Thomas P Russell

List of Publications by Year in Descending Order

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	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances.. *Journal of the American Chemical Society*, **2022**,	16.4	11
962	Visualizing Assembly Dynamics of All-Liquid 3D Architectures (Small 6/2022). *Small*, **2022**, 18, 2270028	11	
961	Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquid-in-Liquid Printing. *Advanced Materials Interfaces*, **2022**, 9, 2101659	4.6	3
960	Visualizing Assembly Dynamics of All-Liquid 3D Architectures.. *Small*, **2022**, 18, e2105017	11	4
959	Analytical solution for large-deposit non-linear reactive flows in porous media. *Chemical Engineering Journal*, **2022**, 430, 132812	14.7	1
958	Interfacial Assembly of Graphene Oxide: From Super Elastic Interfaces to Liquid-in-Liquid Printing (Adv. Mater. Interfaces 6/2022). *Advanced Materials Interfaces*, **2022**, 9, 2270032	4.6	0
957	Reconfigurable structured liquids **2022**, 1, 100013		4
956	Zwitterionic Ammonium Sulfonate Polymers: Synthesis and Properties in Fluids.. *Macromolecular Rapid Communications*, **2021**, e2100678	4.8	1
955	Responsive Interfacial Assemblies Based on Charge-Transfer Interactions. *Angewandte Chemie - International Edition*, **2021**, 60, 26363-26367	16.4	5
954	Responsive Interfacial Assemblies Based on Charge-Transfer Interactions. *Angewandte Chemie*, **2021**, 133, 26567	3.6	4
953	Hysteresis-Free Nanoparticle-Reinforced Hydrogels. *Advanced Materials*, **2021**, e2108243	24	13
952	Layer-by-Layer Engineered All-Liquid Microfluidic Chips for Enzyme Immobilization. *Advanced Materials*, **2021**, e2105386	24	4
951	Shear-sensitive chain extension of dissolved poly(ethylene oxide) by aluminate ions. *Journal of Polymer Science*, **2021**, 59, 146-152	2.4	1
950	Interfacial Reaction Induced Disruption and Dissolution of Dynamic Polymer Networks. *Macromolecular Rapid Communications*, **2021**, 42, e2100023	4.8	1
949	Redox-Responsive, Reconfigurable All-Liquid Constructs. *Journal of the American Chemical Society*, **2021**, 143, 3719-3722	16.4	18
948	Visualizing Interfacial Jamming Using an Aggregation-Induced-Emission Molecular Reporter. *Angewandte Chemie*, **2021**, 133, 8776-8781	3.6	4
947	High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification. *Advanced Materials*, **2021**, 33, e2007177	24	52

946	Visualizing Interfacial Jamming Using an Aggregation-Induced-Emission Molecular Reporter. *Angewandte Chemie - International Edition*, **2021**, 60, 8694-8699	16.4	11
945	Near-complete depolymerization of polyesters with nano-dispersed enzymes. *Nature*, **2021**, 592, 558-563	50.4	37
944	Dielectric screening in perovskite photovoltaics. *Nature Communications*, **2021**, 12, 2479	17.4	22
943	Boltzmann's colloidal transport in porous media with velocity-dependent capture probability. *Physics of Fluids*, **2021**, 33, 053306	4.4	0
942	Interfacial stabilization for inverted perovskite solar cells with long-term stability. *Science Bulletin*, **2021**, 66, 991-1002	10.6	15
941	Organic Solar Cells: High-Efficiency Organic Photovoltaics using Eutectic Acceptor Fibrils to Achieve Current Amplification (Adv. Mater. 18/2021). *Advanced Materials*, **2021**, 33, 2170142	24	
940	Host□Guest Molecular Recognition at Liquid□liquid Interfaces. *Engineering*, **2021**, 7, 603-614	9.7	4
939	Gated Molecular Diffusion at Liquid-Liquid Interfaces. *Angewandte Chemie - International Edition*, **2021**, 60, 17394-17397	16.4	9
938	Gated Molecular Diffusion at Liquid□liquid Interfaces. *Angewandte Chemie*, **2021**, 133, 17534-17537	3.6	4
937	Molecular Brush Surfactants: Versatile Emulsifiers for Stabilizing and Structuring Liquids. *Angewandte Chemie - International Edition*, **2021**, 60, 19626-19630	16.4	7
936	Conductive Ionenes Promote Interfacial Self-Doping for Efficient Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 41810-41817	9.5	3
935	Characteristics of Non-Fullerene Acceptor-Based Organic Photovoltaic Active Layers Using X-ray Scattering and Solid-State NMR. *Journal of Physical Chemistry C*, **2021**, 125, 15863-15871	3.8	1
934	Unexpected Elasticity in Assemblies of Glassy Supra-Nanoparticle Clusters. *Angewandte Chemie*, **2021**, 133, 4944-4950	3.6	3
933	Bifunctional Bis-benzophenone as A Solid Additive for Non-Fullerene Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2008699	15.6	7
932	Unexpected Elasticity in Assemblies of Glassy Supra-Nanoparticle Clusters. *Angewandte Chemie - International Edition*, **2021**, 60, 4894-4900	16.4	12
931	Polymers with advanced architectures as emulsifiers for multi-functional emulsions. *Materials Chemistry Frontiers*, **2021**, 5, 1205-1220	7.8	3
930	Surfactant-Induced Interfacial Aggregation of Porphyrins for Structuring Color-Tunable Liquids. *Angewandte Chemie*, **2021**, 133, 2907-2912	3.6	3
929	Uncertainties associated with laboratory-based predictions of well index and formation damage. *Measurement: Journal of the International Measurement Confederation*, **2021**, 170, 108731	4.6	1

928	Dichlorinated Dithienylethene-Based Copolymers for Air-Stable n-Type Conductivity and Thermoelectricity. *Advanced Functional Materials*, **2021**, 31, 2005901	15.6	20
927	Surfactant-Induced Interfacial Aggregation of Porphyrins for Structuring Color-Tunable Liquids. *Angewandte Chemie - International Edition*, **2021**, 60, 2871-2876	16.4	7
926	Nanoparticle surfactants and structured liquids. *Colloid and Polymer Science*, **2021**, 299, 523-536	2.4	15
925	Buried Interfaces in Halide Perovskite Photovoltaics. *Advanced Materials*, **2021**, 33, e2006435	24	83
924	Manipulating the Crystallization Kinetics by Additive Engineering toward High-Efficient Photovoltaic Performance. *Advanced Functional Materials*, **2021**, 31, 2009103	15.6	7
923	Ferromagnetic liquid droplets with adjustable magnetic properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
922	Using Preformed Meisenheimer Complexes as Dopants for n-Type Organic Thermoelectrics with High Seebeck Coefficients and Power Factors. *Advanced Functional Materials*, **2021**, 31, 2010567	15.6	17
921	Solvent-Induced Assembly of Microbial Protein Nanowires into Superstructured Bundles. *Biomacromolecules*, **2021**, 22, 1305-1311	6.9	4
920	Nanomechanical and Chemical Mapping of the Structure and Interfacial Properties in Immiscible Ternary Polymer Systems. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 651	3.5	2
919	Molecular Brush Surfactants: Versatile Emulsifiers for Stabilizing and Structuring Liquids. *Angewandte Chemie*, **2021**, 133, 19778-19782	3.6	7
918	The Buckling Spectra of Nanoparticle Surfactant Assemblies. *Nano Letters*, **2021**, 21, 7116-7122	11.5	1
917	Biobased Dynamic Polymer Networks with Rapid Stress Relaxation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11091-11099	8.3	8
916	Imidazole-Functionalized Imide Interlayers for High Performance Organic Solar Cells. *ACS Energy Letters*, **2021**, 6, 3228-3235	20.1	14
915	Optimizing Vertical Crystallization for Efficient Perovskite Solar Cells by Buried Composite Layers. *Solar Rrl*, **2021**, 5, 2100457	7.1	3
914	3D effects in two-phase steady-state tests. *Journal of Petroleum Science and Engineering*, **2021**, 208, 109533	4.1	1
913	Single-layered organic photovoltaics with double cascading charge transport pathways: 18% efficiencies. *Nature Communications*, **2021**, 12, 309	17.4	302
912	Hydrolysis-Induced Self-Assembly of High-Low-N Bottlebrush Copolymers. *Macromolecules*, **2021**, 54, 11449-11458	5.5	1
911	Epoxy-polyhedral oligomeric silsesquioxanes (POSS) nanocomposite vitrimers with high strength, toughness, and efficient relaxation. *Giant*, **2020**, 4, 100035	5.6	11

910	Understanding Hole Extraction of Inverted Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 56068-56075	9.5	6
909	Surface and grain boundary carbon heterogeneity in CH3NH3PbI3 perovskites and its impact on optoelectronic properties. *Applied Physics Reviews*, **2020**, 7, 041412	17.3	3
908	Bimolecular crystal instability and morphology of bulk heterojunction blends in organic and perovskite solar cells. *Journal of Materials Chemistry C*, **2020**, 8, 11695-11703	7.1	1
907	Manipulating Film Morphology of All-Polymer Solar Cells by Incorporating Polymer Compatibilizer. *Solar Rrl*, **2020**, 4, 2000148	7.1	8
906	Polymer-Modified ZnO Nanoparticles as Electron Transport Layer for Polymer-Based Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2002932	15.6	26
905	Naphthalene-Diimide-Based Ionenes as Universal Interlayers for Efficient Organic Solar Cells. *Angewandte Chemie*, **2020**, 132, 18288-18292	3.6	4
904	Naphthalene-Diimide-Based Ionenes as Universal Interlayers for Efficient Organic Solar Cells. *Angewandte Chemie - International Edition*, **2020**, 59, 18131-18135	16.4	28
903	Rapid Multilevel Compartmentalization of Stable All-Aqueous Blastosomes by Interfacial Aqueous-Phase Separation. *ACS Nano*, **2020**, 14, 11215-11224	16.7	7
902	Hanging droplets from liquid surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8360-8365	11.5	13
901	Perspective: Ferromagnetic Liquids. *Materials*, **2020**, 13,	3.5	6
900	Low-Bandgap Porphyrins for Highly Efficient Organic Solar Cells: Materials, Morphology, and Applications. *Advanced Materials*, **2020**, 32, e1906129	24	78
899	Polymer design to promote low work function surfaces in organic electronics. *Progress in Polymer Science*, **2020**, 103, 101222	29.6	27
898	Interfacial Assembly and Jamming of Polyelectrolyte Surfactants: A Simple Route To Print Liquids in Low-Viscosity Solution. *ACS Applied Materials & Interfaces*, **2020**, 12, 18116-18122	9.5	28
897	Reconfigurable Liquids Stabilized by DNA Surfactants. *ACS Applied Materials & Interfaces*, **2020**, 12, 13551-13557	9.5	14
896	Janus MXene nanosheets for macroscopic assemblies. *Materials Chemistry Frontiers*, **2020**, 4, 910-917	7.8	26
895	Understanding the Morphology of High-Performance Solar Cells Based on a Low-Cost Polymer Donor. *ACS Applied Materials & Interfaces*, **2020**, 12, 9537-9544	9.5	12
894	Comparison of Fused-Ring Electron Acceptors with One- and Multidimensional Conformations. *ACS Applied Materials & Interfaces*, **2020**, 12, 23976-23983	9.5	7
893	Soft Polymer Janus Nanoparticles at Liquid-Liquid Interfaces. *Angewandte Chemie - International Edition*, **2020**, 59, 12751-12755	16.4	12

892	Low-Dimensional Contact Layers for Enhanced Perovskite Photodiodes. *Advanced Functional Materials*, **2020**, 30, 2001692	15.6	15
891	Soft Polymer Janus Nanoparticles at Liquid□Liquid Interfaces. *Angewandte Chemie*, **2020**, 132, 12851-12855	3.6	3
890	Size-Dependent Interfacial Assembly of Graphene Oxide at Water-Oil Interfaces. *Journal of Physical Chemistry B*, **2020**, 124, 4835-4842	3.4	2
889	Conformational Entropy as a Means to Control the Behavior of Poly(diketoenamine) Vitrimers In and Out of Equilibrium. *Angewandte Chemie - International Edition*, **2020**, 59, 735-739	16.4	30
888	In Situ Electron Microscopy of Poly(ethylene glycol) Crystals Grown in Thin Ionic Liquids Films. *Journal of Polymer Science*, **2020**, 58, 478-486	2.4	
887	Enhanced Charge Carrier Transport in 2D Perovskites by Incorporating Single-Walled Carbon Nanotubes or Graphene. *ACS Energy Letters*, **2020**, 5, 109-116	20.1	8
886	Unraveling the Crystallization Kinetics of 2D Perovskites with Sandwich-Type Structure for High-Performance Photovoltaics. *Advanced Materials*, **2020**, 32, e2002784	24	25
885	Improving Efficiency and Stability of Perovskite Solar Cells Enabled by A Near-Infrared-Absorbing Moisture Barrier. *Joule*, **2020**, 4, 1575-1593	27.8	46
884	Stabilizing Aqueous Three-Dimensional Printed Constructs Using Chitosan-Cellulose Nanocrystal Assemblies. *ACS Applied Materials & Interfaces*, **2020**, 12, 55426-55433	9.5	2
883	Direct observation of nanoparticle-surfactant assembly and jamming at the water-oil interface. *Science Advances*, **2020**, 6,	14.3	13
882	Butterfly Effects Arising from Starting Materials in Fused-Ring Electron Acceptors. *Journal of the American Chemical Society*, **2020**, 142, 20124-20133	16.4	45
881	Conductive Thin Films over Large Areas by Supramolecular Self-Assembly. *ACS Applied Materials & Interfaces*, **2020**,	9.5	1
880	Bidisperse Nanospheres Jammed on a Liquid Surface. *ACS Nano*, **2020**, 14, 10589-10599	16.7	1
879	The Next 100 Years of Polymer Science. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000216	2.6	36
878	Spontaneous emulsification induced by nanoparticle surfactants. *Journal of Chemical Physics*, **2020**, 153, 224705	3.9	4
877	Self-Assembly Behavior of PS-b-P2VP Block Copolymers and Carbon Quantum Dots at Water/Oil Interfaces. *Macromolecules*, **2020**, 53, 10981-10987	5.5	6
876	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. *Nano Energy*, **2020**, 67, 104189	17.1	49
875	Fullerene-Based Interlayers for Breaking Energy Barriers in Organic Solar Cells. *ChemPlusChem*, **2020**, 85, 751-759	2.8	5

874	Photoresponsive Structured Liquids Enabled by Molecular Recognition at Liquid-Liquid Interfaces. *Journal of the American Chemical Society*, **2020**, 142, 8591-8595	16.4	35
873	Stresses in thin sheets at fluid interfaces. *Nature Materials*, **2020**, 19, 690-693	27	7
872	Self-Assembly of MXene-Surfactants at Liquid□Liquid Interfaces: From Structured Liquids to 3D Aerogels. *Angewandte Chemie*, **2019**, 131, 18339-18344	3.6	8
871	Self-Assembly of MXene-Surfactants at Liquid-Liquid Interfaces: From Structured Liquids to 3D Aerogels. *Angewandte Chemie - International Edition*, **2019**, 58, 18171-18176	16.4	95
870	Configurationally Constrained Crystallization of Brush Polymers with Poly(ethylene oxide) Side Chains. *Macromolecules*, **2019**, 52, 592-600	5.5	15
869	Impact of Electron Energy and Dose on Particle Dynamics Imaging in the Scanning Electron Microscope. *Microscopy and Microanalysis*, **2019**, 25, 1670-1671	0.5	
868	Compartmentalized, All-Aqueous Flow-Through-Coordinated Reaction Systems. *CheM*, **2019**, 5, 2678-2690	16.2	26
867	Two-Step Chemical Transformation of Polystyrene-block-poly(solketal acrylate) Copolymers for Increasing □*Macromolecules*, **2019**, 52, 6458-6466	5.5	13
866	Mechanical Properties of Solidifying Assemblies of Nanoparticle Surfactants at the Oil-Water Interface. *Langmuir*, **2019**, 35, 13340-13350	4	11
865	High Short-Circuit Current Density via Integrating the Perovskite and Ternary Organic Bulk Heterojunction. *ACS Energy Letters*, **2019**, 4, 2535-2536	20.1	28
864	Vapor-induced motion of two pure liquid droplets. *Soft Matter*, **2019**, 15, 2135-2139	3.6	13
863	Synergistic Effects of Side-Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. *Solar Rrl*, **2019**, 3, 1900169	7.1	19
862	Interfacial Activity of Amine-Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. *Angewandte Chemie*, **2019**, 131, 10248-10253	3.6	7
861	Interfacial Activity of Amine-Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. *Angewandte Chemie - International Edition*, **2019**, 58, 10142-10147	16.4	16
860	Hall of Fame Article: Building Reconfigurable Devices Using Complex Liquid□Fluid Interfaces (Adv. Mater. 18/2019). *Advanced Materials*, **2019**, 31, 1970128	24	2
859	Morphological Evolution of Poly(solketal methacrylate)-block-polystyrene Copolymers in Thin Films. *Macromolecules*, **2019**, 52, 3592-3600	5.5	12
858	Nanorod□Surfactant Assemblies and Their Interfacial Behavior at Liquid□Liquid Interfaces. *ACS Macro Letters*, **2019**, 512-518	6.6	14
857	Transforming Ionene Polymers into Efficient Cathode Interlayers with Pendent Fullerenes. *Angewandte Chemie*, **2019**, 131, 5733-5737	3.6	2

