

Thomas P Russell

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963 papers	77,178 citations	140 h-index	238 g-index
1,013 ext. papers	82,527 ext. citations	10.3 avg, IF	8.06 L-index

#	Paper	IF	Citations
963	Nanoparticle polymer composites: where two small worlds meet. <i>Science</i> , 2006 , 314, 1107-10	33.3	2117
962	Ultrahigh-density nanowire arrays grown in self-assembled diblock copolymer templates. <i>Science</i> , 2000 , 290, 2126-9	33.3	1876
961	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , 2015 , 9, 174-179	33.9	1495
960	Controlling Polymer-Surface Interactions with Random Copolymer Brushes. <i>Science</i> , 1997 , 275, 1458-1460	33.3	1117
959	Self-assembly of nanoparticles into structured spherical and network aggregates. <i>Nature</i> , 2000 , 404, 746-8	50.4	1010
958	Self-directed self-assembly of nanoparticle/copolymer mixtures. <i>Nature</i> , 2005 , 434, 55-9	50.4	861
957	Nanoparticle assembly and transport at liquid-liquid interfaces. <i>Science</i> , 2003 , 299, 226-9	33.3	858
956	Highly Oriented and Ordered Arrays from Block Copolymers via Solvent Evaporation. <i>Advanced Materials</i> , 2004 , 16, 226-231	24	831
955	Controlled Synthesis of Polymer Brushes by Living/Free Radical Polymerization Techniques. <i>Macromolecules</i> , 1999 , 32, 1424-1431	5.5	825
954	A series of simple oligomer-like small molecules based on oligothiophenes for solution-processed solar cells with high efficiency. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3886-93	16.4	722
953	Burnout and career satisfaction among American surgeons. <i>Annals of Surgery</i> , 2009 , 250, 463-71	7.8	715
952	Small-molecule solar cells with efficiency over 9%. <i>Nature Photonics</i> , 2015 , 9, 35-41	33.9	701
951	Electrically induced structure formation and pattern transfer. <i>Nature</i> , 2000 , 403, 874-7	50.4	677
950	Local Control of Microdomain Orientation in Diblock Copolymer Thin Films with Electric Fields. <i>Science</i> , 1996 , 273, 931-3	33.3	677
949	Macroscopic 10-terabit-per-square-inch arrays from block copolymers with lateral order. <i>Science</i> , 2009 , 323, 1030-3	33.3	653
948	Block copolymer nanolithography: translation of molecular level control to nanoscale patterns. <i>Advanced Materials</i> , 2009 , 21, 4769-92	24	585
947	Block Copolymer Lithography: Merging Bottom-Up with Top-Down Processes. <i>MRS Bulletin</i> , 2005 , 30, 952-966	3.2	569

946	Nanoscopic Templates from Oriented Block Copolymer Films. <i>Advanced Materials</i> , 2000 , 12, 787-791	24	565
945	Holey silicon as an efficient thermoelectric material. <i>Nano Letters</i> , 2010 , 10, 4279-83	11.5	559
944	P3HT/PCBM bulk heterojunction organic photovoltaics: correlating efficiency and morphology. <i>Nano Letters</i> , 2011 , 11, 561-7	11.5	511
943	Nanoporous Membranes with Ultrahigh Selectivity and Flux for the Filtration of Viruses. <i>Advanced Materials</i> , 2006 , 18, 709-712	24	497
942	A generalized approach to the modification of solid surfaces. <i>Science</i> , 2005 , 308, 236-9	33.3	467
941	Self-assembly of nanoparticles at interfaces. <i>Soft Matter</i> , 2007 , 3, 1231-1248	3.6	466
940	Surface-responsive materials. <i>Science</i> , 2002 , 297, 964-7	33.3	451
939	Polymers on Nanoperiodic, Heterogeneous Surfaces. <i>Physical Review Letters</i> , 1999 , 82, 2602-2605	7.4	406
938	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. <i>Advanced Materials</i> , 2015 , 27, 3310-7	24	400
937	Neutron reflectivity studies of the surface-induced ordering of diblock copolymer films. <i>Physical Review Letters</i> , 1989 , 62, 1852-1855	7.4	400
936	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7282-5	16.4	396
935	Capillary wrinkling of floating thin polymer films. <i>Science</i> , 2007 , 317, 650-3	33.3	385
934	Temperature dependence of the interaction parameter of polystyrene and poly(methyl methacrylate). <i>Macromolecules</i> , 1990 , 23, 890-893	5.5	370
933	Structurally Diverse Dendritic Libraries: A Highly Efficient Functionalization Approach Using Click Chemistry. <i>Macromolecules</i> , 2005 , 38, 3663-3678	5.5	338
932	Near-surface alignment of polymers in rubbed films. <i>Nature</i> , 1995 , 374, 709-711	50.4	332
931	Curving and frustrating flatland. <i>Science</i> , 2004 , 306, 76	33.3	326
930	Hierarchical nanoparticle assemblies formed by decorating breath figures. <i>Nature Materials</i> , 2004 , 3, 302-6	27	323
929	Surface-induced orientation of symmetric, diblock copolymers: a secondary ion mass-spectrometry study. <i>Macromolecules</i> , 1989 , 22, 2581-2589	5.5	323

