible Nonvolatile Transistor Memory with Solution-Processed Transition Metal Dichalcogenides. <i>Small</i> , 2017 , 13, 1603971	11	43
100	Micropatterned Pyramidal Ionic Gels for Sensing Broad-Range Pressures with High Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10128-10135	9.5	191

99	Room-Temperature-Processable Wire-Templated Nanoelectrodes for Flexible and Transparent All-Wire Electronics. <i>ACS Nano</i> , 2017 , 11, 3681-3689	16.7	43
98	Shaping micro-clusters via inverse jamming and topographic close-packing of microbombs. <i>Nature Communications</i> , 2017 , 8, 721	17.4	7
97	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. <i>Macromolecular Research</i> , 2017 , 25, 559-564	1.9	12
96	Design of amine modified polymer dispersants for liquid-phase exfoliation of transition metal dichalcogenide nanosheets and their photodetective nanocomposites. <i>2D Materials</i> , 2017 , 4, 041002	5.9	11
95	Effect of the relative permittivity of oxides on the performance of triboelectric nanogenerators. <i>RSC Advances</i> , 2017 , 7, 49368-49373	3.7	56
94	Solution-processed electron-only tandem polymer light-emitting diodes for broad wavelength light emission. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 110-117	7.1	15
93	Multifunctional Woven Structure Operating as Triboelectric Energy Harvester, Capacitive Tactile Sensor Array, and Piezoresistive Strain Sensor Array. <i>Sensors</i> , 2017 , 17,	3.8	34
92	Flexible and highly efficient perovskite solar cells with a large active area incorporating cobalt-doped poly(3-hexylthiophene) for enhanced open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12158-12167	13	43
91	Solvent-Assisted Gel Printing for Micropatterning Thin Organic-Inorganic Hybrid Perovskite Films. <i>ACS Nano</i> , 2016 , 10, 9026-35	16.7	77
90	Thin and surface adhesive ferroelectric poly(vinylidene fluoride) films with γ -phase-inducing amino modified porous silica nanofillers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2401-2411	2.6	10
89	Nonvolatile Transistor Memory with Self-Assembled Semiconducting Polymer Nanodomain Floating Gates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33863-33873	9.5	28
88	Multicore-shell nanofiber architecture of polyimide/polyvinylidene fluoride blend for thermal and long-term stability of lithium ion battery separator. <i>Scientific Reports</i> , 2016 , 6, 36977	4.9	29
87	Epitaxial Growth of Thin Ferroelectric Polymer Films on Graphene Layer for Fully Transparent and Flexible Nonvolatile Memory. <i>Nano Letters</i> , 2016 , 16, 334-40	11.5	101
86	Non-Volatile Polymer Electroluminescence Programmable with Ferroelectric Field-Induced Charge Injection Gate. <i>Advanced Functional Materials</i> , 2016 , 26, 5391-5399	15.6	17
85	Boron Nitride Nanosheets (BNNs) Chemically Modified by "Grafting-From" Polymerization of Poly(caprolactone) for Thermally Conductive Polymer Composites. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1921-8	4.5	39
84	Humidity controlled crystallization of thin CH ₃ NH ₃ PbI ₃ films for high performance perovskite solar cell. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 381-387	2.5	34
83	Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic-Nanowire-Digital-Alignment Technique and a One-Step Reduction Process. <i>Advanced Materials</i> , 2016 , 28, 527-32	24	30
82	Nanowires: Simple, Inexpensive, and Rapid Approach to Fabricate Cross-Shaped Memristors Using an Inorganic-Nanowire-Digital-Alignment Technique and a One-Step Reduction Process (Adv. Mater. 3/2016). <i>Advanced Materials</i> , 2016 , 28, 591-591	24	

81	Multilevel non-volatile data storage utilizing common current hysteresis of networked single walled carbon nanotubes. <i>Nanoscale</i> , 2016 , 8, 10273-81	7.7	10
80	A field-induced hole generation layer for high performance alternating current polymer electroluminescence and its application to extremely flexible devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4434-4441	7.1	12
79	Non-Volatile ReRAM Devices Based on Self-Assembled Multilayers of Modified Graphene Oxide 2D Nanosheets. <i>Small</i> , 2016 , 12, 6167-6174	11	37
78	3D-Stacked Vertical Channel Nonvolatile Polymer Memory. <i>Advanced Electronic Materials</i> , 2015 , 1, 14000-14004	11.7	15