856	Building Reconfigurable Devices Using Complex Liquid-Fluid Interfaces. *Advanced Materials*, **2019**, 31, e1806370	24	70
855	Contrasting Chemistry of Block Copolymer Films Controls the Dynamics of Protein Self-Assembly at the Nanoscale. *ACS Nano*, **2019**, 13, 4018-4027	16.7	10
854	Harnessing liquid-in-liquid printing and micropatterned substrates to fabricate 3-dimensional all-liquid fluidic devices. *Nature Communications*, **2019**, 10, 1095	17.4	55
853	Transforming Ionene Polymers into Efficient Cathode Interlayers with Pendent Fullerenes. *Angewandte Chemie - International Edition*, **2019**, 58, 5677-5681	16.4	15
852	One-Dimensional Anomalous Diffusion of Gold Nanoparticles in a Polymer Melt. *Physical Review Letters*, **2019**, 122, 107802	7.4	9
851	11.2% Efficiency all-polymer solar cells with high open-circuit voltage. *Science China Chemistry*, **2019**, 62, 845-850	7.9	114
850	In Situ Structure Characterization in Slot-Die-Printed All-Polymer Solar Cells with Efficiency Over 9%. *Solar Rrl*, **2019**, 3, 1900032	7.1	14
849	High-Performance Perovskite Solar Cells with a Non-doped Small Molecule Hole Transporting Layer. *ACS Applied Energy Materials*, **2019**, 2, 1634-1641	6.1	14
848	Poly(oxime-ester) Vitrimers with Catalyst-Free Bond Exchange. *Journal of the American Chemical Society*, **2019**, 141, 13753-13757	16.4	80
847	Reconfigurable ferromagnetic liquid droplets. *Science*, **2019**, 365, 264-267	33.3	188
846	Improving the efficiencies of small molecule solar cells by solvent vapor annealing to enhance J-aggregation. *Journal of Materials Chemistry C*, **2019**, 7, 9618-9624	7.1	9
845	Stabilizing Liquids Using Interfacial Supramolecular Polymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 12112-12116	16.4	17
844	Stabilizing Liquids Using Interfacial Supramolecular Polymerization. *Angewandte Chemie*, **2019**, 131, 12240-12244	3.6	3
843	Sculpting Liquids with Two-Dimensional Materials: The Assembly of TiCT MXene Sheets at Liquid-Liquid Interfaces. *ACS Nano*, **2019**, 13, 12385-12392	16.7	30
842	Using a Graphene-Polyelectrolyte Complex Reducing Agent To Promote Cracking in Single-Crystalline Gold Nanoplates. *ACS Applied Materials & Interfaces*, **2019**, 11, 41602-41610	9.5	4
841	Enhancing the Performance of a Fused-Ring Electron Acceptor by Unidirectional Extension. *Journal of the American Chemical Society*, **2019**, 141, 19023-19031	16.4	102
840	Probing the structural evolution in deformed isoprene rubber by in situ synchrotron X-ray diffraction and atomic force microscopy. *Polymer*, **2019**, 185, 121926	3.9	6
839	A randomized trial of a mercaptopurine (6MP) adherence-enhancing intervention in children with acute lymphoblastic leukemia (ALL): A COG ACCL1033 study.. *Journal of Clinical Oncology*, **2019**, 37, 10007-10007	2.2	3

838	Assessing Pair Interaction Potentials of Nanoparticles on Liquid Interfaces. *ACS Nano*, **2019**, 13, 3075-3082	13.7	9
837	Interfacial Broadening Kinetics between a Network and a Linear Polymer and Their Composites Prepared by Melt Blending. *Macromolecules*, **2019**, 52, 9759-9765	5.5	6
836	Orthogonally Aligned Block Copolymer Line Patterns on Minimal Topographic Patterns. *ACS Applied Materials & Interfaces*, **2018**, 10, 8324-8332	9.5	11
835	Reconfigurable Microfluidic Droplets Stabilized by Nanoparticle Surfactants. *ACS Nano*, **2018**, 12, 2365-2372	14.7	40
834	Evidence of tunable macroscopic polarization in perovskite films using photo-Kelvin Probe Force Microscopy. *Materials Letters*, **2018**, 217, 308-311	3.3	3
833	Wetting, meniscus structure, and capillary interactions of microspheres bound to a cylindrical liquid interface. *Soft Matter*, **2018**, 14, 2131-2141	3.6	1
832	Cellulose Nanocrystals: Liquid Letters (Adv. Mater. 9/2018). *Advanced Materials*, **2018**, 30, 1870057	24	1
831	Chemical and Morphological Control of Interfacial Self-Doping for Efficient Organic Electronics. *Advanced Materials*, **2018**, 30, e1705976	24	38
830	Interplay between Ion Transport, Applied Bias, and Degradation under Illumination in Hybrid Perovskite p-i-n Devices. *Journal of Physical Chemistry C*, **2018**, 122, 13986-13994	3.8	33
829	Energy-effectively printed all-polymer solar cells exceeding 8.61% efficiency. *Nano Energy*, **2018**, 46, 428-435	17.1	42
828	Bulk and Surface Morphologies of ABC Miktoarm Star Terpolymers Composed of PDMS, PI, and PMMA Arms. *Macromolecules*, **2018**, 51, 1041-1051	5.5	12
827	Wrapping with a splash: High-speed encapsulation with ultrathin sheets. *Science*, **2018**, 359, 775-778	33.3	37
826	Directed Self-Assembly of Asymmetric Block Copolymers in Thin Films Driven by Uniaxially Aligned Topographic Patterns. *ACS Nano*, **2018**, 12, 1642-1649	16.7	12
825	Conformation Locking on Fused-Ring Electron Acceptor for High-Performance Nonfullerene Organic Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1705095	15.6	88
824	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. *Advanced Energy Materials*, **2018**, 8, 1701942	21.8	81
823	Evaluation of the Interaction Parameter for Poly(solketal methacrylate)-block-polystyrene Copolymers. *Macromolecules*, **2018**, 51, 1031-1040	5.5	30
822	Morphological Behavior of A2B Block Copolymers in Thin Films. *Macromolecules*, **2018**, 51, 1181-1188	5.5	16
821	Tuning microdomain spacing with light using ortho-nitrobenzyl-linked triblock copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 355-361	2.6	1

820	Chemical Stabilization of Perovskite Solar Cells with Functional Fulleropyrrolidines. *ACS Central Science*, **2018**, 4, 216-222	16.8	10
819	An Unfused-Core-Based Nonfullerene Acceptor Enables High-Efficiency Organic Solar Cells with Excellent Morphological Stability at High Temperatures. *Advanced Materials*, **2018**, 30, 1705208	24	272
818	Liquid Letters. *Advanced Materials*, **2018**, 30, 1705800	24	61
817	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. *Science China Chemistry*, **2018**, 61, 531-537	7.9	302
816	Reconfigurable Printed Liquids. *Advanced Materials*, **2018**, 30, e1707603	24	89
815	The Interfacial Assembly of Polyoxometalate Nanoparticle Surfactants. *Nano Letters*, **2018**, 18, 2525-2529	11.5	27
814	Rational design of advanced elastomer nanocomposites towards extremely energy-saving tires based on macromolecular assembly strategy. *Nano Energy*, **2018**, 48, 180-188	17.1	36
813	Advances in Atomic Force Microscopy for Probing Polymer Structure and Properties. *Macromolecules*, **2018**, 51, 3-24	5.5	77
812	Reversible Surface Patterning by Dynamic Crosslink Gradients: Controlling Buckling in 2D. *Advanced Materials*, **2018**, 30, e1803463	24	24
811	Efficient and thermally stable all-polymer solar cells based on a fluorinated wide-bandgap polymer donor with high crystallinity. *Journal of Materials Chemistry A*, **2018**, 6, 16403-16411	13	23
810	Guiding kinetic trajectories between jammed and unjammed states in 2D colloidal nanocrystal-polymer assemblies with zwitterionic ligands. *Science Advances*, **2018**, 4, eaap8045	14.3	18
809	Nanoparticle Assembly at Liquid-Liquid Interfaces: From the Nanoscale to Mesoscale. *Advanced Materials*, **2018**, 30, e1800714	24	116
808	Ternary non-fullerene polymer solar cells with 13.51% efficiency and a record-high fill factor of 78.13%. *Energy and Environmental Science*, **2018**, 11, 3392-3399	35.4	122
807	Effects of delayed particle detachment on injectivity decline due to fines migration. *Journal of Hydrology*, **2018**, 564, 1099-1109	6	10
806	Confinement Effects on the Crystallization of Poly(3-hydroxybutyrate). *Macromolecules*, **2018**, 51, 5732-5741	5.5	25
805	A low-bandgap dimeric porphyrin molecule for 10% efficiency solar cells with small photon energy loss. *Journal of Materials Chemistry A*, **2018**, 6, 18469-18478	13	29
804	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. *Advanced Materials*, **2018**, 30, e1801801	24	299
803	Ternary polymer solar cells based-on two polymer donors with similar HOMO levels and an organic acceptor with absorption extending to 850 nm. *Organic Electronics*, **2018**, 62, 89-94	3.5	9

802	Thickness Dependence of the Young□ Modulus of Polymer Thin Films. *Macromolecules*, **2018**, 51, 6764-6770	5.5	24
801	High-efficiency quaternary polymer solar cells enabled with binary fullerene additives to reduce nonfullerene acceptor optical band gap and improve carriers transport. *Science China Chemistry*, **2018**, 61, 1609-1618	7.9	25
800	Adaptive Structured Pickering Emulsions and Porous Materials Based on Cellulose Nanocrystal Surfactants. *Angewandte Chemie*, **2018**, 130, 13748-13752	3.6	20
799	Adaptive Structured Pickering Emulsions and Porous Materials Based on Cellulose Nanocrystal Surfactants. *Angewandte Chemie - International Edition*, **2018**, 57, 13560-13564	16.4	56
798	Combining Fullerenes and Zwitterions in Non-Conjugated Polymer Interlayers to Raise Solar Cell Efficiency. *Angewandte Chemie - International Edition*, **2018**, 57, 9675-9678	16.4	31
797	Combining Fullerenes and Zwitterions in Non-Conjugated Polymer Interlayers to Raise Solar Cell Efficiency. *Angewandte Chemie*, **2018**, 130, 9823-9826	3.6	4
796	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. *Advanced Materials*, **2018**, 30, 1704546	24	210
795	Improved photocurrent and efficiency of non-fullerene organic solar cells despite higher charge recombination. *Journal of Materials Chemistry A*, **2018**, 6, 957-962	13	13
794	Overcoming the morphological and efficiency limit in all-polymer solar cells by designing conjugated random copolymers containing a naphtho[1,2-c:5,6-c?]bis([1,2,5]thiadiazole)] moiety. *Journal of Materials Chemistry A*, **2018**, 6, 23295-23300	13	9
793	Fabrication of sub-20 nm patterns using dopamine chemistry in self-aligned double patterning. *Nanoscale*, **2018**, 10, 20779-20784	7.7	6
792	Guided Assembly of Block Copolymers in Three-Dimensional Woodpile Scaffolds. *ACS Applied Materials & Interfaces*, **2018**, 10, 42933-42940	9.5	5
791	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. *Journal of Materials Chemistry A*, **2018**, 6, 24814-24822	13	14
790	On the morphological behavior of ABC miktoarm stars containing poly(cis 1,4-isoprene), poly(styrene), and poly(2-vinylpyridine). *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 1491-1504	2.6	3
789	Conductive Composite Materials Fabricated from Microbially Produced Protein Nanowires. *Small*, **2018**, 14, e1802624	11	22
788	Highly oriented and ordered microstructures in block copolymer films. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 1369-1375	2.6	3
787	Multiple Roles of a Non-fullerene Acceptor Contribute Synergistically for High-Efficiency Ternary Organic Photovoltaics. *Joule*, **2018**, 2, 2154-2166	27.8	66
786	Efficient Electron Mobility in an All-Acceptor Napthalenediimide-Bithiazole Polymer Semiconductor with Large Backbone Torsion. *ACS Applied Materials & Interfaces*, **2018**, 10, 40070-40077	9.5	12
785	Studies on the 3-Lamellar Morphology of Miktoarm Terpolymers. *Macromolecules*, **2018**, 51, 7491-7499	5.5	9

784	Phenylene-bridged perylenediimide-porphyrin acceptors for non-fullerene organic solar cells. *Sustainable Energy and Fuels*, **2018**, 2, 2616-2624	5.8	20
783	AFM nanomechanical mapping and nanothermal analysis reveal enhanced crystallization at the surface of a semicrystalline polymer. *Polymer*, **2018**, 146, 188-195	3.9	15
782	Atomic Force Microscopy Nanomechanical Mapping Visualizes Interfacial Broadening between Networks Due to Chemical Exchange Reactions. *Journal of the American Chemical Society*, **2018**, 140, 6793-6796	16.4	35
781	Applying the heteroatom effect of chalcogen for high-performance small-molecule solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 3425-3433	13	13
780	1,3-Bis(thieno[3,4-b]thiophen-6-yl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione-Based Small-Molecule Donor for Efficient Solution-Processed Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 6213-6219	9.5	19
779	High Efficiency Ternary Nonfullerene Polymer Solar Cells with Two Polymer Donors and an Organic Semiconductor Acceptor. *Advanced Energy Materials*, **2017**, 7, 1602215	21.8	86
778	Highly Efficient Parallel-Like Ternary Organic Solar Cells. *Chemistry of Materials*, **2017**, 29, 2914-2920	9.6	140
777	Pendant Chain Effect on the Synthesis, Characterization, and Structure–Property Relations of Poly(di-n-alkyl itaconate-co-isoprene) Biobased Elastomers. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5214-5223	8.3	15
776	Three-dimensional hierarchical metal oxide–carbon electrode materials for highly efficient microbial electrosynthesis. *Sustainable Energy and Fuels*, **2017**, 1, 1171-1176	5.8	42
775	Orientation transitions during the growth of imine covalent organic framework thin films. *Journal of Materials Chemistry C*, **2017**, 5, 5090-5095	7.1	26
774	Low band-gap conjugated polymer based on diketopyrrolopyrrole units and its application in organic photovoltaic cells. *Journal of Materials Chemistry A*, **2017**, 5, 10416-10423	13	21
773	50th Anniversary Perspective: Putting the Squeeze on Polymers: A Perspective on Polymer Thin Films and Interfaces. *Macromolecules*, **2017**, 50, 4597-4609	5.5	51
772	Efficient and 1,8-diiodooctane-free ternary organic solar cells fabricated via nanoscale morphology tuning using small-molecule dye additive. *Nano Research*, **2017**, 10, 3765-3774	10	18
771	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI] cage nanoparticles. *Nature Communications*, **2017**, 8, 15688	17.4	147
770	Fabrication of compact and stable perovskite films with optimized precursor composition in the fast-growing procedure. *Science China Materials*, **2017**, 60, 608-616	7.1	11
769	Small-Molecule Solar Cells with Simultaneously Enhanced Short-Circuit Current and Fill Factor to Achieve 11% Efficiency. *Advanced Materials*, **2017**, 29, 1700616	24	79
768	Applying Thienyl Side Chains and Different π-Bridge to Aromatic Side-Chain Substituted Indacenodithiophene-Based Small Molecule Donors for High-Performance Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 19998-20009	9.5	9
767	Using block copolymer architecture to achieve sub-10-nm periods. *Polymer*, **2017**, 121, 297-303	3.9	25

766	Effect of Nanoparticle Surfactants on the Breakup of Free-Falling Water Jets during Continuous Processing of Reconfigurable Structured Liquid Droplets. *Nano Letters*, **2017**, 17, 3119-3125	11.5	33
765	Geometry-Driven Folding of a Floating Annular Sheet. *Physical Review Letters*, **2017**, 118, 048004	7.4	20
764	In situ grazing incidence small-angle X-ray scattering study of solvent vapor annealing in lamellae-forming block copolymer thin films: Trade-off of defects in deswelling. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 980-989	2.6	7
763	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small-Bandgap Electron Acceptor. *Advanced Materials*, **2017**, 29, 1606574	24	224
762	Head-to-Head Linkage Containing Dialkoxybithiophene-Based Polymeric Semiconductors for Polymer Solar Cells with Large Open-Circuit Voltages. *Macromolecules*, **2017**, 50, 137-150	5.5	27
761	26 mA cm□ Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. *Science Bulletin* , **2017**, 62, 1494-1496	10.6	316
760	Insertion of double bond □bridges of A□□A acceptors for high performance near-infrared polymer solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 22588-22597	13	50
759	Donor-Acceptor Conjugated Macrocycles: Synthesis and Host-Guest Coassembly with Fullerene toward Photovoltaic Application. *ACS Nano*, **2017**, 11, 11701-11713	16.7	44
758	Bicontinuous structured liquids with sub-micrometre domains using nanoparticle surfactants. *Nature Nanotechnology*, **2017**, 12, 1060-1063	28.7	94
757	Macroscopically ordered hexagonal arrays by directed self-assembly of block copolymers with minimal topographic patterns. *Nanoscale*, **2017**, 9, 14888-14896	7.7	13
756	Transition in Dynamics as Nanoparticles Jam at the Liquid/Liquid Interface. *Nano Letters*, **2017**, 17, 6855-6862	11.5	21
755	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. *Solar Rrl*, **2017**, 1, 1700107	7.1	41
754	Carboxylated Fullerene at the Oil/Water Interface. *ACS Applied Materials & Interfaces*, **2017**, 9, 34389-34395	9.5	25
753	Fine-Tuning Nanoparticle Packing at Water-Oil Interfaces Using Ionic Strength. *Nano Letters*, **2017**, 17, 6453-6457	11.5	63
752	Interfacial Assembly and Jamming Behavior of Polymeric Janus Particles at Liquid Interfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 33327-33332	9.5	42
751	Realizing 5.4 nm Full Pitch Lamellar Microdomains by a Solid-State Transformation. *Macromolecules*, **2017**, 50, 7148-7154	5.5	44
750	Self-Regulated Nanoparticle Assembly at Liquid/Liquid Interfaces: A Route to Adaptive Structuring of Liquids. *Langmuir*, **2017**, 33, 7994-8001	4	38
749	Circumventing UV Light Induced Nanomorphology Disorder to Achieve Long Lifetime PTB7-Th:PCBM Based Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1701201	21.8	54