928	Integration of self-assembled diblock copolymers for semiconductor capacitor fabrication. <i>Applied Physics Letters</i> , 2001 , 79, 409-411	3.4	317
927	26 mA cm ⁻² Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. <i>Science Bulletin</i> , 2017 , 62, 1494-1496	10.6	316
926	Orthogonal approaches to the simultaneous and cascade functionalization of macromolecules using click chemistry. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14942-9	16.4	311
925	The morphology of symmetric diblock copolymers as revealed by neutron reflectivity. <i>Journal of Chemical Physics</i> , 1990 , 92, 5677-5691	3.9	311
924	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13130-7	16.4	308
923	Observed surface energy effects in confined diblock copolymers. <i>Physical Review Letters</i> , 1996 , 76, 2503-2506	2.5	303
922	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. <i>Science China Chemistry</i> , 2018 , 61, 531-537	7.9	302
921	Single-layered organic photovoltaics with double cascading charge transport pathways: 18% efficiencies. <i>Nature Communications</i> , 2021 , 12, 309	17.4	302
920	Polymer Mobility in Thin Films. <i>Macromolecules</i> , 1996 , 29, 6531-6534	5.5	300
919	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. <i>Advanced Materials</i> , 2018 , 30, e1801801	24	299
918	Efficient polymer solar cells based on benzothiadiazole and alkylphenyl substituted benzodithiophene with a power conversion efficiency over 8%. <i>Advanced Materials</i> , 2013 , 25, 4944-9	24	298
917	Entropy-driven segregation of nanoparticles to cracks in multilayered composite polymer structures. <i>Nature Materials</i> , 2006 , 5, 229-233	27	297
916	On exfoliation of montmorillonite in epoxy. <i>Polymer</i> , 2001 , 42, 5947-5952	3.9	290
915	Improving the ordering and photovoltaic properties by extending π -conjugated area of electron-donating units in polymers with D-A structure. <i>Advanced Materials</i> , 2012 , 24, 3383-9	24	289
914	Donor-Acceptor Poly(thiophene-block-perylene diimide) Copolymers: Synthesis and Solar Cell Fabrication. <i>Macromolecules</i> , 2009 , 42, 1079-1082	5.5	286
913	On the morphology of polymer-based photovoltaics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1018-1044	2.6	285
912	Using Surface Active Random Copolymers To Control the Domain Orientation in Diblock Copolymer Thin Films. <i>Macromolecules</i> , 1998 , 31, 7641-7650	5.5	280
911	Characteristics of the surface-induced orientation for symmetric diblock PS/PMMA copolymers. <i>Macromolecules</i> , 1989 , 22, 4600-4606	5.5	280