77	Molecularly Engineered Surface Triboelectric Nanogenerator by Self-Assembled Monolayers (METS). <i>Chemistry of Materials</i> , 2015 , 27, 4749-4755	9.6	77
76	High through-plane thermal conduction of graphene nanoflake filled polymer composites melt-processed in an L-shape kinked tube. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15256-62	9.5	123
75	Highly reliable top-gated thin-film transistor memory with semiconducting, tunneling, charge-trapping, and blocking layers all of flexible polymers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10957-65	9.5	60
74	Inverted quantum dot light emitting diodes using polyethylenimine ethoxylated modified ZnO. <i>Scientific Reports</i> , 2015 , 5, 8968	4.9	89
73	Electrically Tunable Soft-Solid Block Copolymer Structural Color. <i>ACS Nano</i> , 2015 , 9, 12158-67	16.7	53
72	Flexible transition metal dichalcogenide nanosheets for band-selective photodetection. <i>Nature Communications</i> , 2015 , 6, 8063	17.4	157
71	Controlled Nanopores in Thin Films of Nonstoichiometrically Supramolecularly Assembled Graft Copolymers. <i>Chemistry - A European Journal</i> , 2015 , 21, 18375-82	4.8	6
70	High-performance alternating current electroluminescent layers solution blended with mechanically and electrically robust nonradiating polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1629-1640	2.6	3
69	Highly crystalline Fe ₂ GeS ₄ nanocrystals: green synthesis and their structural and optical characterization. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2265-2270	13	23
68	Transition behavior of asymmetric polystyrene- b -poly(2-vinylpyridine) films: A stable hexagonally modulated layer structure. <i>Polymer</i> , 2015 , 60, 32-39	3.9	24
67	Efficient room-temperature near-infrared detection with solution-processed networked single wall carbon nanotube field effect transistors. <i>Small</i> , 2014 , 10, 653-9	11	7
66	Layer-by-Layer Controlled Perovskite Nanocomposite Thin Films for Piezoelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2014 , 24, 6262-6269	15.6	39
65	Piezoelectrics: Layer-by-Layer Controlled Perovskite Nanocomposite Thin Films for Piezoelectric Nanogenerators (Adv. Funct. Mater. 40/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 6246-6246	15.6	
64	Non-volatile ferroelectric memory with position-addressable polymer semiconducting nanowire. <i>Small</i> , 2014 , 10, 1976-84	11	49

63	Organic one-transistor-type nonvolatile memory gated with thin ionic liquid-polymer film for low voltage operation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20179-87	9.5	35
62	Laser-induced nondestructive patterning of a thin ferroelectric polymer film with controlled crystals using Ge ₈ Sb ₂ Te ₁₁ alloy layer for nonvolatile memory. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15171-8	9.5	12
61	Controlled Nanopores by Supramolecular Assembly of End-Functionalized Dendrimer and Homopolymer Blend. <i>ACS Macro Letters</i> , 2014 , 3, 1112-1116	6.6	6
60	Thermal conductivity behavior of SiC/Nylon 6,6 and hBN/Nylon 6,6 composites. <i>Research on Chemical Intermediates</i> , 2014 , 40, 33-40	2.8	13
59	Non-volatile organic memory with sub-millimetre bending radius. <i>Nature Communications</i> , 2014 , 5, 3583	17.4	182
58	Extremely bright full color alternating current electroluminescence of solution-blended fluorescent polymers with self-assembled block copolymer micelles. <i>ACS Nano</i> , 2013 , 7, 10809-17	16.7	44
57	High Performance Multi-Level Non-Volatile Polymer Memory with Solution-Blended Ferroelectric Polymer/High-k Insulators for Low Voltage Operation. <i>Advanced Functional Materials</i> , 2013 , 23, 5484-5493	15.6	68
56	Control of Current Hysteresis of Networked Single-Walled Carbon Nanotube Transistors by a Ferroelectric Polymer Gate Insulator. <i>Advanced Functional Materials</i> , 2013 , 23, 1120-1128	15.6	20
55	Thin ferroelectric poly(vinylidene fluoride-chlorotrifluoro ethylene) films for thermal history independent non-volatile polymer memory. <i>Organic Electronics</i> , 2012 , 13, 491-497	3.5	12
54	Micropatterns of Non-Circular Droplets of Nanostructured PS-b-PEO Copolymer by Solvent-Assisted Wetting on a Chemically Periodic Surface. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 431-438	2.6	6