748	Printing Fabrication of Bulk Heterojunction Solar Cells and In Situ Morphology Characterization. *Journal of Visualized Experiments*, **2017**,	1.6	1
747	Role of Ionic Functional Groups on Ion Transport at Perovskite Interfaces. *Advanced Energy Materials*, **2017**, 7, 1701235	21.8	27
746	Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. *Angewandte Chemie - International Edition*, **2017**, 56, 12594-12598	16.4	54
745	Approaching Intra- and Interchain Charge Transport of Conjugated Polymers Facilely by Topochemical Polymerized Single Crystals. *Advanced Materials*, **2017**, 29, 1701251	24	84
744	Ternary Solar Cells Based on Two Small Molecule Donors with Same Conjugated Backbone: The Role of Good Miscibility and Hole Relay Process. *ACS Applied Materials & Interfaces*, **2017**, 9, 29917-29923	9.5	38
743	Coassembly Kinetics of Graphene Oxide and Block Copolymers at the Water/Oil Interface. *Langmuir* , **2017**, 33, 8961-8969	4	17
742	Nanomechanical Imaging of the Diffusion of Fullerene into Conjugated Polymer. *ACS Nano*, **2017**, 11, 8660-8667	16.7	20
741	Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. *Angewandte Chemie*, **2017**, 129, 12768-12772	3.6	38
740	3D Structural Model of High-Performance Non-Fullerene Polymer Solar Cells as Revealed by High-Resolution AFM. *ACS Applied Materials & Interfaces*, **2017**, 9, 24451-24455	9.5	1
739	Toward High Efficiency Polymer Solar Cells: Influence of Local Chemical Environment and Morphology. *Advanced Energy Materials*, **2017**, 7, 1601081	21.8	40
738	Nonfullerene Small Molecular Acceptors with a Three-Dimensional (3D) Structure for Organic Solar Cells. *Chemistry of Materials*, **2016**, 28, 6770-6778	9.6	52
737	A Polymer Hole Extraction Layer for Inverted Perovskite Solar Cells from Aqueous Solutions. *Advanced Energy Materials*, **2016**, 6, 1600664	21.8	46
736	Directed Self-Assembly of Block Copolymer Thin Films Using Minimal Topographic Patterns. *ACS Nano*, **2016**, 10, 7915-25	16.7	32
735	High-Efficiency Nonfullerene Polymer Solar Cells with Medium Bandgap Polymer Donor and Narrow Bandgap Organic Semiconductor Acceptor. *Advanced Materials*, **2016**, 28, 8288-8295	24	224
734	11% Efficient Ternary Organic Solar Cells with High Composition Tolerance via Integrated Near-IR Sensitization and Interface Engineering. *Advanced Materials*, **2016**, 28, 8184-8190	24	227
733	Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 10718-10724	24	170
732	Conjugated Polymer Zwitterions: Efficient Interlayer Materials in Organic Electronics. *Accounts of Chemical Research*, **2016**, 49, 2478-2488	24.3	83
731	Efficient Naphthalenediimide-Based Hole Semiconducting Polymer with Vinylene Linkers between Donor and Acceptor Units. *Chemistry of Materials*, **2016**, 28, 8580-8590	9.6	41

730	New insight of molecular interaction, crystallization and phase separation in higher performance small molecular solar cells via solvent vapor annealing. *Nano Energy*, **2016**, 30, 639-648	17.1	58
729	An electron-rich 2-alkylthieno[3,4-b]thiophene building block with excellent electronic and morphological tunability for high-performance small-molecule solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 17354-17362	13	32
728	Organic Solar Cells: Multi-Length Scaled Silver Nanowire Grid for Application in Efficient Organic Solar Cells (Adv. Funct. Mater. 27/2016). *Advanced Functional Materials*, **2016**, 26, 4806-4806	15.6	3
727	A simple small molecule as an acceptor for fullerene-free organic solar cells with efficiency near 8%. *Journal of Materials Chemistry A*, **2016**, 4, 10409-10413	13	96
726	Tuning charge transport from unipolar (n-type) to ambipolar in bis(naphthalene diimide) derivatives by introducing □conjugated heterocyclic bridging moieties. *Journal of Materials Chemistry C*, **2016**, 4, 7230-7240	7.1	20
725	Self-assembly of nanomaterials at fluid interfaces. *European Physical Journal E*, **2016**, 39, 57	1.5	52
724	Measuring the Degree of Crystallinity in Semicrystalline Regioregular Poly(3-hexylthiophene). *Macromolecules*, **2016**, 49, 4501-4509	5.5	69
723	A simple perylene diimide derivative with a highly twisted geometry as an electron acceptor for efficient organic solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 10659-10665	13	97
722	Nanomechanical Mapping of a Deformed Elastomer: Visualizing a Self-Reinforcement Mechanism. *ACS Macro Letters*, **2016**, 5, 839-843	6.6	19
721	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
720	Curvature-induced stiffness and the spatial variation of wavelength in wrinkled sheets. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1144-9	11.5	62
719	Solution-processed bulk heterojunction solar cells based on porphyrin small molecules with very low energy losses comparable to perovskite solar cells and high quantum efficiencies. *Journal of Materials Chemistry C*, **2016**, 4, 3843-3850	7.1	34
718	Simultaneous Thermoelectric Property Measurement and Incoherent Phonon Transport in Holey Silicon. *ACS Nano*, **2016**, 10, 124-32	16.7	81
717	Hydrophilic Conjugated Polymers Prepared by Aqueous Horner□Wadsworth□Emmons Coupling. *Macromolecules*, **2016**, 49, 2526-2532	5.5	18
716	High Efficiency Tandem Thin-Perovskite/Polymer Solar Cells with a Graded Recombination Layer. *ACS Applied Materials & Interfaces*, **2016**, 8, 7070-6	9.5	94
715	A non-fullerene electron acceptor modified by thiophene-2-carbonitrile for solution-processed organic solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3777-3783	13	67
714	Multicenter Implementation of a Treatment Bundle for Patients with Sepsis and Intermediate Lactate Values. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 193, 1264-70	10.2	76
713	Alkylthio substituted thiophene modified benzodithiophene-based highly efficient photovoltaic small molecules. *Organic Electronics*, **2016**, 28, 263-268	3.5	11

712	Fullerene-free small molecule organic solar cells with a high open circuit voltage of 1.15 V. *Chemical Communications*, **2016**, 52, 465-8	5.8	69
711	Multi-Length Scaled Silver Nanowire Grid for Application in Efficient Organic Solar Cells. *Advanced Functional Materials*, **2016**, 26, 4822-4828	15.6	42
710	Mesoporous PbI2 Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501890	21.8	102
709	The Static Structure and Dynamics of Cadmium Sulfide Nanoparticles within Poly(styrene-block-isoprene) Diblock Copolymer Melts. *Macromolecular Chemistry and Physics*, **2016** , 217, 591-598	2.6	3
708	Understanding Interface Engineering for High-Performance Fullerene/Perovskite Planar Heterojunction Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501606	21.8	156
707	An in situ GISAXS study of selective solvent vapor annealing in thin block copolymer films: Symmetry breaking of in-plane sphere order upon deswelling. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 331-338	2.6	36
706	Structured Liquids with pH-Triggered Reconfigurability. *Advanced Materials*, **2016**, 28, 6612-8	24	61
705	Evaluation of Small Molecules as Front Cell Donor Materials for High-Efficiency Tandem Solar Cells. *Advanced Materials*, **2016**, 28, 7008-12	24	41
704	Perovskite Solar Cells: High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18% (Adv. Funct. Mater. 20/2016). *Advanced Functional Materials*, **2016**, 26, 3551-3551	15.6	6
703	Multi-Length-Scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. *Advanced Materials*, **2016**, 28, 4727-33	24	219
702	Reaction: Polymer Chemistries Enabling Cradle-to-Cradle Life Cycles for Plastics. *CheM*, **2016**, 1, 816-818	16.2	24
701	All polymer solar cells with diketopyrrolopyrrole-polymers as electron donor and a naphthalenediimide-polymer as electron acceptor. *RSC Advances*, **2016**, 6, 35677-35683	3.7	20
700	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. *Journal of the American Chemical Society*, **2016**, 138, 7687-97	16.4	176
699	Following the Morphology Formation In Situ in Printed Active Layers for Organic Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501580	21.8	72
698	Systematic Fluorination of P3HT: Synthesis of P(3HT-co-3H4FT)s by Direct Arylation Polymerization, Characterization, and Device Performance in OPVs. *Macromolecules*, **2016**, 49, 3028-3037	5.5	25
697	Organic Solar Cells: Following the Morphology Formation In Situ in Printed Active Layers for Organic Solar Cells (Adv. Energy Mater. 1/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	1
696	Synthesis of fluorinated diphenyl-diketopyrrolopyrrole derivatives as new building blocks for conjugated copolymers. *Polymer Chemistry*, **2016**, 7, 3311-3324	4.9	16
695	Controlling Domain Spacing and Grain Size in Cylindrical Block Copolymer Thin Films by Means of Thermal and Solvent Vapor Annealing. *Macromolecules*, **2016**, 49, 3373-3381	5.5	55

694	Visualizing the Dynamics of Nanoparticles in Liquids by Scanning Electron Microscopy. *ACS Nano*, **2016**, 10, 6257-64	16.7	19
693	Ternary Organic Solar Cells Based on Two Compatible Nonfullerene Acceptors with Power Conversion Efficiency >10. *Advanced Materials*, **2016**, 28, 10008-10015	24	234
692	Interfacial rheology of polymer/carbon nanotube films co-assembled at the oil/water interface. *Soft Matter*, **2016**, 12, 8701-8709	3.6	13
691	High performance bio-based elastomers: energy efficient and sustainable materials for tires. *Journal of Materials Chemistry A*, **2016**, 4, 13058-13062	13	39
690	High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4-]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63. *Advanced Science*, **2016**, 3, 1600032	13.6	57
689	High-Performance Non-Fullerene Organic Solar Cells Based on a Selenium-Containing Polymer Donor and a Twisted Perylene Bisimide Acceptor. *Advanced Science*, **2016**, 3, 1600117	13.6	72
688	Solid particles adsorbed on capillary-bridge-shaped fluid polystyrene surfaces. *Langmuir*, **2015**, 31, 5299-305	4	2
687	A Small Molecule Composed of Dithienopyran and Diketopyrrolopyrrole as Versatile Electron Donor Compatible with Both Fullerene and Nonfullerene Electron Acceptors for High Performance Organic Solar Cells. *Chemistry of Materials*, **2015**, 27, 4865-4870	9.6	64
686	Using Janus Nanoparticles To Trap Polymer Blend Morphologies during Solvent-Evaporation-Induced Demixing. *Macromolecules*, **2015**, 48, 4220-4227	5.5	61
685	NDI-Based Small Molecule as Promising Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. *Advanced Energy Materials*, **2015**, 5, 1500195	21.8	91
684	The Crystallization of PEDOT:PSS Polymeric Electrodes Probed In Situ during Printing. *Advanced Materials*, **2015**, 27, 3391-7	24	203
683	Donor-Acceptor Copolymers Based on Thermally Cleavable Indigo, Isoindigo, and DPP Units: Synthesis, Field Effect Transistors, and Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 9038-51	9.5	57
682	Ethynylene-linked benzo[1,2-b:4,5-b?]dithiophene-alt-diketopyrrolopyrrole alternating copolymer: optoelectronic properties, film morphology and photovoltaic applications. *Journal of Materials Chemistry A*, **2015**, 3, 12972-12981	13	17
681	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71. *Advanced Materials*, **2015**, 27, 3310-7	24	400
680	Indentation of ultrathin elastic films and the emergence of asymptotic isometry. *Physical Review Letters*, **2015**, 114, 014301	7.4	42
679	A series of simple oligomer-like small molecules based on oligothiophenes for solution-processed solar cells with high efficiency. *Journal of the American Chemical Society*, **2015**, 137, 3886-93	16.4	722
678	Anthracene-Based Medium Bandgap Conjugated Polymers for High Performance Polymer Solar Cells Exceeding 8% PCE Without Additive and Annealing Process. *Advanced Energy Materials*, **2015**, 5, 1500065	21.8	53
677	Kinetics of Ion Transport in Perovskite Active Layers and Its Implications for Active Layer Stability. *Journal of the American Chemical Society*, **2015**, 137, 13130-7	16.4	308

676	Large active layer thickness toleration of high-efficiency small molecule solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 22274-22279	13	18
675	High-Efficiency Small Molecule-Based Bulk-Heterojunction Solar Cells Enhanced by Additive Annealing. *ACS Applied Materials & Interfaces*, **2015**, 7, 21495-502	9.5	35
674	Electronic and Morphological Studies of Conjugated Polymers Incorporating a Disk-Shaped Polycyclic Aromatic Hydrocarbon Unit. *ACS Applied Materials & Interfaces*, **2015**, 7, 20034-45	9.5	8
673	Simultaneous spin-coating and solvent annealing: manipulating the active layer morphology to a power conversion efficiency of 9.6% in polymer solar cells. *Materials Horizons*, **2015**, 2, 592-597	14.4	31
672	A solution-processed high performance organic solar cell using a small molecule with the thieno[3,2-b]thiophene central unit. *Chemical Communications*, **2015**, 51, 15268-71	5.8	40
671	Optimal wrapping of liquid droplets with ultrathin sheets. *Nature Materials*, **2015**, 14, 1206-9	27	53
670	Systematic Variation of Fluorinated Diketopyrrolopyrrole Low Bandgap Conjugated Polymers: Synthesis by Direct Arylation Polymerization and Characterization and Performance in Organic Photovoltaics and Organic Field-Effect Transistors. *Macromolecules*, **2015**, 48, 6978-6986	5.5	42
669	Small Molecules Based on Alkyl/Alkylthio-thieno[3,2-b]thiophene-Substituted Benzo[1,2-b:4,5-b?]dithiophene for Solution-Processed Solar Cells with High Performance. *Chemistry of Materials*, **2015**, 27, 8414-8423	9.6	63
668	Fast printing and in situ morphology observation of organic photovoltaics using slot-die coating. *Advanced Materials*, **2015**, 27, 886-91	24	99
667	Sequential deposition: optimization of solvent swelling for high-performance polymer solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 653-61	9.5	40
666	Effect of Pendant Functionality in Thieno[3,4-b]thiophene-alt-benzodithiophene Polymers for OPVs. *Chemistry of Materials*, **2015**, 27, 443-449	9.6	18
665	Tuning the energy gap of conjugated polymer zwitterions for efficient interlayers and solar cells. *Journal of Polymer Science Part A*, **2015**, 53, 327-336	2.5	16
664	Small-molecule solar cells with efficiency over 9%. *Nature Photonics*, **2015**, 9, 35-41	33.9	701
663	Comparison of Two D-A Type Polymers with Each Being Fluorinated on D and A Unit for High Performance Solar Cells. *Advanced Functional Materials*, **2015**, 25, 120-125	15.6	99
662	MRS Communications, Polymers and Soft Matter special issue, Part A The functionality of polymers: fundamentals to technology. *MRS Communications*, **2015**, 5, 95-95	2.7	2
661	Morphology Evolution in High-Performance Polymer Solar Cells Processed from Nonhalogenated Solvent. *Advanced Science*, **2015**, 2, 1500095	13.6	56
660	Selective Laser Ablation in Resists and Block Copolymers for High Resolution Lithographic Patterning. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2015**, 28, 663-668	0.7	3
659	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Small-Molecule Bulk-Heterojunction Blends under Solvent Vapor Treatment. *Advanced Materials*, **2015**, 27, 6296-302	24	141