910	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, 1705208	24	272
909	Nanodomain control in copolymer thin films. <i>Nature</i> , 1998 , 395, 757-758	50.4	272
908	Defect-free nanoporous thin films from ABC triblock copolymers. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7622-9	16.4	269
907	Simultaneous SAXS-DSC study of multiple endothermic behavior in polyether-based polyurethane block copolymers. <i>Macromolecules</i> , 1986 , 19, 714-720	5.5	269
906	A Free Energy Model for Confined Diblock Copolymers. <i>Macromolecules</i> , 1994 , 27, 6225-6228	5.5	265
905	Bulk heterojunction photovoltaic active layers via bilayer interdiffusion. <i>Nano Letters</i> , 2011 , 11, 2071-8	11.5	264
904	Overcoming Interfacial Interactions with Electric Fields. <i>Macromolecules</i> , 2000 , 33, 3250-3253	5.5	262
903	Improved cathode materials for microbial electrosynthesis. <i>Energy and Environmental Science</i> , 2013 , 6, 217-224	35.4	260
902	Block Copolymers under Cylindrical Confinement. <i>Macromolecules</i> , 2004 , 37, 5660-5664	5.5	257
901	Stabilizing liquid drops in nonequilibrium shapes by the interfacial jamming of nanoparticles. <i>Science</i> , 2013 , 342, 460-3	33.3	255
900	Enhanced mobility of confined polymers. <i>Nature Materials</i> , 2007 , 6, 961-5	27	254
899	Ultrathin cross-linked nanoparticle membranes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12690-1	16.4	253
898	Electrohydrodynamic instabilities in polymer films. <i>Europhysics Letters</i> , 2001 , 53, 518-524	1.6	251
897	Effect of Interfacial Interactions on the Glass Transition of Polymer Thin Films. <i>Macromolecules</i> , 2001 , 34, 5535-5539	5.5	250
896	Hierarchical structure formation and pattern replication induced by an electric field. <i>Nature Materials</i> , 2003 , 2, 48-52	27	244
895	Chain conformation in ultrathin polymer films. <i>Nature</i> , 1999 , 400, 146-149	50.4	242
894	Fulleropyrrolidine interlayers: tailoring electrodes to raise organic solar cell efficiency. <i>Science</i> , 2014 , 346, 441-4	33.3	238
893	Characterization of the morphology of solution-processed bulk heterojunction organic photovoltaics. <i>Progress in Polymer Science</i> , 2013 , 38, 1990-2052	29.6	237

892	Ordered Diblock Copolymer Films on Random Copolymer Brushes. <i>Macromolecules</i> , 1997 , 30, 6810-6813	5.5	237
891	Observed frustration in confined block copolymers. <i>Physical Review Letters</i> , 1994 , 72, 2899-2902	7.4	235
890	Solvent-Induced Ordering in Thin Film Diblock Copolymer/Homopolymer Mixtures. <i>Advanced Materials</i> , 2004 , 16, 2119-2123	24	234
889	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10. <i>Advanced Materials</i> , 2016 , 28, 10008-10015	24	234
888	11% Efficient Ternary Organic Solar Cells with High Composition Tolerance via Integrated Near-IR Sensitization and Interface Engineering. <i>Advanced Materials</i> , 2016 , 28, 8184-8190	24	227
887	Self-assembly and cross-linking of bionanoparticles at liquid-liquid interfaces. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2420-6	16.4	225
886	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small-Bandgap Electron Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1606574	24	224
885	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. <i>Advanced Materials</i> , 2016 , 28, 8288-8295	24	224
884	Interfacial Segregation in Disordered Block Copolymers: Effect of Tunable Surface Potentials. <i>Physical Review Letters</i> , 1997 , 79, 237-240	7.4	223
883	Nanoparticle assembly at fluid interfaces: structure and dynamics. <i>Langmuir</i> , 2005 , 21, 191-4	4	223
882	Entanglements at Polymer Surfaces and Interfaces. <i>Macromolecules</i> , 1996 , 29, 798-800	5.5	222
881	A Simple Route to Metal Nanodots and Nanoporous Metal Films. <i>Nano Letters</i> , 2002 , 2, 933-936	11.5	221
880	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4727-33	24	219
879	A Rapid Route to Arrays of Nanostructures in Thin Films. <i>Advanced Materials</i> , 2002 , 14, 1373-1376	24	217
878	Structural studies of semifluorinated n-alkanes. 1. Synthesis and characterization of F(CF ₂) _n (CH ₂) _m H in the solid state. <i>Macromolecules</i> , 1984 , 17, 2786-2794	5.5	213
877	Wetting Transition in Cylindrical Alumina Nanopores with Polymer Melts. <i>Nano Letters</i> , 2006 , 6, 1075-1079	11.5	210
876	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2018 , 30, 1704546	24	210
875	Highly aligned ultrahigh density arrays of conducting polymer nanorods using block copolymer templates. <i>Nano Letters</i> , 2008 , 8, 2315-20	11.5	207