53	Functionalized soft nanoporous materials through supramolecular assembly of end-functionalized polymer blends. <i>Chemistry - A European Journal</i> , 2012 , 18, 15662-8	4.8	10
52	High throughput modification of chemically reduced graphene oxides by a conjugated block copolymer in non-polar medium. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25183		22
51	Flexible non-volatile ferroelectric polymer memory with gate-controlled multilevel operation. <i>Advanced Materials</i> , 2012 , 24, 5910-4	24	162
50	Dewetting-Induced Hierarchical Patterns in Block Copolymer Films. <i>Macromolecules</i> , 2012 , 45, 1492-1498	9.5	15
49	Transistors: Flexible Non-Volatile Ferroelectric Polymer Memory with Gate-Controlled Multilevel Operation (Adv. Mater. 44/2012). <i>Advanced Materials</i> , 2012 , 24, 5904-5904	24	
48	High performance AC electroluminescence from colloidal quantum dot hybrids. <i>Advanced Materials</i> , 2012 , 24, 4540-6	24	63
47	Supramolecular assembly of end-functionalized polymer mixtures confined in nanospheres. <i>ACS Nano</i> , 2011 , 5, 115-22	16.7	28
46	Non-volatile memory characteristics of epitaxially grown PVDF-TrFE thin films and their printed micropattern application. <i>Current Applied Physics</i> , 2011 , 11, e30-e34	2.6	20

45	Super-Fast Switching of Twisted Nematic Liquid Crystals on 2D Single Wall Carbon Nanotube Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 3843-3850	15.6	66
44	Tailored single crystals of triisopropylsilylethynyl pentacene by selective contact evaporation printing. <i>Advanced Materials</i> , 2011 , 23, 3398-402	24	60
43	Fabrication of micropatterned ferroelectric gamma poly(vinylidene fluoride) film for non-volatile polymer memory. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3619		36
42	Intrinsic memory behavior of rough silicon nanowires and enhancement via facile Ag NPs decoration. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13256		13
41	Nonvolatile polymer memory with nanoconfinement of ferroelectric crystals. <i>Nano Letters</i> , 2011 , 11, 138-44	11.5	111
40	Compression of cross-linked poly(vinylidene fluoride-co-trifluoro ethylene) films for facile ferroelectric polarization. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4736-43	9.5	12
39	AC field-induced polymer electroluminescence with single wall carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 966-72	11.5	62
38	Control of thin ferroelectric polymer films for non-volatile memory applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2010 , 17, 1135-1163	2.3	107
37	Micropatterns of Hierarchical Self-Assembled Block Copolymer Droplets with Solvent-Assisted Wetting of Brush Monolayers. <i>Macromolecules</i> , 2010 , 43, 5352-5357	5.5	13
36	Self assembled block copolymer gate insulators with cylindrical nanostructures for pentacene thin film transistor. <i>Macromolecular Research</i> , 2010 , 18, 777-786	1.9	10
35	Ultrathin, Organic, Semiconductor/Polymer Blends by Scanning Corona-Discharge Coating for High-Performance Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2010 , 20, 2903-2910	15.6	20
34	Ultrathin Electronic Composite Sheets of Metallic/Semiconducting Carbon Nanotubes Embedded in Conjugated Block Copolymers. <i>Advanced Functional Materials</i> , 2010 , 20, 4305-4313	15.6	16
33	Ultrathin Electronic Composite Sheets of Metallic/Semiconducting Carbon Nanotubes Embedded in Conjugated Block Copolymers. <i>Advanced Functional Materials</i> , 2010 , 20, 4304-4304	15.6	
32	Non-volatile Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) Memory Based on a Single-Crystalline Tri-isopropylsilylethynyl Pentacene Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2009 , 19, 1609-1616	15.6	128
31	Printable Ferroelectric PVDF/PMMA Blend Films with Ultralow Roughness for Low Voltage Non-Volatile Polymer Memory. <i>Advanced Functional Materials</i> , 2009 , 19, 2812-2818	15.6	210
30	Ordered micropatterns by confined dewetting of an imprinted polymer thin film and their microlens application. <i>Macromolecular Research</i> , 2009 , 17, 181-186	1.9	8
29	Ordered Arrays of PS-b-P4VP Micelles by Fusion and Fission Process upon Solvent Annealing. <i>Macromolecules</i> , 2009 , 42, 6688-6697	5.5	46
28	Shear-Induced Ordering of Ferroelectric Crystals in Spin-Coated Thin Poly(vinylidene fluoride-co-trifluoroethylene) Films. <i>Macromolecules</i> , 2009 , 42, 4148-4154	5.5	44