658	Finely Tuned Polymer Interlayers Enhance Solar Cell Efficiency. *Angewandte Chemie*, **2015**, 127, 11647-11651	3.6	9
657	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. *Advanced Functional Materials*, **2015**, 25, 5954-5966	15.6	123
656	Finely Tuned Polymer Interlayers Enhance Solar Cell Efficiency. *Angewandte Chemie - International Edition*, **2015**, 54, 11485-9	16.4	93
655	Directed Self-Assembly of Poly(2-vinylpyridine)-b-polystyrene-b-poly(2-vinylpyridine) Triblock Copolymer with Sub-15 nm Spacing Line Patterns Using a Nanoimprinted Photoresist Template. *Advanced Materials*, **2015**, 27, 4364-70	24	46
654	Dual Functional Zwitterionic Fullerene Interlayer for Efficient Inverted Polymer Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500405	21.8	34
653	Optimizing Light-Harvesting Polymers via Side Chain Engineering. *Advanced Functional Materials*, **2015**, 25, 6458-6469	15.6	32
652	Medium Bandgap Conjugated Polymer for High Performance Polymer Solar Cells Exceeding 9% Power Conversion Efficiency. *Advanced Materials*, **2015**, 27, 7462-8	24	73
651	Observation of dynamical heterogeneities and their time evolution on the surface of an amorphous polymer. *Soft Matter*, **2015**, 11, 1425-33	3.6	21
650	Nanoscale structure and superhydrophobicity of sp(2)-bonded boron nitride aerogels. *Nanoscale*, **2015**, 7, 10449-58	7.7	32
649	Highly Crystalline Low Band Gap Polymer Based on Thieno[3,4-c]pyrrole-4,6-dione for High-Performance Polymer Solar Cells with a >400 nm Thick Active Layer. *ACS Applied Materials & Interfaces*, **2015**, 7, 13666-74	9.5	39
648	Enhanced crystalline morphology of a ladder-type polymer bulk-heterojunction device by blade-coating. *Nanoscale*, **2015**, 7, 10936-9	7.7	9
647	Deep absorbing porphyrin small molecule for high-performance organic solar cells with very low energy losses. *Journal of the American Chemical Society*, **2015**, 137, 7282-5	16.4	396
646	Single-junction polymer solar cells with high efficiency and photovoltage. *Nature Photonics*, **2015**, 9, 174-179	33.9	1495
645	Understanding the Morphology of PTB7:PCBM Blends in Organic Photovoltaics. *Advanced Energy Materials*, **2014**, 4, 1301377	21.8	187
644	Bistetracene: an air-stable, high-mobility organic semiconductor with extended conjugation. *Journal of the American Chemical Society*, **2014**, 136, 9248-51	16.4	140
643	A novel complementary absorbing donor–acceptor pair in block copolymers based on single material organic photovoltaics. *Journal of Materials Chemistry A*, **2014**, 2, 2993-2998	13	15
642	Solvent-Assisted Orientation of Poly(3-hexylthiophene)-Functionalized CdSe Nanorods Under an Electric Field. *Macromolecular Chemistry and Physics*, **2014**, 215, 1647-1653	2.6	9
641	Molecular weight dependence of the morphology in P3HT:PCBM solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 19876-87	9.5	85

640	Interpenetrating morphology based on highly crystalline small molecule and PCBM blends. *Journal of Materials Chemistry C*, **2014**, 2, 9368-9374	7.1	6
639	Robust polythiophene nanowires cross-linked with functional fullerenes. *Journal of Materials Chemistry C*, **2014**, 2, 9674-9682	7.1	5
638	Rapid, facile synthesis of conjugated polymer zwitterions in ionic liquids. *Chemical Science*, **2014**, 5, 2368-2373	9.4	15
637	Multi-Length Scale Porous Polymers. *Advanced Functional Materials*, **2014**, 24, 1483-1489	15.6	24
636	Chain Length Dependence of the Photovoltaic Properties of Monodisperse Donor–Acceptor Oligomers as Model Compounds of Polydisperse Low Band Gap Polymers. *Advanced Functional Materials*, **2014**, 24, 7538-7547	15.6	49
635	Crystallinity and morphology effects on a solvent-processed solar cell using a triarylamine-substituted squaraine. *ACS Applied Materials & Interfaces*, **2014**, 6, 11376-84	9.5	15
634	Reversible, self cross-linking nanowires from thiol-functionalized polythiophene diblock copolymers. *ACS Applied Materials & Interfaces*, **2014**, 6, 7705-11	9.5	17
633	Azulene methacrylate polymers: synthesis, electronic properties, and solar cell fabrication. *Journal of the American Chemical Society*, **2014**, 136, 11043-9	16.4	81
632	Preparation of Low Band Gap Fibrillar Structures by Solvent-Induced Crystallization. *ACS Macro Letters*, **2014**, 3, 30-34	6.6	22
631	Dynamics of Cadmium Sulfide Nanoparticles within Polystyrene Melts. *Macromolecules*, **2014**, 47, 6483-6490	5.5	17
630	Multiscale active layer morphologies for organic photovoltaics through self-assembly of nanospheres. *Nano Letters*, **2014**, 14, 5238-43	11.5	45
629	New form of an old natural dye: bay-annulated indigo (BAI) as an excellent electron accepting unit for high performance organic semiconductors. *Journal of the American Chemical Society*, **2014**, 136, 15093-101	16.4	104
628	Guided crystallization of P3HT in ternary blend solar cell based on P3HT:PCPDTBT:PCBM. *Energy and Environmental Science*, **2014**, 7, 3782-3790	35.4	56
627	Fulleropyrrolidine interlayers: tailoring electrodes to raise organic solar cell efficiency. *Science*, **2014**, 346, 441-4	33.3	238
626	Solvent vapor annealing of block copolymer thin films: removal of processing history. *Colloid and Polymer Science*, **2014**, 292, 1795-1802	2.4	18
625	Visualization and Quantification of the Chemical and Physical Properties at a Diffusion-Induced Interface Using AFM Nanomechanical Mapping. *Macromolecules*, **2014**, 47, 3761-3765	5.5	29
624	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. *Chemistry of Materials*, **2014**, 26, 3009-3017	9.6	128
623	Fluorination of Polythiophene Derivatives for High Performance Organic Photovoltaics. *Chemistry of Materials*, **2014**, 26, 4214-4220	9.6	122

622	Assembly of acid-functionalized single-walled carbon nanotubes at oil/water interfaces. *Langmuir*, **2014**, 30, 1072-9	4	40
621	New insights into morphology of high performance BHJ photovoltaics revealed by high resolution AFM. *Nano Letters*, **2014**, 14, 5727-32	11.5	44
620	Dynamic study of polystyrene-block-poly(4-vinylpyridine) copolymer in bulk and confined in cylindrical nanopores. *Polymer*, **2014**, 55, 4057-4066	3.9	18
619	Demonstration of feasibility of X-ray free electron laser studies of dynamics of nanoparticles in entangled polymer melts. *Scientific Reports*, **2014**, 4, 6017	4.9	36
618	An in situ grazing incidence X-ray scattering study of block copolymer thin films during solvent vapor annealing. *Advanced Materials*, **2014**, 26, 273-81	24	133
617	Nanoporous block copolymer membranes for ultrafiltration: a simple approach to size tunability. *ACS Nano*, **2014**, 8, 11745-52	16.7	78
616	Osmotically Driven Formation of Double Emulsions Stabilized by Amphiphilic Block Copolymers. *Angewandte Chemie*, **2014**, 126, 8379-8384	3.6	4
615	Osmotically driven formation of double emulsions stabilized by amphiphilic block copolymers. *Angewandte Chemie - International Edition*, **2014**, 53, 8240-5	16.4	47
614	Direct 3-D nanoparticle assemblies in thin films via topographically patterned surfaces. *Advanced Materials*, **2014**, 26, 2777-81	24	14
613	The good host: formation of discrete one-dimensional fullerene "channels" in well-ordered poly(2,5-bis(3-alkylthiophen-2-yl)thieno[3,2-b]thiophene) oligomers. *Journal of the American Chemical Society*, **2014**, 136, 18120-30	16.4	36
612	Bulk charge carrier transport in push-pull type organic semiconductor. *ACS Applied Materials & Interfaces*, **2014**, 6, 20904-12	9.5	18
611	Solvent-Polarity-Induced Active Layer Morphology Control in Crystalline Diketopyrrolopyrrole-Based Low Band Gap Polymer Photovoltaics. *Advanced Energy Materials*, **2014** , 4, 1300834	21.8	29
610	Semi-crystalline random conjugated copolymers with panchromatic absorption for highly efficient polymer solar cells. *Energy and Environmental Science*, **2013**, 6, 3301	35.4	160
609	Efficient polymer solar cells based on benzothiadiazole and alkylphenyl substituted benzodithiophene with a power conversion efficiency over 8%. *Advanced Materials*, **2013**, 25, 4944-9	24	298
608	Morphologies of ABC triblock terpolymer melts containing poly(cyclohexadiene): effects of conformational asymmetry. *Langmuir*, **2013**, 29, 1995-2006	4	22
607	Macroscopic vertical alignment of nanodomains in thin films of semiconductor amphiphilic block copolymers. *ACS Nano*, **2013**, 7, 6069-78	16.7	17
606	Solvent-assisted directed self-assembly of spherical microdomain block copolymers to high areal density arrays. *Advanced Materials*, **2013**, 25, 3677-82	24	20
605	Improved cathode for high efficient microbial-catalyzed reduction in microbial electrosynthesis cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 14290-4	3.6	120

604	Curie transitions for attograms of ferroelectric polymers. *Nano Letters*, **2013**, 13, 577-80	11.5	15
603	Deviations from bulk morphologies in thin films of block copolymer/additive binary blends. *Chinese Journal of Polymer Science (English Edition)*, **2013**, 31, 1250-1259	3.5	1
602	Efficient charge transport in assemblies of surfactant-stabilized semiconducting nanoparticles. *Advanced Materials*, **2013**, 25, 6411-5	24	38
601	Characterization of the morphology of solution-processed bulk heterojunction organic photovoltaics. *Progress in Polymer Science*, **2013**, 38, 1990-2052	29.6	237
600	Atomic Force Microscopy Nanomechanics Visualizes Molecular Diffusion and Microstructure at an Interface. *ACS Macro Letters*, **2013**, 2, 757-760	6.6	40
599	Synthesis of Semicrystalline/Fluorinated Side-Chain Crystalline Block Copolymers and Their Bulk and Thin Film Nanoordering. *Macromolecules*, **2013**, 46, 3737-3745	5.5	23
598	Formation of H* Phase in Chiral Block Copolymers: Effects of Solvents and Solution-Cast Conditions. *Macromolecules*, **2013**, 46, 455-462	5.5	11
597	Synthesis of pyridine-capped diketopyrrolopyrrole and its use as a building block of low band-gap polymers for efficient polymer solar cells. *Chemical Communications*, **2013**, 49, 8495-7	5.8	58
596	Stabilizing liquid drops in nonequilibrium shapes by the interfacial jamming of nanoparticles. *Science*, **2013**, 342, 460-3	33.3	255
595	Photocleavable Triblock Copolymers Featuring an Activated Ester Middle Block: "One-Step" Synthesis and Application as Locally Reactive Nanoporous Thin Films.. *ACS Macro Letters*, **2013**, 2, 966-969	6.6	29
594	Assembly of graphene oxide at water/oil interfaces: tessellated nanotiles. *Langmuir*, **2013**, 29, 13407-13	4	106
593	Cross-Linked Block Copolymer/Ionic Liquid Self-Assembled Blends for Polymer Gel Electrolytes with High Ionic Conductivity and Mechanical Strength. *Macromolecules*, **2013**, 46, 9313-9323	5.5	76
592	On the self-assembly of brush block copolymers in thin films. *ACS Nano*, **2013**, 7, 9684-92	16.7	77
591	Formation of H* Phase in Chiral Block Copolymers: Morphology Evolution As Revealed by Time-Resolved X-ray Scattering. *Macromolecules*, **2013**, 46, 474-483	5.5	10
590	Relating chemical structure to device performance via morphology control in diketopyrrolopyrrole-based low band gap polymers. *Journal of the American Chemical Society*, **2013**, 135, 19248-59	16.4	109
589	Directed self-assembly of block copolymers in the extreme: guiding microdomains from the small to the large. *Soft Matter*, **2013**, 9, 9059	3.6	135
588	Conjugated polymeric zwitterions as efficient interlayers in organic solar cells. *Advanced Materials*, **2013**, 25, 6868-73	24	82
587	A drop on a floating sheet: boundary conditions, topography and formation of wrinkles. *Soft Matter* , **2013**, 9, 8289	3.6	18

586	Synthesis and morphology investigations of a novel alkyne-functionalized diblock copolymer. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 78-85	2.6	4
585	Improved cathode materials for microbial electrosynthesis. *Energy and Environmental Science*, **2013**, 6, 217-224	35.4	260
584	Self-assembly of symmetric brush diblock copolymers. *ACS Nano*, **2013**, 7, 2551-8	16.7	107
583	A route to rapid carbon nanotube growth. *Chemical Communications*, **2013**, 49, 5159-61	5.8	30
582	Manipulating Backbone Structure to Enhance Low Band Gap Polymer Photovoltaic Performance. *Advanced Energy Materials*, **2013**, 3, 930-937	21.8	61
581	Capillary deformations of bendable films. *Physical Review Letters*, **2013**, 111, 014301	7.4	58
580	Triggered in situ disruption and inversion of nanoparticle-stabilized droplets. *Angewandte Chemie - International Edition*, **2013**, 52, 6620-3	16.4	21
579	Functionalized Nanoporous Thin Films and Fibers from Photocleavable Block Copolymers Featuring Activated Esters. *Macromolecules*, **2013**, 46, 5195-5201	5.5	61
578	Liquid adsorption at surfaces patterned with cylindrical nano-cavities. *Soft Matter*, **2013**, 9, 10550	3.6	1
577	Pattern transfer using block copolymers. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2013**, 371, 20120306	3	51
576	Self-assembly of gold nanoparticles on gallium droplets: controlling charge transport through microscopic devices. *Langmuir*, **2013**, 29, 13640-6	4	19
575	A Study on the Correlation Between Structure and Hole Transport in Semi-Crystalline Regioregular P3HT. *Advanced Energy Materials*, **2013**, 3, 263-270	21.8	46
574	Semaphorin 7a+ regulatory T cells are associated with progressive idiopathic pulmonary fibrosis and are implicated in transforming growth factor-β-induced pulmonary fibrosis. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 187, 180-8	10.2	87
573	Materials science. Polymers find plenty of wiggle room at the bottom. *Science*, **2013**, 341, 1351-2	33.3	15
572	Lattice deformation and domain distortion in the self-assembly of block copolymer thin films on chemical patterns. *Small*, **2013**, 9, 779-84	11	6
571	Chirality in block copolymer melts: mesoscopic helicity from intersegment twist. *Physical Review Letters*, **2013**, 110, 058301	7.4	29
570	Line patterns from cylinder-forming photocleavable block copolymers. *Advanced Materials*, **2013**, 25, 4690-5	24	17
569	Triggered In situ Disruption and Inversion of Nanoparticle-Stabilized Droplets. *Angewandte Chemie*, **2013**, 125, 6752-6755	3.6	7

568	The role of additive in diketopyrrolopyrrole-based small molecular bulk heterojunction solar cells. *Advanced Materials*, **2013**, 25, 6519-25	24	57
567	Charge Transport: Efficient Charge Transport in Assemblies of Surfactant-Stabilized Semiconducting Nanoparticles (Adv. Mater. 44/2013). *Advanced Materials*, **2013**, 25, 6410-6410	24	
566	Ionic Liquids as Floatation Media for Cryo-Ultramicrotomy of Soft Polymeric Materials. *Microscopy and Microanalysis*, **2013**, 19, 1554-1557	0.5	2
565	Antibody affinity purification using metallic nickel particles. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 895-896, 89-93	3.2	5
564	Nanoparticle-Stabilized Double Emulsions and Compressed Droplets. *Angewandte Chemie*, **2012**, 124, 149-153	3.6	3
563	Nanoparticle-stabilized double emulsions and compressed droplets. *Angewandte Chemie - International Edition*, **2012**, 51, 145-9	16.4	32
562	Orienting block copolymer microdomains with block copolymer brushes. *ACS Nano*, **2012**, 6, 10250-7	16.7	24
561	Fabrication of Co-continuous Nanostructured and Porous Polymer Membranes: Spinodal Decomposition of Homopolymer and Random Copolymer Blends. *Angewandte Chemie*, **2012**, 124, 4165-4170	3.6	4
560	Probing and repairing damaged surfaces with nanoparticle-containing microcapsules. *Nature Nanotechnology*, **2012**, 7, 87-90	28.7	52
559	Field Emission Tip Array Fabrication Utilizing Geometrical Hindrance in the Oxidation of Si. *IEEE Nanotechnology Magazine*, **2012**, 11, 999-1003	2.6	10
558	Lamellar microdomain orientation and phase transition of polystyrene-b-poly(methyl methacrylate) films by controlled interfacial interactions. *Soft Matter*, **2012**, 8, 3463	3.6	25
557	A low band-gap polymer based on unsubstituted benzo[1,2-b:4,5-b']dithiophene for high performance organic photovoltaics. *Chemical Communications*, **2012**, 48, 6933-5	5.8	66
556	Disorder-to-order transitions induced by alkyne/azide click chemistry in diblock copolymer thin films. *Soft Matter*, **2012**, 8, 5273	3.6	3
555	P3HT nanopillars for organic photovoltaic devices nanoimprinted by AAO templates. *ACS Nano*, **2012**, 6, 1479-85	16.7	121
554	Orientational interactions in block copolymer melts: self-consistent field theory. *Journal of Chemical Physics*, **2012**, 137, 104911	3.9	17
553	A high mobility conjugated polymer based on dithienothiophene and diketopyrrolopyrrole for organic photovoltaics. *Energy and Environmental Science*, **2012**, 5, 6857	35.4	164
552	High density and large area arrays of silicon oxide pillars with tunable domain size for mask etch applications. *Advanced Materials*, **2012**, 24, 5505-11	24	13
551	High aspect ratio sub-15 nm silicon trenches from block copolymer templates. *Advanced Materials*, **2012**, 24, 5688-94	24	72