874	Adsorption energy of nano- and microparticles at liquid-liquid interfaces. <i>Langmuir</i> , 2010 , 26, 12518-22	4	206
873	Kinetics of crystallization in semicrystalline/amorphous polymer mixtures. <i>Macromolecules</i> , 1986 , 19, 1143-1152	5.5	204
872	Small-angle x-ray and light scattering studies of the morphology of blends of poly(ϵ -caprolactone) with poly(vinyl chloride). <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1976 , 14, 1391-1424		204
871	The Crystallization of PEDOT:PSS Polymeric Electrodes Probed In Situ during Printing. <i>Advanced Materials</i> , 2015 , 27, 3391-7	24	203
870	"Self-corralling" nanorods under an applied electric field. <i>Nano Letters</i> , 2006 , 6, 2066-9	11.5	203
869	Efficient polymer solar cells based on a low bandgap semi-crystalline DPP polymer-PCBM blends. <i>Advanced Materials</i> , 2012 , 24, 3947-51	24	193
868	Surface-functionalized CdSe nanorods for assembly in diblock copolymer templates. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3898-9	16.4	189
867	Reconfigurable ferromagnetic liquid droplets. <i>Science</i> , 2019 , 365, 264-267	33.3	188
866	A simple route to highly oriented and ordered nanoporous block copolymer templates. <i>ACS Nano</i> , 2008 , 2, 766-72	16.7	188
865	Understanding the Morphology of PTB7:PCBM Blends in Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2014 , 4, 1301377	21.8	187
864	Microdomain Orientation of PS-b-PMMA by Controlled Interfacial Interactions. <i>Macromolecules</i> , 2008 , 41, 6431-6437	5.5	187
863	From Cylinders to Helices upon Confinement. <i>Macromolecules</i> , 2005 , 38, 1055-1056	5.5	184
862	One-Step Formation of Functionalized Block Copolymers. <i>Macromolecules</i> , 2000 , 33, 1505-1507	5.5	182
861	Morphological changes in polyesters and polyamides induced by blending with small concentrations of polymer diluents. <i>Macromolecules</i> , 1989 , 22, 666-675	5.5	179
860	Surface modification of tobacco mosaic virus with "click" chemistry. <i>ChemBioChem</i> , 2008 , 9, 519-23	3.8	176
859	Phase-Separation-Induced Surface Patterns in Thin Polymer Blend Films. <i>Macromolecules</i> , 1998 , 31, 857-862	3.8	176
858	Series of Multifluorine Substituted Oligomers for Organic Solar Cells with Efficiency over 9% and Fill Factor of 0.77 by Combination Thermal and Solvent Vapor Annealing. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7687-97	16.4	176
857	Synthesis of nano/microstructures at fluid interfaces. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10052-66	16.4	174