27	Tunable Surface Plasmon Band of Position Selective Ag and Au Nanoparticles in Thin Block Copolymer Micelle Films. <i>Chemistry of Materials</i> , 2009 , 21, 4248-4255	9.6	35
26	Bimodal arrays of two types of nanoparticles by mixtures of diblock copolymer micelles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1621		7
25	Efficient photocatalytic hybrid Ag/TiO ₂ nanodot arrays integrated into nanopatterned block copolymer thin films. <i>New Journal of Chemistry</i> , 2009 , 33, 2431	3.6	29
24	Ordered Ferroelectric PVDF/TrFE Thin Films by High Throughput Epitaxy for Nonvolatile Polymer Memory. <i>Macromolecules</i> , 2008 , 41, 8648-8654	5.5	95
23	Nanopatterning of thin polymer films by controlled dewetting on a topographic pre-pattern. <i>Soft Matter</i> , 2008 , 4, 1467-1472	3.6	49
22	Micropatterning of thin P3HT films via plasma enhanced polymer transfer printing. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3489		47
21	Molecular and Crystalline Microstructure of Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) Ultrathin Films on Bare and Self-Assembled Monolayer-Modified Au Substrates. <i>Macromolecules</i> , 2008 , 41, 109-119	5.5	44
20	Comparative electrical bistable characteristics of ferroelectric poly(vinylidene fluoride-trifluoroethylene) copolymer based nonvolatile memory device architectures. <i>Applied Physics Letters</i> , 2008 , 93, 182902	3.4	26
19	Spin cast ferroelectric beta poly(vinylidene fluoride) thin films via rapid thermal annealing. <i>Applied Physics Letters</i> , 2008 , 92, 012921	3.4	122
18	Preferential formation of electroactive crystalline phases in poly(vinylidene fluoride)/organically modified silicate nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 2173-2187	2.6	133
17	Metal Salt-Induced Ferroelectric Crystalline Phase in Poly(vinylidene fluoride) Films. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1316-1321	4.8	55
16	Mixtures of Diblock Copolymer Micelles by Different Mixing Protocols. <i>Macromolecules</i> , 2007 , 40, 8323-8328	3.8	42
15	Control of SWNT Dispersion by Block Copolymers with a Side-Chain Polarity Modifier. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 176-182	4.8	14
14	The effect of an external electric field on solid-state phase transition of P(VDF/TrFE)(72/28). <i>Fibers and Polymers</i> , 2007 , 8, 456-462	2	11
13	Irreversible extinction of ferroelectric polarization in P(VDF-TrFE) thin films upon melting and recrystallization. <i>Applied Physics Letters</i> , 2006 , 88, 242908	3.4	94
12	Ordered Patterns of Microimprinted Bilayer Polymer Films with Controlled Dewetting and Layer Inversion. <i>Macromolecules</i> , 2006 , 39, 901-903	5.5	29
11	Amphiphilic Block Copolymer Micelles: New Dispersant for Single Wall Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1451-1457	4.8	87
10	Direct patterning of self assembled nano-structures of block copolymers via electron beam lithography. <i>Macromolecular Research</i> , 2005 , 13, 435-440	1.9	11

9	Enabling nanotechnology with self assembled block copolymer patterns. <i>Polymer</i> , 2003 , 44, 6725-6760	3.9	1309
8	Large Area Orientation of Block Copolymer Microdomains in Thin Films via Directional Crystallization of a Solvent. <i>Macromolecules</i> , 2001 , 34, 2602-2606	5.5	88
7	Microdomain patterns from directional eutectic solidification and epitaxy. <i>Nature</i> , 2000 , 405, 433-7	50.4	333
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5	MetalOrganic Framework-Assisted Metal-Ion Doping in All-Inorganic Perovskite for Dual-Mode Image Sensing Display. <i>Advanced Functional Materials</i> , 2111894	15.6	0
4	Retina-Inspired Structurally Tunable Synaptic Perovskite Nanocones. <i>Advanced Functional Materials</i> , 2105596	15.6	9
3	Photonic Crystal Palette of Binary Block Copolymer Blends for Full Visible Structural Color Encryption. <i>Advanced Functional Materials</i> , 2103697	15.6	4
2	Hierarchically Ordered Perovskites with High Photo-Electronic and Environmental Stability via Nanoimprinting Guided Block Copolymer Self-Assembly. <i>Advanced Materials Interfaces</i> , 2200082	4.6	3
1	Low-Powered E-Switching Block Copolymer Structural Color Display with Organohydrogel Humidity Controller. <i>Advanced Materials Technologies</i> , 2200385	6.8	1