550	Morphologies of poly(cyclohexadiene) diblock copolymers: Effect of conformational asymmetry. *Polymer*, **2012**, 53, 5155-5162	3.9	11
549	Tailoring block copolymer morphologies via alkyne/azide cycloaddition. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 55-64	2.6	5
548	On the morphology of polymer-based photovoltaics. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 1018-1044	2.6	285
547	Efficient polymer solar cells based on a low bandgap semi-crystalline DPP polymer-PCBM blends. *Advanced Materials*, **2012**, 24, 3947-51	24	193
546	Improving the ordering and photovoltaic properties by extending π-conjugated area of electron-donating units in polymers with D-A structure. *Advanced Materials*, **2012**, 24, 3383-9	24	289
545	Controlled orientation of block copolymers on defect-free faceted surfaces. *Advanced Materials*, **2012**, 24, 4278-83	24	30
544	Multi-Length-Scale Morphologies in PCPDTBT/PCBM Bulk-Heterojunction Solar Cells. *Advanced Energy Materials*, **2012**, 2, 683-690	21.8	163
543	Fabrication of co-continuous nanostructured and porous polymer membranes: spinodal decomposition of homopolymer and random copolymer blends. *Angewandte Chemie - International Edition*, **2012**, 51, 4089-94	16.4	35
542	Promoting Network Formation in Nanorod-filled Binary Blends. *Materials Research Society Symposia Proceedings*, **2012**, 1411, 75		
541	Unidirectionally aligned line patterns driven by entropic effects on faceted surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1402-6	11.5	81
540	Patterning: High Aspect Ratio Sub-15 nm Silicon Trenches From Block Copolymer Templates (Adv. Mater. 42/2012). *Advanced Materials*, **2012**, 24, 5687-5687	24	1
539	P3HT/PCBM bulk heterojunction organic photovoltaics: correlating efficiency and morphology. *Nano Letters*, **2011**, 11, 561-7	11.5	511
538	Temperature-triggered micellization of block copolymers on an ionic liquid surface. *Langmuir*, **2011**, 27, 12443-50	4	12
537	ABC triblock copolymer vesicles with mesh-like morphology. *ACS Nano*, **2011**, 5, 486-92	16.7	62
536	Photocontrol over the disorder-to-order transition in thin films of polystyrene-block-poly(methyl methacrylate) block copolymers containing photodimerizable anthracene functionality. *Journal of the American Chemical Society*, **2011**, 133, 17217-24	16.4	21
535	Nanopatterning and Functionality of Block-Copolymer Thin Films **2011**, 401-474		2
534	Defining the nanostructured morphology of triblock copolymers using resonant soft X-ray scattering. *Nano Letters*, **2011**, 11, 3906-11	11.5	124
533	Phase transition behavior in thin films of block copolymers by use of immiscible solvent vapors. *Soft Matter*, **2011**, 7, 443-447	3.6	26

532	Room temperature magnetic materials from nanostructured diblock copolymers. *Nature Communications*, **2011**, 2, 482	17.4	54
531	Thin Films of Semifluorinated Block Copolymers Prepared by ATRP. *Macromolecular Chemistry and Physics*, **2011**, 212, 2399-2405	2.6	7
530	Fabrication of silicon oxide nanodots with an areal density beyond 1 teradots inch(-2). *Advanced Materials*, **2011**, 23, 5755-61	24	32
529	Morphological Characterization of a Low-Bandgap Crystalline Polymer:PCBM Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2011**, 1, 870-878	21.8	85
528	Role of semaphorin 7a signaling in transforming growth factor β1-induced lung fibrosis and scleroderma-related interstitial lung disease. *Arthritis and Rheumatism*, **2011**, 63, 2484-94		68
527	Block copolymer self-assembly in chemically patterned squares. *Soft Matter*, **2011**, 7, 3915	3.6	38
526	Highly ordered nanoporous template from triblock copolymer. *ACS Nano*, **2011**, 5, 1207-14	16.7	32
525	Dewetting on Curved Interfaces: A Simple Route to Polymer Nanostructures. *Macromolecules*, **2011**, 44, 8020-8027	5.5	24
524	Kinetically trapped co-continuous polymer morphologies through intraphase gelation of nanoparticles. *Nano Letters*, **2011**, 11, 1997-2003	11.5	96
523	A Study on the Kinetics of a Disorder-to-Order Transition Induced by Alkyne/Azide Click Reaction. *Macromolecules*, **2011**, 44, 4269-4275	5.5	11
522	Highly Ordered Nanoporous Thin Films from Photocleavable Block Copolymers. *Macromolecules*, **2011**, 44, 6433-6440	5.5	90
521	Circular nanopatterns over large areas from the self-assembly of block copolymers guided by shallow trenches. *ACS Nano*, **2011**, 5, 2855-60	16.7	32
520	UV-enhanced Ordering in Azobenzene-Containing Polystyrene-block-Poly(n-Butyl Methacrylate) Copolymer Blends. *Macromolecules*, **2011**, 44, 278-285	5.5	8
519	Bulk heterojunction photovoltaic active layers via bilayer interdiffusion. *Nano Letters*, **2011**, 11, 2071-8	11.5	264
518	Phase Behavior and Photoresponse of Azobenzene-Containing Polystyrene-block-poly(n-butyl methacrylate) Block Copolymers. *Macromolecules*, **2011**, 44, 1125-1131	5.5	16
517	Aligned nanowires and nanodots by directed block copolymer assembly. *Nanotechnology*, **2011**, 22, 305302	3.4	22
516	NANOSCALE PATTERNING IN BLOCK COPOLYMER THIN FILMS. *Nano*, **2010**, 05, 1-11	1.1	4
515	Morphology control of a polythiophene-fullerene bulk heterojunction for enhancement of the high-temperature stability of solar cell performance by a new donor-acceptor diblock copolymer. *Nanotechnology*, **2010**, 21, 105201	3.4	89

514	Multiple-level threshold switching behavior of In2Se3 confined in a nanostructured silicon substrate. *Applied Physics Letters*, **2010**, 97, 092114	3.4	9
513	Temperature tunable micellization of polystyrene-block-poly(2-vinylpyridine) at Si-ionic liquid interface. *Langmuir*, **2010**, 26, 17126-32	4	11
512	Adsorption energy of nano- and microparticles at liquid-liquid interfaces. *Langmuir*, **2010**, 26, 12518-22	4	206
511	Fabrication of Pt/Au concentric spheres from triblock copolymer. *ACS Nano*, **2010**, 4, 1124-30	16.7	41
510	Solvent-Driven Evolution of Block Copolymer Morphology under 3D Confinement. *Macromolecules*, **2010**, 43, 7807-7812	5.5	121
509	Disorder-to-Order Transition of Diblock Copolymers Induced by Alkyne/Azide Click Chemistry. *Macromolecules*, **2010**, 43, 6234-6236	5.5	23
508	Ordering in Mixtures of a Triblock Copolymer with a Room Temperature Ionic Liquid. *Macromolecules*, **2010**, 43, 10528-10535	5.5	48
507	Using nanoparticle-filled microcapsules for site-specific healing of damaged Substrates: creating a "repair-and-go" system. *ACS Nano*, **2010**, 4, 1115-23	16.7	49
506	Dissolution and dissolved state of cytochrome C in a neat, hydrophilic ionic liquid. *Biomacromolecules*, **2010**, 11, 2944-8	6.9	67
505	Holey silicon as an efficient thermoelectric material. *Nano Letters*, **2010**, 10, 4279-83	11.5	559
504	Synthesis of C60-end capped P3HT and its application for high performance of P3HT/PCBM bulk heterojunction solar cells. *Journal of Materials Chemistry*, **2010**, 20, 3287		110
503	Confinement Effects on Crystallization and Curie Transitions of Poly(vinylidene fluoride-co-trifluoroethylene). *Macromolecules*, **2010**, 43, 3844-3850	5.5	135
502	Smooth cascade of wrinkles at the edge of a floating elastic film. *Physical Review Letters*, **2010**, 105, 038302	7.4	88
501	Segmental dynamics of polymers during capillary flow into nanopores. *Soft Matter*, **2010**, 6, 1111	3.6	30
500	Preparation of 1 inch gold nanowires from PS-b-P4VP block copolymers. *Journal of Materials Chemistry*, **2010**, 20, 1198-1202		11
499	Precise placements of metal nanoparticles from reversible block copolymer nanostructures. *Journal of Materials Chemistry*, **2010**, 20, 5047		39
498	Ferritin–Polymer Conjugates: Grafting Chemistry and Integration into Nanoscale Assemblies. *Advanced Functional Materials*, **2010**, 20, 3603-3612	15.6	35
497	Self-assembly of block copolymers on flexible substrates. *Advanced Materials*, **2010**, 22, 1882-4	24	22

496	Guided assemblies of ferritin nanocages: highly ordered arrays of monodisperse nanoscopic elements. *Advanced Materials*, **2010**, 22, 2583-7	24	26
495	Directed self-assembly of block copolymers on two-dimensional chemical patterns fabricated by electro-oxidation nanolithography. *Advanced Materials*, **2010**, 22, 2268-72	24	52
494	Synthese von Nano-/Mikrostrukturen an fluiden Grenzflächen. *Angewandte Chemie*, **2010**, 122, 10250-10265	5.6	26
493	Synthesis of nano/microstructures at fluid interfaces. *Angewandte Chemie - International Edition*, **2010**, 49, 10052-66	16.4	174
492	Spatial control of dewetting: highly ordered Teflon nanospheres. *Journal of Colloid and Interface Science*, **2010**, 348, 416-23	9.3	20
491	Synthesis and photovoltaic properties of low-bandgap alternating copolymers consisting of 3-hexylthiophene and [1,2,5]thiadiazolo[3,4-g]quinoxaline derivatives. *Organic Electronics*, **2010**, 11, 846-853	3.5	38
490	Transition behavior of PS-b-PMMA films on the balanced interfacial interactions. *Polymer*, **2010**, 51, 6313-6318	3.9	27
489	Density fluctuations and phase transitions of ferroelectric polymer nanowires. *Small*, **2010**, 6, 1822-6	11	26
488	Dual-Tone Patterned Mesoporous Silicate Films Templated From Chemically Amplified Block Copolymers. *Advanced Functional Materials*, **2009**, 19, 2728-2734	15.6	14
487	A Novel Approach to Addressable 4 Teradot/in.2 Patterned Media. *Advanced Materials*, **2009**, 21, 2516-2519	14	90
486	Block copolymer nanolithography: translation of molecular level control to nanoscale patterns. *Advanced Materials*, **2009**, 21, 4769-92	24	585
485	Synthesis of Photoisomerizable Block Copolymers by Atom Transfer Radical Polymerization. *Macromolecular Chemistry and Physics*, **2009**, 210, 1484-1492	2.6	10
484	Thin Film Instabilities in Blends under Cylindrical Confinement. *Macromolecular Rapid Communications*, **2009**, 30, 377-83	4.8	50
483	Controlling orientation and functionalization in thin films of block copolymers. *Macromolecular Rapid Communications*, **2009**, 30, 1674-8	4.8	14
482	Synthesis and characterization of bionanoparticle–silica composites and mesoporous silica with large pores. *Nano Research*, **2009**, 2, 474-483	10	32
481	Study of growth behaviour and microstructure of epitaxially grown self-assembled Ge quantum dots on nanometer-scale patterned SiO2/Si(001) substrates. *Physica Status Solidi (B): Basic Research* , **2009**, 246, 721-724	1.3	5
480	Preparation of metallic line patterns from functional block copolymers. *Small*, **2009**, 5, 1343-8	11	32
479	A simple top-down/bottom-up approach to sectored, ordered arrays of nanoscopic elements using block copolymers. *Small*, **2009**, 5, 1064-9	11	28

478	Self-assembled electrical contact to nanoparticles using metallic droplets. *Small*, **2009**, 5, 1974-7	11	38
477	Polymers: performing under pressure. *Nature Nanotechnology*, **2009**, 4, 703-4	28.7	3
476	Polymeric gate dielectric interlayer of cross-linkable poly(styrene-r-methylmethacrylate) copolymer for ferroelectric PVDF-TrFE field effect transistor memory. *Organic Electronics*, **2009**, 10, 849-856	3.5	35
475	Donor–Acceptor Poly(thiophene-block-perylene diimide) Copolymers: Synthesis and Solar Cell Fabrication. *Macromolecules*, **2009**, 42, 1079-1082	5.5	286
474	Cylindrically Confined Diblock Copolymers. *Macromolecules*, **2009**, 42, 9082-9088	5.5	163
473	Relaxation of Thin Films of Polystyrene Floating on Ionic Liquid Surface. *Macromolecules*, **2009**, 42, 9111-9117	5.5	55
472	Fabrication of hierarchical structures by wetting porous templates with polymer microspheres. *Langmuir*, **2009**, 25, 4331-5	4	36
471	Fabrication of Nanoporous Block Copolymer Thin Films through Mediation of Interfacial Interactions with UV Cross-Linked Polystyrene. *Macromolecules*, **2009**, 42, 7213-7216	5.5	9
470	A simple route for the preparation of mesoporous nanostructures using block copolymers. *ACS Nano*, **2009**, 3, 2827-33	16.7	52
469	Block-copolymer-based plasmonic nanostructures. *ACS Nano*, **2009**, 3, 3987-92	16.7	97
468	Synthesis and photophysical property of well-defined donor–acceptor diblock copolymer based on regioregular poly(3-hexylthiophene) and fullerene. *Journal of Materials Chemistry*, **2009**, 19, 1483		119
467	Self-assembly of tobacco mosaic virus at oil/water interfaces. *Langmuir*, **2009**, 25, 4979-87	4	91
466	Lateral Ordering of Cylindrical Microdomains Under Solvent Vapor. *Macromolecules*, **2009**, 42, 1278-1284	5.5	107
465	Interfacial assembly of turnip yellow mosaic virus nanoparticles. *Langmuir*, **2009**, 25, 5168-76	4	59
464	Cylindrical Microdomain Orientation of PS-b-PMMA on the Balanced Interfacial Interactions: Composition Effect of Block Copolymers. *Macromolecules*, **2009**, 42, 4902-4906	5.5	60
463	Connecting quantum dots and bionanoparticles in hybrid nanoscale ultra-thin films. *Soft Matter*, **2009**, 5, 1048	3.6	27
462	Highly ordered gold nanotubes using thiols at a cleavable block copolymer interface. *Journal of the American Chemical Society*, **2009**, 131, 9870-1	16.4	98
461	Macroscopic 10-terabit-per-square-inch arrays from block copolymers with lateral order. *Science*, **2009**, 323, 1030-3	33.3	653

460	Burnout and career satisfaction among American surgeons. *Annals of Surgery*, **2009**, 250, 463-71	7.8	715
459	Microdomain Orientation of PS-b-PMMA by Controlled Interfacial Interactions. *Macromolecules*, **2008**, 41, 6431-6437	5.5	187
458	From nanorings to nanodots by patterning with block copolymers. *Nano Letters*, **2008**, 8, 1667-72	11.5	96
457	Ordering of PS-b-P4VP on patterned silicon surfaces. *ACS Nano*, **2008**, 2, 1363-70	16.7	50
456	Influence of Interfacial Energy on Electric-Field-Induced Sphere-to-Cylinder Transition in Block Copolymer Thin Films. *Macromolecules*, **2008**, 41, 7227-7231	5.5	18
455	Lamellae orientation in block copolymer films with ionic complexes. *Langmuir*, **2008**, 24, 3545-50	4	21
454	A simple route to highly oriented and ordered nanoporous block copolymer templates. *ACS Nano*, **2008**, 2, 766-72	16.7	188
453	Highly aligned ultrahigh density arrays of conducting polymer nanorods using block copolymer templates. *Nano Letters*, **2008**, 8, 2315-20	11.5	207
452	Controlling the Morphologies of Organometallic Block Copolymers in the 3-Dimensional Spatial Confinement of Colloidal and Inverse Colloidal Crystals. *Macromolecules*, **2008**, 41, 2250-2259	5.5	74
451	Size control and registration of nano-structured thin films by cross- units. *Soft Matter*, **2008**, 4, 475-479	3.6	31
450	Separating membrane and surface tension contributions in Pickering droplet deformation. *Soft Matter*, **2008**, 4, 2259	3.6	39
449	Simple Fabrication of Micropatterned Mesoporous Silica Films Using Photoacid Generators in Block Copolymers *Chemistry of Materials*, **2008**, 20, 604-606	9.6	19
448	Transition Behavior of Block Copolymer Thin Films on Preferential Surfaces. *Macromolecules*, **2008**, 41, 9140-9145	5.5	41
447	Ion-Complexation-Induced Changes in the Interaction Parameter and the Chain Conformation of PS-b-PMMA Copolymers. *Macromolecules*, **2008**, 41, 4904-4907	5.5	64
446	Influence of Ionic Complexes on Phase Behavior of Polystyrene-b-poly(methyl methacrylate) Copolymers. *Macromolecules*, **2008**, 41, 963-969	5.5	70
445	Amorphous Diblock Copolymers with a High Organometallic Block Volume Fraction: Synthesis, Characterization and Self-Assembly of Polystyrene-block-Poly(ferrocenylethylmethylsilane) in the Bulk State. *Macromolecules*, **2008**, 41, 9474-9479	5.5	24
444	Effect of Nanoparticles on the Electrohydrodynamic Instabilities of Polymer/Nanoparticle Thin Films. *Macromolecules*, **2008**, 41, 2722-2726	5.5	38
443	Morphological Study on an Azobenzene-Containing Liquid Crystalline Diblock Copolymer. *Macromolecules*, **2008**, 41, 1897-1900	5.5	20