- 856 Electric field induced instabilities at liquid/liquid interfaces. *Journal of Chemical Physics*, **2001**, 114, 2377-2381 171
- 855 Well-Defined Random Copolymers by a Living-Free-Radical Polymerization Process. *Macromolecules*, **1996**, 29, 2686-2688 5.5 171
- 854 Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 10718-10724 24 170
- 853 A Route to Nanoscopic SiO₂ Posts via Block Copolymer Templates. *Advanced Materials*, **2001**, 13, 795-797 170
- 852 Block Copolymer Surface Reconstruction: A Reversible Route to Nanoporous Films. *Advanced Functional Materials*, **2003**, 13, 698-702 15.6 168
- 851 Neutron and x-ray scattering studies on semicrystalline polymer blends. *Macromolecules*, **1988**, 21, 1703-1709 167
- 850 A high mobility conjugated polymer based on dithienothiophene and diketopyrrolopyrrole for organic photovoltaics. *Energy and Environmental Science*, **2012**, 5, 6857 35.4 164
- 849 Multi-Length-Scale Morphologies in PCPDTBT/PCBM Bulk-Heterojunction Solar Cells. *Advanced Energy Materials*, **2012**, 2, 683-690 21.8 163
- 848 Cylindrically Confined Diblock Copolymers. *Macromolecules*, **2009**, 42, 9082-9088 5.5 163
- 847 Semi-crystalline random conjugated copolymers with panchromatic absorption for highly efficient polymer solar cells. *Energy and Environmental Science*, **2013**, 6, 3301 35.4 160
- 846 Ordering of thin diblock copolymer films. *Physical Review Letters*, **1992**, 68, 67-70 7.4 160
- 845 High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. *Advanced Functional Materials*, **2016**, 26, 3508-3514 15.6 159
- 844 Understanding Interface Engineering for High-Performance Fullerene/Perovskite Planar Heterojunction Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501606 21.8 156
- 843 A lower critical ordering transition in a diblock copolymer melt. *Nature*, **1994**, 368, 729-731 50.4 154
- 842 Long-Range Ordering of Diblock Copolymers Induced by Droplet Pinning. *Langmuir*, **2003**, 19, 9910-9913 151
- 841 Large-Area Domain Alignment in Block Copolymer Thin Films Using Electric Fields. *Macromolecules*, **1998**, 31, 4399-4401 5.5 149
- 840 Cellular responses to substrate topography: role of myosin II and focal adhesion kinase. *Biophysical Journal*, **2006**, 90, 3774-82 2.9 148
- 839 In-plane orientation of polyimide. *Journal of Polymer Science, Polymer Physics Edition*, **1983**, 21, 1745-1756 148

838	Structural characterization of semifluorinated n-alkanes. 2. Solid-solid transition behavior. <i>Macromolecules</i> , 1986 , 19, 1135-1143	5.5	148
837	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [Pbl] cage nanoparticles. <i>Nature Communications</i> , 2017 , 8, 15688	17.4	147
836	Interactions in mixtures of poly(ethylene oxide) and poly(methyl methacrylate). <i>Macromolecules</i> , 1987 , 20, 2213-2220	5.5	147
835	Structure Formation at the Interface of Liquid/Liquid Bilayer in Electric Field. <i>Macromolecules</i> , 2002 , 35, 3971-3976	5.5	146
834	Intercalibration of small-angle X-ray and neutron scattering data. <i>Journal of Applied Crystallography</i> , 1988 , 21, 629-638	3.8	146
833	Controlled placement of CdSe nanoparticles in diblock copolymer templates by electrophoretic deposition. <i>Nano Letters</i> , 2005 , 5, 357-61	11.5	145
832	Surface Relaxations in Polymers. <i>Macromolecules</i> , 1997 , 30, 7768-7771	5.5	144
831	Macromolecules at surfaces: Research challenges and opportunities from tribology to biology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 2755-2793	2.6	144
830	The influence of molecular weight on nanoporous polymer films. <i>Polymer</i> , 2001 , 42, 9091-9095	3.9	144
829	Facile Routes to Patterned Surface Neutralization Layers for Block Copolymer Lithography. <i>Advanced Materials</i> , 2007 , 19, 4552-4557	24	142
828	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Small-Molecule Bulk-Heterojunction Blends under Solvent Vapor Treatment. <i>Advanced Materials</i> , 2015 , 27, 6296-302	24	141
827	Highly Efficient Parallel-Like Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 2914-2920	9.6	140
826	Bistetracene: an air-stable, high-mobility organic semiconductor with extended conjugation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9248-51	16.4	140
825	Electric Field Alignment of Asymmetric Diblock Copolymer Thin Films. <i>Macromolecules</i> , 2005 , 38, 10788-10798	5.5	140
824	Segment distributions in lamellar diblock copolymers. <i>Macromolecules</i> , 1993 , 26, 3929-3936	5.5	140
823	Pathways toward Electric Field Induced Alignment of Block Copolymers. <i>Macromolecules</i> , 2002 , 35, 8106-8110	5.5	137
822	Directed self-assembly of block copolymers in the extreme: guiding microdomains from the small to the large. <i>Soft Matter</i> , 2013 , 9, 9059	3.6	135
821	Confinement Effects on Crystallization and Curie Transitions of Poly(vinylidene fluoride-co-trifluoroethylene). <i>Macromolecules</i> , 2010 , 43, 3844-3850	5.5	135