442	Nanostructured magnetic thin films from organometallic block copolymers: pyrolysis of self-assembled polystyrene-block-poly(ferrocenylethylmethylsilane). *ACS Nano*, **2008**, 2, 263-70	16.7	119
441	Arrays of ultrasmall metal rings. *Nanotechnology*, **2008**, 19, 245305	3.4	13
440	Anomalous suppression of the transition temperature of superconducting nanostructured honeycomb films: Electrical transport measurements and Maekawa-Fukuyama model. *Physical Review B*, **2008**, 77,	3.3	2
439	BLOCK COPOLYMER THIN FILMS. *Series in Sof Condensed Matter*, **2008**, 1-25		3
438	Core/shell biocomposites from the hierarchical assembly of bionanoparticles and polymer. *Small*, **2008**, 4, 1624-9	11	47
437	Self-assembly of metallo-supramolecular block copolymers in thin films. *Journal of Polymer Science Part A*, **2008**, 46, 4719-4724	2.5	28
436	Surface modification of tobacco mosaic virus with "click" chemistry. *ChemBioChem*, **2008**, 9, 519-23	3.8	176
435	Controlling Orientation and Order in Block Copolymer Thin Films. *Advanced Materials*, **2008**, 20, 4851-4856	24	40
434	An Efficient Route to Mesoporous Silica Films with Perpendicular Nanochannels. *Advanced Materials*, **2008**, 20, 246-251	24	48
433	Fabrication of Highly Ordered Silicon Oxide Dots and Stripes from Block Copolymer Thin Films. *Advanced Materials*, **2008**, 20, 681-685	24	120
432	Responsive Assemblies: Gold Nanoparticles with Mixed Ligands in Microphase Separated Block Copolymers. *Advanced Materials*, **2008**, 20, 1462-1466	24	116
431	Polymer Thin Films. *Series in Sof Condensed Matter*, **2008**,		42
430	Globular Organization of Multifunctional Linear Homopolymer Using Trifunctional Molecules. *Macromolecules*, **2007**, 40, 4267-4275	5.5	5
429	Effective Interaction Parameter for Homologous Series of Deuterated Polystyrene-block-Poly(n-alkyl methacrylate) Copolymers. *Macromolecules*, **2007**, 40, 7644-7655	5.5	48
428	Solvent Annealed Thin Films of Asymmetric Polyisoprene-Polylactide Diblock Copolymers. *Macromolecules*, **2007**, 40, 1181-1186	5.5	116
427	Solvent-Induced Transition from Micelles in Solution to Cylindrical Microdomains in Diblock Copolymer Thin Films. *Macromolecules*, **2007**, 40, 9059-9063	5.5	135
426	Ordered arrays of -oriented silicon nanorods by CMOS-compatible block copolymer lithography. *Nano Letters*, **2007**, 7, 1516-20	11.5	104
425	Orientationally Controlled Nanoporous Cylindrical Domains in Polystyrene-b-poly(ferrocenylethylmethylsilane) Block Copolymer Films. *Macromolecules*, **2007**, 40, 3790-3796	5.5	36

424	Instabilities in nanoporous media. *Nano Letters*, **2007**, 7, 183-7	11.5	119
423	Effect of Humidity on the Ordering of PEO-Based Copolymer Thin Films. *Macromolecules*, **2007**, 40, 7019-7025	5.8	103
422	Sizing nanoparticle-covered droplets by extrusion through track-etch membranes. *Langmuir*, **2007**, 23, 965-9	4	21
421	Surface Modification with Cross-Linked Random Copolymers: Minimum Effective Thickness. *Macromolecules*, **2007**, 40, 4296-4300	5.5	63
420	Self-assembly of nanoparticles at interfaces. *Soft Matter*, **2007**, 3, 1231-1248	3.6	466
419	On the kinetics of nanoparticle self-assembly at liquid/liquid interfaces. *Physical Chemistry Chemical Physics*, **2007**, 9, 6351-8	3.6	132
418	Self-Assembly of Nanoparticle–Copolymer Mixtures: A Kinetic Point of View. *Advanced Materials*, **2007**, 19, 381-385	24	49
417	Highly Ordered Nanoporous Thin Films from Cleavable Polystyrene-block-poly(ethylene oxide). *Advanced Materials*, **2007**, 19, 1571-1576	24	112
416	On the Influence of Ion Incorporation in Thin Films of Block Copolymers. *Advanced Materials*, **2007**, 19, 4370-4374	24	18
415	Facile Routes to Patterned Surface Neutralization Layers for Block Copolymer Lithography. *Advanced Materials*, **2007**, 19, 4552-4557	24	142
414	Novel transparent nano- to micro-heterogeneous substrates for in-situ cell migration study. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 509-12	5.4	
413	Intersubband absorption in p-type Si1−xGex quantum dots on pre-patterned Si substrates made by a diblock copolymer process. *Journal of Crystal Growth*, **2007**, 301-302, 833-836	1.6	6
412	Drying droplets: a window into the behavior of nanorods at interfaces. *Small*, **2007**, 3, 1214-7	11	86
411	Fabrication of ordered anodic aluminum oxide using a solvent-induced array of block-copolymer micelles. *Small*, **2007**, 3, 1869-72	11	43
410	Templated nanostructured PS-b-PEO nanotubes. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 2912-2917	2.6	33
409	Enhanced mobility of confined polymers. *Nature Materials*, **2007**, 6, 961-5	27	254
408	Microcapsules of PEGylated gold nanoparticles prepared by fluid-fluid interfacial assembly. *Nano Letters*, **2007**, 7, 389-93	11.5	86
407	Capillary wrinkling of floating thin polymer films. *Science*, **2007**, 317, 650-3	33.3	385

406	Surface patterning. *Methods in Cell Biology*, **2007**, 83, 67-87	1.8	13
405	Alvine et al. Reply:. *Physical Review Letters*, **2007**, 98,	7.4	1
404	Microstructure analysis of epitaxially grown self-assembled Ge islands on nanometer-scale patterned SiO2Si substrates by high-resolution transmission electron microscopy. *Journal of Applied Physics*, **2007**, 102, 104306	2.5	8
403	A Photoactive Polymer with Azobenzene Chromophore in the Side Chains. *Macromolecules*, **2007**, 40, 2267-2270	5.5	40
402	Synthesis and Characterization of CdSe Nanorods Functionalized with Regioregular Poly(3-hexylthiophene). *Chemistry of Materials*, **2007**, 19, 3712-3716	9.6	104
401	The challenges in guided self-assembly of Ge and InAs quantum dots on Si. *Thin Solid Films*, **2006**, 508, 195-199	2.2	17
400	Amorphous Carbon Nanotubes with Tunable Properties via Template Wetting. *Advanced Functional Materials*, **2006**, 16, 1476-1480	15.6	93
399	Nanoporous Membranes with Ultrahigh Selectivity and Flux for the Filtration of Viruses. *Advanced Materials*, **2006**, 18, 709-712	24	497
398	Solvent mediated assembly of nanoparticles confined in mesoporous alumina. *Physical Review B*, **2006**, 73,	3.3	11
397	Using a ferrocenylsilane-based block copolymer as a template to produce nanotextured Ag surfaces: uniformly enhanced surface enhanced Raman scattering active substrates. *Nanotechnology*, **2006**, 17, 5792-5797	3.4	82
396	Ion complexation: a route to enhanced block copolymer alignment with electric fields. *Physical Review Letters*, **2006**, 96, 128301	7.4	58
395	High-temperature resistant, ordered gold nanoparticle arrays. *Nanotechnology*, **2006**, 17, 2122-2126	3.4	32
394	Defect-free nanoporous thin films from ABC triblock copolymers. *Journal of the American Chemical Society*, **2006**, 128, 7622-9	16.4	269
393	Closed-Loop Phase Behavior for Weakly Interacting Block Copolymers. *Macromolecules*, **2006**, 39, 5926-5930	5.5	15
392	Phase Behavior of a Weakly Interacting Block Copolymer by Temperature-Dependent FTIR Spectroscopy. *Macromolecules*, **2006**, 39, 408-412	5.5	31
391	Influence of Carbon Dioxide Swelling on the Closed-Loop Phase Behavior of Block Copolymers. *Macromolecules*, **2006**, 39, 6580-6583	5.5	12
390	Graft Copolymers from Poly(vinylidene fluoride-co-chlorotrifluoroethylene) via Atom Transfer Radical Polymerization. *Macromolecules*, **2006**, 39, 3531-3539	5.5	128
389	Selective growth of Ge islands on nanometer-scale patterned SiO2Si substrate by molecular beam epitaxy. *Applied Physics Letters*, **2006**, 89, 063107	3.4	20

388	Study and characterization of tobacco mosaic virus head-to-tail assembly assisted by aniline polymerization. *Chemical Communications*, **2006**, 3019-21	5.8	73
387	Capillary filling of anodized alumina nanopore arrays. *Physical Review Letters*, **2006**, 97, 175503	7.4	40
386	Cellular responses to substrate topography: role of myosin II and focal adhesion kinase. *Biophysical Journal*, **2006**, 90, 3774-82	2.9	148
385	An optical waveguide study on the nanopore formation in block copolymer/homopolymer thin films by selective solvent swelling. *Journal of Physical Chemistry B*, **2006**, 110, 15381-8	3.4	34
384	Surface-functionalized CdSe nanorods for assembly in diblock copolymer templates. *Journal of the American Chemical Society*, **2006**, 128, 3898-9	16.4	189
383	Synthesis and Microphase Separation of Poly(styrene-b-acrylonitrile) Prepared by Sequential Anionic and ATRP Techniques. *Macromolecules*, **2006**, 39, 1766-1770	5.5	40
382	Photophysical Properties of Perdeuterated trans-Stilbene Grafted Polystyrene. *Macromolecules*, **2006**, 39, 6776-6780	5.5	6
381	Salt Complexation in Block Copolymer Thin Films. *Macromolecules*, **2006**, 39, 8473-8479	5.5	130
380	Novel 3-D structures in polymer films by coupling external and internal fields. *Langmuir*, **2006**, 22, 4315-8	4	47
379	Grain Rotation in Ion-Complexed Symmetric Diblock Copolymer Thin Films under an Electric Field. *Macromolecules*, **2006**, 39, 8487-8491	5.5	38
378	"Self-corralling" nanorods under an applied electric field. *Nano Letters*, **2006**, 6, 2066-9	11.5	203
377	Nanoparticle polymer composites: where two small worlds meet. *Science*, **2006**, 314, 1107-10	33.3	2117
376	Functionalization of nanoparticles for dispersion in polymers and assembly in fluids. *Journal of Polymer Science Part A*, **2006**, 44, 5076-5086	2.5	69
375	Entropy-driven segregation of nanoparticles to cracks in multilayered composite polymer structures. *Nature Materials*, **2006**, 5, 229-233	27	297
374	Growth behavior and microstructure of Ge self-assembled islands on nanometer-scale patterned Si substrate. *Journal of Crystal Growth*, **2006**, 290, 369-373	1.6	6
373	Fabrication of densely packed, well-ordered, high-aspect-ratio silicon nanopillars over large areas using block copolymer lithography. *Thin Solid Films*, **2006**, 513, 289-294	2.2	69
372	Wetting Transition in Cylindrical Alumina Nanopores with Polymer Melts. *Nano Letters*, **2006**, 6, 1075-1079	11.5	210
371	The effect of molecular architecture on the grain growth kinetics of AnBn star block copolymers. *Faraday Discussions*, **2005**, 128, 103-12; Discussion 211-29	3.6	10

370	High-Quality Single-Walled Carbon Nanotubes with Small Diameter, Controlled Density, and Ordered Locations Using a Polyferrocenylsilane Block Copolymer Catalyst Precursor. *Chemistry of Materials*, **2005**, 17, 2227-2231	9.6	114
369	A Morphological Study of a Semicrystalline Poly(l-lactic acid-b-ethylene oxide-b-l-lactic acid) Triblock Copolymer. *Macromolecules*, **2005**, 38, 104-109	5.5	90
368	Controlling the location and spatial extent of nanobubbles using hydrophobically nanopatterned surfaces. *Nano Letters*, **2005**, 5, 1751-6	11.5	118
367	Early Stages in the Growth of Electric Field-Induced Surface Fluctuations. *Macromolecules*, **2005**, 38, 4868-4873	5.5	40
366	From Cylinders to Helices upon Confinement. *Macromolecules*, **2005**, 38, 1055-1056	5.5	184
365	Diblock Copolymers with Amorphous Atactic Polyferrocenylsilane Blocks:Synthesis, Characterization, and Self-Assembly of Polystyrene-block-poly(ferrocenylethylmethylsilane) in the Bulk State. *Macromolecules*, **2005**, 38, 6931-6938	5.5	104
364	Interfacial Interaction Dependence of Microdomain Orientation in Diblock Copolymer Thin Films. *Macromolecules*, **2005**, 38, 2802-2805	5.5	98
363	Controlled Structure in Artificial Protein Hydrogels. *Macromolecules*, **2005**, 38, 7470-7475	5.5	26
362	Grain Growth Kinetics of AnBnStar Block Copolymers in Supercritical Carbon Dioxide. *Macromolecules*, **2005**, 38, 4719-4728	5.5	7
361	A Thermal and Manufacturable Approach to Stabilized Diblock Copolymer Templates. *Macromolecules*, **2005**, 38, 7676-7683	5.5	79
360	Electric Field Alignment of Asymmetric Diblock Copolymer Thin Films. *Macromolecules*, **2005**, 38, 10788-10798	5.5	140
359	Nanoparticle assembly at fluid interfaces: structure and dynamics. *Langmuir*, **2005**, 21, 191-4	4	223
358	Orthogonal approaches to the simultaneous and cascade functionalization of macromolecules using click chemistry. *Journal of the American Chemical Society*, **2005**, 127, 14942-9	16.4	311
357	Structurally Diverse Dendritic Libraries: A Highly Efficient Functionalization Approach Using Click Chemistry. *Macromolecules*, **2005**, 38, 3663-3678	5.5	338
356	Selective Solvent-Induced Reversible Surface Reconstruction of Diblock Copolymer Thin Films. *ACS Symposium Series*, **2005**, 158-170	0.4	3
355	Controlled placement of CdSe nanoparticles in diblock copolymer templates by electrophoretic deposition. *Nano Letters*, **2005**, 5, 357-61	11.5	145
354	Silica Nanostructures Templated by Oriented Block Copolymer Thin Films Using Pore-Filling and Selective-Mineralization Routes. *Chemistry of Materials*, **2005**, 17, 4743-4749	9.6	56
353	Mixed monolayer coverage on gold nanoparticles for interfacial stabilization of immiscible fluids. *Chemical Communications*, **2005**, 4050-2	5.8	62

352	Block Copolymer Lithography: Merging Bottom-Up with Top-Down Processes. *MRS Bulletin*, **2005**, 30, 952-966	3.2	569
351	A generalized approach to the modification of solid surfaces. *Science*, **2005**, 308, 236-9	33.3	467
350	Self-directed self-assembly of nanoparticle/copolymer mixtures. *Nature*, **2005**, 434, 55-9	50.4	861
349	Self-assembly and cross-linking of bionanoparticles at liquid-liquid interfaces. *Angewandte Chemie - International Edition*, **2005**, 44, 2420-6	16.4	225
348	Self-Assembly and Cross-Linking of Bionanoparticles at Liquid Liquid Interfaces. *Angewandte Chemie*, **2005**, 117, 2472-2478	3.6	27
347	Organic Inorganic Nanohybridization by Block Copolymer Thin Films. *Advanced Functional Materials* , **2005**, 15, 1160-1164	15.6	76
346	Thin Films of Block Copolymers as Planar Optical Waveguides. *Advanced Materials*, **2005**, 17, 2442-2446	24	41
345	Crosslinked Capsules of Quantum Dots by Interfacial Assembly and Ligand Crosslinking. *Advanced Materials*, **2005**, 17, 2082-2086	24	119
344	Solvent annealing thin films of poly(isoprene-b-lactide). *Polymer*, **2005**, 46, 11635-11639	3.9	98
343	The influence of confinement and curvature on the morphology of block copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 3377-3383	2.6	123
342	Covalent stabilization of nanostructures: Robust block copolymer templates from novel thermoreactive systems. *Journal of Polymer Science Part A*, **2005**, 43, 1028-1037	2.5	82
341	Electric field and dewetting induced hierarchical structure formation in polymer/polymer/air trilayers. *Chaos*, **2005**, 15, 047506	3.3	54
340	Pulse electrodeposition and electrochemical quartz crystal microbalance techniques for high perpendicular magnetic anisotropy cobalt nanowire arrays. *Journal of Applied Physics*, **2005**, 97, 10J322	2.5	23
339	Nano-patterned Growth of Ge Quantum Dots for Infrared Detector Applications. *Materials Research Society Symposia Proceedings*, **2005**, 891, 1		1
338	Symmetric-to-asymmetric transition in triblock copolymer-homopolymer blends. *Physical Review Letters*, **2004**, 93, 145701	7.4	16
337	Block Copolymers under Cylindrical Confinement. *Macromolecules*, **2004**, 37, 5660-5664	5.5	257
336	Curving and frustrating flatland. *Science*, **2004**, 306, 76	33.3	326
335	Effect of Polymer-Substrate Interactions on the Glass Transition of Polymer Thin Films. *AIP Conference Proceedings*, **2004**,	0	1

334	Hierarchical nanoparticle assemblies formed by decorating breath figures. *Nature Materials*, **2004**, 3, 302-6	27	323
333	Effect of ionic impurities on the electric field alignment of diblock copolymer thin films. *Colloid and Polymer Science*, **2004**, 282, 927-931	2.4	21
332	The effects of varied imidization conditions on rubbed polyimide film surface morphology. *Journal of Applied Polymer Science*, **2004**, 93, 1192-1197	2.9	4
331	Highly Oriented and Ordered Arrays from Block Copolymers via Solvent Evaporation. *Advanced Materials*, **2004**, 16, 226-231	24	831
330	Enhancement in the Orientation of the Microdomain in Block Copolymer Thin Films upon the Addition of Homopolymer. *Advanced Materials*, **2004**, 16, 533-536	24	126
329	Solvent-Induced Ordering in Thin Film Diblock Copolymer/Homopolymer Mixtures. *Advanced Materials*, **2004**, 16, 2119-2123	24	234
328	Growth of Silicon Oxide in Thin Film Block Copolymer Scaffolds. *Advanced Materials*, **2004**, 16, 702-706	24	55
327	Fibroblast adhesion to micro- and nano-heterogeneous topography using diblock copolymers and homopolymers. *Journal of Biomedical Materials Research Part B*, **2004**, 71, 462-9		25
326	Block Copolymer Domain Reorientation in an Electric Field: An in-Situ Small-Angle X-ray Scattering Study. *Macromolecules*, **2004**, 37, 2538-2543	5.5	45
325	Nano- to Macro-Sized Heterogeneities Using Cleavable Diblock Copolymers. *Macromolecules*, **2004**, 37, 9639-9645	5.5	44
324	Electric Field Alignment of Symmetric Diblock Copolymer Thin Films. *Macromolecules*, **2004**, 37, 2625-2629	5.5	108
323	Electrically Induced Patterning in Block Copolymer Films. *Macromolecules*, **2004**, 37, 5358-5363	5.5	71
322	Inorganic Nanodots from Thin Films of Block Copolymers. *Nano Letters*, **2004**, 4, 1841-1844	11.5	112
321	Scattering Study on the Selective Solvent Swelling Induced Surface Reconstruction. *Macromolecules* , **2004**, 37, 2972-2977	5.5	76
320	Electric Field Induced Sphere-to-Cylinder Transition in Diblock Copolymer Thin Films. *Macromolecules*, **2004**, 37, 6980-6984	5.5	91
319	Fabrication of a gradient heterogeneous surface using homopolymers and diblock copolymers. *Langmuir*, **2004**, 20, 5952-7	4	22
318	Complex Phase Behavior of a Weakly Interacting Binary Polymer Blend. *Macromolecules*, **2004**, 37, 5851-5855	5.5	27
317	Closed-Loop Phase Behavior of Polystyrene-block-poly(n-pentyl methacrylate) Copolymers with Various Block Length Ratios. *Macromolecules*, **2004**, 37, 3717-3724	5.5	45

316	Aspects of electrohydrodynamic instabilities at polymer interfaces. *Fibers and Polymers*, **2003**, 4, 1-7	2	13
315	Block Copolymer Surface Reconstuction: A Reversible Route to Nanoporous Films. *Advanced Functional Materials*, **2003**, 13, 698-702	15.6	168
314	Volume Contractions Induced by Crosslinking: A Novel Route to Nanoporous Polymer Films. *Advanced Materials*, **2003**, 15, 1247-1250	24	81
313	On the Replication of Block Copolymer Templates by Poly(dimethylsiloxane) Elastomers. *Advanced Materials*, **2003**, 15, 811-814	24	56
312	Directed Deposition of Nanoparticles Using Diblock Copolymer Templates. *Advanced Materials*, **2003**, 15, 221-224	24	133
311	Spontaneous Vertical Ordering and Pyrolytic Formation of Nanoscopic Ceramic Patterns from Poly(styrene-b-ferrocenylsilane). *Advanced Materials*, **2003**, 15, 297-300	24	123
310	Macromolecules at surfaces: Research challenges and opportunities from tribology to biology. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 2755-2793	2.6	144
309	Hierarchical structure formation and pattern replication induced by an electric field. *Nature Materials*, **2003**, 2, 48-52	27	244
308	Phase Behavior of Polystyrene-block-poly(n-alkyl methacrylate)s Dilated with Carbon Dioxide. *Macromolecules*, **2003**, 36, 4029-4036	5.5	45
307	Sequential, Orthogonal Fields: A Path to Long-Range, 3-D Order in Block Copolymer Thin Films. *Macromolecules*, **2003**, 36, 7296-7300	5.5	48
306	Structure of End-Grafted Polymer Brushes in Liquid and Supercritical Carbon Dioxide: A Neutron Reflectivity Study. *Macromolecules*, **2003**, 36, 3365-3373	5.5	54
305	Development of Poly(imide-b-amic acid) Multiblock Copolymer Thin Film. *Macromolecules*, **2003**, 36, 4976-4982	5.5	23
304	Precise Control of Nanopore Size in Thin Film Using Mixtures of Asymmetric Block Copolymer and Homopolymer. *Macromolecules*, **2003**, 36, 10126-10129	5.5	81
303	Pressure Effects on the Phase Behavior of Styrene/n-Alkyl Methacrylate Block Copolymers. *Macromolecules*, **2003**, 36, 3351-3356	5.5	69
302	Ultrathin cross-linked nanoparticle membranes. *Journal of the American Chemical Society*, **2003**, 125, 12690-1	16.4	253
301	Photolysis of Compressed Sodium Azide (NaN3) as a Synthetic Pathway to Nitrogen Materials. *Journal of Physical Chemistry A*, **2003**, 107, 944-947	2.8	22
300	Long-Range Ordering of Diblock Copolymers Induced by Droplet Pinning. *Langmuir*, **2003**, 19, 9910-9913	4	151
299	Nanoparticle assembly and transport at liquid-liquid interfaces. *Science*, **2003**, 299, 226-9	33.3	858

298	Self-Diffusion of Polystyrene in a CO2-Swollen Polystyrene Matrix: A Real Time Study Using Neutron Reflectivity. *Macromolecules*, **2003**, 36, 346-352	5.5	42
297	Interfacial Energy Effects on the Electric Field Alignment of Symmetric Diblock Copolymers. *Macromolecules*, **2003**, 36, 6178-6182	5.5	88
296	Phase Behavior of Mixtures of Block Copolymer and Homopolymers in Thin Films and Bulk. *Macromolecules*, **2003**, 36, 3626-3634	5.5	108
295	Effect of hydrostatic pressure on closed-loop phase behavior of block copolymers. *Physical Review Letters*, **2003**, 90, 235501	7.4	79
294	Controlling Subcritical Crack Growth at Epoxy/Glass Interfaces. *Journal of Electronic Packaging, Transactions of the ASME*, **2002**, 124, 328-333	2	5
293	A Rapid Route to Arrays of Nanostructures in Thin Films. *Advanced Materials*, **2002**, 14, 1373-1376	24	217
292	Closed-loop phase behaviour in block copolymers. *Nature Materials*, **2002**, 1, 114-7	27	97
291	Crystalline structure of a liquid crystal forming ligated twin. *Journal of Materials Science*, **2002**, 37, 389-395	1.3	
290	Fatigue resistance of silane-bonded epoxy/glass interfaces using neat and rubber-toughened epoxies. *Journal of Materials Science*, **2002**, 37, 3269-3276	4.3	6
289	Nanofabrication of integrated magnetoelectronic devices using patterned self-assembled copolymer templates. *Applied Physics Letters*, **2002**, 81, 3479-3481	3.4	63
288	Nanostructures and the proximity effect. *Journal Physics D: Applied Physics*, **2002**, 35, 2398-2402	3	25
287	Pathways toward Electric Field Induced Alignment of Block Copolymers. *Macromolecules*, **2002**, 35, 8106-8110	5.5	137
286	Influence of Dendrimer Additives on the Dewetting of Thin Polystyrene Films. *Langmuir*, **2002**, 18, 1877-1882	4	81
285	Electric Field Induced Dewetting at Polymer/Polymer Interfaces. *Macromolecules*, **2002**, 35, 6255-6262	5.5	89
284	Synthesis and Thin Film Characterization of Poly(styrene-block-methyl methacrylate) Containing an Anthracene Dimer Photocleavable Junction Point. *Macromolecules*, **2002**, 35, 4271-4276	5.5	79
283	Structure Formation at the Interface of Liquid/Liquid Bilayer in Electric Field. *Macromolecules*, **2002**, 35, 3971-3976	5.5	146
282	Surface-responsive materials. *Science*, **2002**, 297, 964-7	33.3	451
281	Phase Behavior of Polystyrene and Poly(n-pentyl methacrylate) Blend. *Macromolecules*, **2002**, 35, 8676-8680	5.5	39

280	A Simple Route to Metal Nanodots and Nanoporous Metal Films. *Nano Letters*, **2002**, 2, 933-936	11.5	221
279	Terabit Density Cobalt Nanowire Arrays With Tunable Magnetic Properties. *Materials Research Society Symposia Proceedings*, **2002**, 721, 1		5
278	Fatigue and Durability of Silane-Bonded Epoxy/Glass Interfaces **2001**, 76, 335-351		4
277	The influence of molecular weight on nanoporous polymer films. *Polymer*, **2001**, 42, 9091-9095	3.9	144
276	Contact of elastic solids with rough surfaces. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 1848-1854	2.6	36
275	Atomic force microscopy study of rubbed polyimide films. *Journal of Applied Polymer Science*, **2001**, 80, 1470-1477	2.9	9
274	Ordering in thin films of asymmetric diblock copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 663-668	2.6	72
273	A Route to Nanoscopic SiO2 Posts via Block Copolymer Templates. *Advanced Materials*, **2001**, 13, 795-797	4	170
272	On exfoliation of montmorillonite in epoxy. *Polymer*, **2001**, 42, 5947-5952	3.9	290
271	Electrohydrodynamic instabilities in polymer films. *Europhysics Letters*, **2001**, 53, 518-524	1.6	251
270	Tailoring exchange bias with magnetic nanostructures. *Physical Review B*, **2001**, 63,	3.3	127
269	A simple model for baroplastic behavior in block copolymer melts. *Journal of Chemical Physics*, **2001** , 114, 8205-8209	3.9	53
268	Integration of self-assembled diblock copolymers for semiconductor capacitor fabrication. *Applied Physics Letters*, **2001**, 79, 409-411	3.4	317
267	Confined thin film diblock copolymer in the presence of an electric field. *Journal of Chemical Physics* , **2001**, 115, 1559-1564	3.9	69
266	Electric field induced instabilities at liquid/liquid interfaces. *Journal of Chemical Physics*, **2001**, 114, 2377-2381	3.9	171
265	Fabrication and Characterization of Nanoelectrode Arrays Formed via Block Copolymer Self-Assembly. *Langmuir*, **2001**, 17, 6396-6398	4	124
264	Effect of Interfacial Interactions on the Glass Transition of Polymer Thin Films. *Macromolecules*, **2001**, 34, 5535-5539	5.5	250
263	Enhancement of Diblock Copolymer Ordering Kinetics by Supercritical Carbon Dioxide Annealing. *Macromolecules*, **2001**, 34, 7923-7925	5.5	33

262	Chain Conformation in Ultrathin Polymer Films Using Small-Angle Neutron Scattering. *Macromolecules*, **2001**, 34, 559-567	5.5	93
261	Orientationally Registered Crystals in Thin Film Crystalline/Amorphous Block Copolymers. *Macromolecules*, **2001**, 34, 2398-2399	5.5	41
260	Controlled Adsorption of End-Functionalized Polystyrene to Silicon-Supported Tris(trimethylsiloxy)silyl Monolayers. *Langmuir*, **2001**, 17, 6547-6552	4	26
259	Dynamic Structure of a Protein Hydrogel: A Solid-State NMR Study. *Macromolecules*, **2001**, 34, 8675-8685	5.5	47
258	Propagation of Nanopatterned Substrate Templated Ordering of Block Copolymers in Thick Films. *Macromolecules*, **2001**, 34, 1487-1492	5.5	122
257	Mobility of Polymers at the Air/Polymer Interface. *Macromolecules*, **2001**, 34, 3484-3492	5.5	116
256	Structural Evolution of Multilayered, Crystalline-Amorphous Diblock Copolymer Thin Films. *Macromolecules*, **2001**, 34, 2876-2883	5.5	64
255	Nanoparticles and Polymers. Bricks and Mortar Self-Assembly of Nanostructures. *Materials Research Society Symposia Proceedings*, **2001**, 635, C1.3.1		
254	Polymer dynamics. Chance encounters. *Science*, **2001**, 293, 446-7	33.3	10
253	Teflon and Teflon/Al (nanocrystalline) decomposition chemistry at high pressures. *AIP Conference Proceedings*, **2000**,	0	20
252	Block copolymers as nanoscopic templates. *Macromolecular Symposia*, **2000**, 159, 77-88	0.8	25
251	Nanoscopic Templates from Oriented Block Copolymer Films. *Advanced Materials*, **2000**, 12, 787-791	24	565
250	Electrically induced structure formation and pattern transfer. *Nature*, **2000**, 403, 874-7	50.4	677
249	Self-assembly of nanoparticles into structured spherical and network aggregates. *Nature*, **2000**, 404, 746-8	50.4	1010
248	Structures of dinitroazetidine and three of its carbonyl derivatives. *Journal of Chemical Crystallography*, **2000**, 30, 647-653	0.5	
247	Temperature measurements of a thermal wave at static high pressures. *Applied Physics Letters*, **2000**, 76, 2460-2462	3.4	1
246	Underwater shock measurements using a ruby pressure gauge. *Applied Physics Letters*, **2000**, 77, 684-686	3.4	3
245	All-optical technique for measuring thermal properties of materials at static high pressure. *Review of Scientific Instruments*, **2000**, 71, 3846	1.7	14

244	Ultrahigh-density nanowire arrays grown in self-assembled diblock copolymer templates. *Science*, **2000**, 290, 2126-9	33.3	1876
243	Mixed Lamellar Films:Evolution, Commensurability Effects, and Preferential Defect Formation. *Macromolecules*, **2000**, 33, 80-88	5.5	104
242	Reducing Substrate Pinning of Block Copolymer Microdomains with a Buffer Layer of Polymer Brushes. *Macromolecules*, **2000**, 33, 857-865	5.5	102
241	Overcoming Interfacial Interactions with Electric Fields. *Macromolecules*, **2000**, 33, 3250-3253	5.5	262
240	One-Step Formation of Functionalized Block Copolymers. *Macromolecules*, **2000**, 33, 1505-1507	5.5	182
239	Structural Properties of Ammonium Perchlorate Compressed to 5.6 GPa. *Journal of Physical Chemistry A*, **2000**, 104, 11188-11193	2.8	52
238	Computational and Experimental Infrared Spectra of 1,4-Dinitropiperazine and Vibrational Mode Assignment. *Journal of Physical Chemistry A*, **2000**, 104, 8898-8907	2.8	1
237	The laser-induced decomposition of TATB at static high pressure. *AIP Conference Proceedings*, **2000**,	0	1
236	Phase Transitions in Polymer Blends and Block Copolymers Induced by Selective Dilation with Supercritical CO2 **2000**, 277-289		2
235	Nanoscopic Templates from Oriented Block Copolymer Films **2000**, 12, 787		1
234	Nanoscopic Templates from Oriented Block Copolymer Films **2000**, 12, 787		16
233	Some Thermodynamic Considerations of the Lower Disorder-to-Order Transition of Diblock Copolymers. *ACS Symposium Series*, **1999**, 261-269	0.4	
232	Role of AlO2 chemistry in the laser-induced vaporization of Al films in air. *Journal of Chemical Physics*, **1999**, 111, 445-448	3.9	24
231	Resistance heating of the gasket in a gem-anvil high pressure cell. *Review of Scientific Instruments*, **1999**, 70, 4316-4323	1.7	8
230	Nanoporous Polyimides **1999**, 1-43		70
229	Non-uniform composition profiles in thin film polymeric nanofoams. *Polymer*, **1999**, 40, 2547-2553	3.9	10
228	Chain conformation in ultrathin polymer films. *Nature*, **1999**, 400, 146-149	50.4	242
227	Polymers on Nanoperiodic, Heterogeneous Surfaces. *Physical Review Letters*, **1999**, 82, 2602-2605	7.4	406