820	Solvent-Induced Transition from Micelles in Solution to Cylindrical Microdomains in Diblock Copolymer Thin Films. <i>Macromolecules</i> , 2007 , 40, 9059-9063	5.5	135
819	An in situ grazing incidence X-ray scattering study of block copolymer thin films during solvent vapor annealing. <i>Advanced Materials</i> , 2014 , 26, 273-81	24	133
818	Directed Deposition of Nanoparticles Using Diblock Copolymer Templates. <i>Advanced Materials</i> , 2003 , 15, 221-224	24	133
817	On the kinetics of nanoparticle self-assembly at liquid/liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 6351-8	3.6	132
816	Salt Complexation in Block Copolymer Thin Films. <i>Macromolecules</i> , 2006 , 39, 8473-8479	5.5	130
815	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 3009-3017	9.6	128
814	Graft Copolymers from Poly(vinylidene fluoride-co-chlorotrifluoroethylene) via Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2006 , 39, 3531-3539	5.5	128
813	Expansion of Polystyrene Using Supercritical Carbon Dioxide: Effects of Molecular Weight, Polydispersity, and Low Molecular Weight Components. <i>Macromolecules</i> , 1999 , 32, 7610-7616	5.5	128
812	Tailoring exchange bias with magnetic nanostructures. <i>Physical Review B</i> , 2001 , 63,	3.3	127
811	Enhancement in the Orientation of the Microdomain in Block Copolymer Thin Films upon the Addition of Homopolymer. <i>Advanced Materials</i> , 2004 , 16, 533-536	24	126
810	Defining the nanostructured morphology of triblock copolymers using resonant soft X-ray scattering. <i>Nano Letters</i> , 2011 , 11, 3906-11	11.5	124
809	Fabrication and Characterization of Nanoelectrode Arrays Formed via Block Copolymer Self-Assembly. <i>Langmuir</i> , 2001 , 17, 6396-6398	4	124
808	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5954-5966	15.6	123
807	Spontaneous Vertical Ordering and Pyrolytic Formation of Nanoscopic Ceramic Patterns from Poly(styrene-b-ferrocenylsilane). <i>Advanced Materials</i> , 2003 , 15, 297-300	24	123
806	The influence of confinement and curvature on the morphology of block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 3377-3383	2.6	123
805	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. <i>Energy and Environmental Science</i> , 2018 , 11, 3392-3399	35.4	122
804	Fluorination of Polythiophene Derivatives for High Performance Organic Photovoltaics. <i>Chemistry of Materials</i> , 2014 , 26, 4214-4220	9.6	122
803	Propagation of Nanopatterned Substrate Templated Ordering of Block Copolymers in Thick Films. <i>Macromolecules</i> , 2001 , 34, 1487-1492	5.5	122

802	P3HT nanopillars for organic photovoltaic devices nanoimprinted by AAO templates. <i>ACS Nano</i> , 2012 , 6, 1479-85	16.7	121
801	Solvent-Driven Evolution of Block Copolymer Morphology under 3D Confinement. <i>Macromolecules</i> , 2010 , 43, 7807-7812	5.5	121
800	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14290-4	3.6	120
799	Fabrication of Highly Ordered Silicon Oxide Dots and Stripes from Block Copolymer Thin Films. <i>Advanced Materials</i> , 2008 , 20, 681-685	24	120
798	NEXAFS Studies on the Surface Orientation of Buffed Polyimides. <i>Macromolecules</i> , 1996 , 29, 8334-8342	5.5	120
797	Synthesis and photophysical property of well-defined donor-acceptor diblock copolymer based on regioregular poly(3-hexylthiophene) and fullerene. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1483		119
796	Nanostructured magnetic thin films from organometallic block copolymers: pyrolysis of self-assembled polystyrene-block-poly(ferrocenylethylmethysilane). <i>ACS Nano</i> , 2008 , 2, 263-70	16.7	119
795	Instabilities in nanoporous media. <i>Nano Letters</i> , 2007 , 7, 183-7	11.5	119
794	Crosslinked Capsules of Quantum Dots by Interfacial Assembly and Ligand Crosslinking. <i>Advanced Materials</i> , 2005 , 17, 2082-2086	24	119
793	Controlling the location and spatial extent of nanobubbles using hydrophobically nanopatterned surfaces. <i>Nano Letters</i> , 2005 , 5, 1751-6	11.5	118
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