226	MATERIALS SCIENCE:Tack--a Sticky Subject. *Science*, **1999**, 285, 1219-1220	33.3	25
225	Neutrality Conditions for Block Copolymer Systems on Random Copolymer Brush Surfaces. *Macromolecules*, **1999**, 32, 5299-5303	5.5	115
224	Controlled Synthesis of Polymer Brushes by "Living" Free Radical Polymerization Techniques. *Macromolecules*, **1999**, 32, 1424-1431	5.5	825
223	Structure Development during Crystallization of Homogeneous Copolymers of Ethene and 1-Octene: Time-Resolved Synchrotron X-ray and SALS Measurements. *Macromolecules*, **1999**, 32, 765-770	5.5	65
222	Adhesion of Polymer Interfaces Reinforced with Random and Diblock Copolymers as a Function of Geometry. *Macromolecules*, **1999**, 32, 6254-6260	5.5	38
221	Phase Separation in Polymer Blends and Diblock Copolymers Induced by Compressible Solvents. *Macromolecules*, **1999**, 32, 7737-7740	5.5	47
220	Phase Coherence and Microphase Separation Transitions in Diblock Copolymer Thin Films. *Macromolecules*, **1999**, 32, 4832-4837	5.5	45
219	Expansion of Polystyrene Using Supercritical Carbon Dioxide: Effects of Molecular Weight, Polydispersity, and Low Molecular Weight Components. *Macromolecules*, **1999**, 32, 7610-7616	5.5	128
218	Manipulating Copolymers with Confinement and Interfacial Interactions. *ACS Symposium Series*, **1999**, 140-152	0.4	
217	Fatigue of Silane Bonded Epoxy/Glass Interfaces. *Materials Research Society Symposia Proceedings*, **1999**, 563, 291		2
216	Nanodomain control in copolymer thin films. *Nature*, **1998**, 395, 757-758	50.4	272
215	Imidization and interdiffusion of poly(amic ethyl ester) precursors of PMDA/3,4?-ODA. *Journal of Polymer Science, Part B: Polymer Physics*, **1998**, 36, 2247-2258	2.6	9
214	Small-Angle Neutron Scattering Studies on Thin Films of Isotopic Polystyrene Blends. *Macromolecules*, **1998**, 31, 9247-9252	5.5	15
213	Polyimide Nanofoams from Aliphatic Polyester-Based Copolymers. *Chemistry of Materials*, **1998**, 10, 39-49	9.6	57
212	Large-Area Domain Alignment in Block Copolymer Thin Films Using Electric Fields. *Macromolecules*, **1998**, 31, 4399-4401	5.5	149
211	The Effect of Hydrostatic Pressure on the Lower Critical Ordering Transition in Diblock Copolymers. *Macromolecules*, **1998**, 31, 6493-6498	5.5	80
210	X-PEEM Study on Surface Orientation of Stylized and Rubbed Polyimides. *Macromolecules*, **1998**, 31, 4957-62	5.5	38
209	Decomposition of 5-Nitro-2,4-dihydro-3H-1,2,4-triazol-3-one (NTO): Energetics Associated with Several Proposed Initiation Routes. *Journal of Physical Chemistry A*, **1998**, 102, 471-477	2.8	35

208	Using Surface Active Random Copolymers To Control the Domain Orientation in Diblock Copolymer Thin Films. *Macromolecules*, **1998**, 31, 7641-7650	5.5	280
207	Phase-Separation-Induced Surface Patterns in Thin Polymer Blend Films. *Macromolecules*, **1998**, 31, 857-862	5.5	176
206	Phase Behavior of Diblock Copolymers between Styrene and n-Alkyl Methacrylates. *Macromolecules*, **1998**, 31, 8509-8516	5.5	98
205	Atomic structure of solid and liquid polyethylene oxide. *Journal of Chemical Physics*, **1998**, 109, 7005-7010	3.9	48
204	Interfacial Segregation in Disordered Block Copolymers: Effect of Tunable Surface Potentials. *Physical Review Letters*, **1997**, 79, 237-240	7.4	223
203	A high pressure optical cell utilizing single crystal cubic zirconia anvil windows. *Review of Scientific Instruments*, **1997**, 68, 1835-1840	1.7	12
202	Polyimide Nanofoams Based on Ordered Polyimides Derived from Poly(amic alkyl esters): PMDA/4-BDAF. *Chemistry of Materials*, **1997**, 9, 105-118	9.6	49
201	Ordered Diblock Copolymer Films on Random Copolymer Brushes. *Macromolecules*, **1997**, 30, 6810-6813	5.5	237
200	Pressure/Temperature and Reaction Phase Diagram for Dinitro Azetidinium Dinitramide. *Journal of Physical Chemistry B*, **1997**, 101, 3566-3570	3.4	7
199	Surface Relaxations in Polymers. *Macromolecules*, **1997**, 30, 7768-7771	5.5	144
198	Controlling Polymer-Surface Interactions with Random Copolymer Brushes. *Science*, **1997**, 275, 1458-1460	33.3	1117
197	The one that got away. *Nature*, **1997**, 386, 771-772	50.4	15
196	Forward recoil spectrometry study of the diffusion of PMDA/ODA-based poly(amic ethyl esters). *Polymer*, **1997**, 38, 5073-5078	3.9	9
195	Transmission electron microscopy of 3F/PMDA-polypropylene oxide triblock copolymer based nanofoams. *Journal of Polymer Science, Part B: Polymer Physics*, **1997**, 35, 1067-1076	2.6	10
194	Time resolved optical spectroscopy to examine chemical decomposition of energetic materials under static high pressure and pulsed heating conditions. *Chemical Physics Letters*, **1997**, 267, 351-358	2.5	10
193	Polyimide Nanofoams from Phase Separated Triblock Copolymers **1997**, 529-542		
192	Interphase Mixing in Symmetric Diblock Copolymers Determined by Proton–Deuterium CP/MAS NMR. *Macromolecules*, **1996**, 29, 2201-2204	5.5	18
191	Pressure, Temperature Reaction Phase Diagram for Ammonium Dinitramide. *The Journal of Physical Chemistry*, **1996**, 100, 3248-3251		38

190	High-Resolution Profiling of the Polyimide□Polyimide Interface. *Macromolecules*, **1996**, 29, 6880-6891	5.5	19
189	Well-Defined Random Copolymers by a □living□ Free-Radical Polymerization Process. *Macromolecules*, **1996**, 29, 2686-2688	5.5	171
188	Nanofoam Porosity Measured by Infrared Spectroscopy and Refractive Index. *Materials Research Society Symposia Proceedings*, **1996**, 431, 475		
187	A Monte Carlo Simulation of Asymmetric Random Copolymers at an Immiscible Interface. *Macromolecules*, **1996**, 29, 4120-4124	5.5	13
186	Reactions of Benzotriazolo[2,1-a]benzotriazole Derivatives. 2. An Unusual Hydrolysis-Oxidation Reaction. *Journal of Organic Chemistry*, **1996**, 61, 1898-1900	4.2	12
185	Homopolymer Interfaces Reinforced with Random Copolymers. *Macromolecules*, **1996**, 29, 5493-5496	5.5	77
184	Polyimide Nanofoams from Caprolactone-Based Copolymers. *Macromolecules*, **1996**, 29, 3642-3646	5.5	33
183	Polymer Mobility in Thin Films. *Macromolecules*, **1996**, 29, 6531-6534	5.5	300
182	Observed surface energy effects in confined diblock copolymers. *Physical Review Letters*, **1996**, 76, 2503-2506	7.4	303
181	Entanglements at Polymer Surfaces and Interfaces. *Macromolecules*, **1996**, 29, 798-800	5.5	222
180	Characterization of thin Polymeric Nanofoam films by Transmission Electron Microscopy and Small Angle Neutron Scattering. *Materials Research Society Symposia Proceedings*, **1996**, 461, 103		1
179	Electric Field Induced Control of Thin Film Diblock Copolymer Domain Orientation. *Materials Research Society Symposia Proceedings*, **1996**, 461, 109		
178	NEXAFS Studies on the Surface Orientation of Buffed Polyimides. *Macromolecules*, **1996**, 29, 8334-8342	5.5	120
177	Local Control of Microdomain Orientation in Diblock Copolymer Thin Films with Electric Fields. *Science*, **1996**, 273, 931-3	33.3	677
176	Interdiffusion of polymers across interfaces. *Journal of Polymer Science, Part B: Polymer Physics*, **1996**, 34, 2919-2940	2.6	45
175	On the reflectivity of polymers: Neutrons and X-rays. *Physica B: Condensed Matter*, **1996**, 221, 267-283	2.8	98
174	Neutron reflectivity measurements of homopolymer interfaces reinforced with random copolymers. *Physica B: Condensed Matter*, **1996**, 221, 306-308	2.8	12
173	Copolymers at surfaces and interfaces. *Current Opinion in Colloid and Interface Science*, **1996**, 1, 107-115	7.6	83

172	Characterizing Polymer Surfaces and Interfaces. *MRS Bulletin*, **1996**, 21, 49-53	3.2	11
171	Nanofoam porosity by infrared spectroscopy. *Journal of Polymer Science, Part B: Polymer Physics*, **1995**, 33, 253-257	2.6	20
170	Near-surface alignment of polymers in rubbed films. *Nature*, **1995**, 374, 709-711	50.4	332
169	High temperature polymer nanofoams based on amorphous, high Tg polyimides. *Polymer*, **1995**, 36, 987-1002	3.9	47
168	Crosslinked polyimide foams derived from pyromellitic dianhydride and 1,1-bis(4-aminophenyl)-1-phenyl-2,2,3-trifluoroethane with poly(α-methylstyrene). *Polymer*, **1995**, 36, 1315-1320	3.9	19
167	Polyimide foams prepared from homopolymer/copolymer mixtures. *Polymer*, **1995**, 36, 4529-4534	3.9	12
166	Bassereau et al. reply. *Physical Review Letters*, **1995**, 74, 4961	7.4	5
165	Thick film positive photoresist: Development and resolution enhancement technique. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1995**, 13, 3000		7
164	Solvent Penetration into Ordered Thin Films of Diblock Copolymers. *Macromolecules*, **1995**, 28, 1470-1474	5.5	18
163	Synchrotron X-ray Scattering Studies of Crystallization of Poly(ether-ether-ketone) from the Glass and Structural Changes during Subsequent Heating-Cooling Processes. *Macromolecules*, **1995**, 28, 8491-8503	5.5	104
162	Rheology of the Lower Critical Ordering Transition. *Macromolecules*, **1995**, 28, 1129-1134	5.5	47
161	Small Angle Neutron Scattering Studies on Ultrathin Films. *Macromolecules*, **1995**, 28, 787-789	5.5	25
160	Polyimide Nanofoams Prepared from Styrenic Block Copolymers. *ACS Symposium Series*, **1995**, 425-438	0.4	2
159	Free Structure Confinement of Diblock Copolymer Multilayers. *Macromolecules*, **1995**, 28, 8092-8095	5.5	20
158	Polyimide Nanofoams For Low Dielectric Applications. *Materials Research Society Symposia Proceedings*, **1995**, 381, 79		30
157	Time Resolved Optical Spectroscopy to Examine Chemical Decomposition of Energetic Materials Under Static High Pressure and Pulsed Heating Conditions. *Materials Research Society Symposia Proceedings*, **1995**, 418, 385		2
156	Time Resolved Emission Studies of Aluminum and Water High Pressure Reactions. *Materials Research Society Symposia Proceedings*, **1995**, 418, 391		1
155	Surface orientation of liquid crystalline poly(alkylsilanes). *Acta Polymerica*, **1995**, 46, 60-63		6

154	High-pressure matrix isolation of heterogeneous condensed phase chemical reactions under extreme conditions. *Chemical Physics Letters*, **1995**, 234, 195-202	2.5	11
153	High temperature nanofoams derived from rigid and semi-rigid polyimides. *Polymer*, **1995**, 36, 2685-2693	3.9	56
152	Topology of forward scattering of neutrons from imperfect multilayers. *Physical Review B*, **1994**, 50, 9565-9568	3.3	10
151	Observed frustration in confined block copolymers. *Physical Review Letters*, **1994**, 72, 2899-2902	7.4	235
150	Grazing incidence prompt gamma emissions and resonance-enhanced neutron standing waves in a thin film. *Physical Review Letters*, **1994**, 72, 3044-3047	7.4	41
149	Observation of x-ray speckle by coherent scattering at grazing incidence. *Physical Review Letters*, **1994**, 73, 82-85	7.4	48
148	Swelling effects in semidilute block copolymer solutions. *Journal of Chemical Physics*, **1994**, 101, 5213-5218	3.3	11
147	Photon tunnelling microscopy of polyethylene single crystals. *Polymer*, **1994**, 35, 1137-1141	3.9	2
146	Monte Carlo simulations of the free surface of polymer melts. *Chemical Engineering Science*, **1994**, 49, 2899-2906	4.4	23
145	Time-resolved SAXS studies of morphological changes in cold crystallized poly(ethylene terephthalate) during annealing and heating. *Colloid and Polymer Science*, **1994**, 272, 1344-1351	2.4	45
144	On the microphase separation kinetics of symmetric diblock copolymers. *Colloid and Polymer Science*, **1994**, 272, 1373-1379	2.4	7
143	A method to confine thin solid organic films between flat rigid walls. *Thin Solid Films*, **1994**, 252, 75-77	2.2	10
142	Thermoplastic toughened styrenic thermosets: synthesis, properties and consequences of radical based cure chemistry. *Polymer*, **1994**, 35, 291-299	3.9	4
141	A lower critical ordering transition in a diblock copolymer melt. *Nature*, **1994**, 368, 729-731	50.4	154
140	A Free Energy Model for Confined Diblock Copolymers. *Macromolecules*, **1994**, 27, 6225-6228	5.5	265
139	Evolution of order in thin block copolymer films. *Macromolecules*, **1994**, 27, 749-755	5.5	78
138	Interdiffusion of Polymers at Short Times. *Macromolecules*, **1994**, 27, 6973-6979	5.5	61
137	Block Copolymer Mixtures As Revealed By Neutron Reflectivity. *Macromolecules*, **1994**, 27, 7447-7453	5.5	55

136	Short-Time Interdiffusion at Polymer Interfaces. *Macromolecules*, **1994**, 27, 4407-4409	5.5	27
135	Small-Angle Neutron Scattering from Deuterated Polystyrene/Poly(butyl methacrylate) Homopolymer Blend Mixtures. *Macromolecules*, **1994**, 27, 2357-2359	5.5	25
134	Resonance Enhanced Neutron Standing Waves in Thin Films. *Materials Research Society Symposia Proceedings*, **1994**, 376, 259		
133	Evolution of Ordering in Thin Films of Symmetric Diblock Copolymers **1994**, 217-223		7
132	Thin films of diblock copolymers: windows into bulk and reduced dimensional phenomena. *Physica A: Statistical Mechanics and Its Applications*, **1993**, 200, 713-721	3.3	7
131	Pressure/temperature phase diagram of hexanitrohexaazaisowurtzitane. *The Journal of Physical Chemistry*, **1993**, 97, 1993-1997		90
130	Small-angle x-ray scattering and pulsed NMR studies of polyurethane interpenetrating polymer networks. *Macromolecules*, **1993**, 26, 1922-1929	5.5	14
129	Segment distributions in lamellar diblock copolymers. *Macromolecules*, **1993**, 26, 3929-3936	5.5	140
128	Grazing incidence x-ray scattering studies of thin films of an aromatic polyimide. *Macromolecules*, **1993**, 26, 2847-2859	5.5	117
127	Segregation of chain ends to polymer melt surfaces and interfaces. *Macromolecules*, **1993**, 26, 561-562	5.5	77
126	Changes in polystyrene and poly(methyl methacrylate) interactions with isotopic substitution. *Macromolecules*, **1993**, 26, 5819-5819	5.5	58
125	On the birefringence of multilayered symmetric diblock copolymer films. *Macromolecules*, **1993**, 26, 5436-5440	5.5	2
124	Distributions of chain ends and junction points in ordered block copolymers. *Macromolecules*, **1993**, 26, 1047-1052	5.5	46
123	Reversal of the isotopic effect in the surface behavior of binary polymer blends. *Journal of Chemical Physics*, **1993**, 98, 4163-4173	3.9	101
122	Free surfaces of polymer blends. II. Effects of molecular weight and applications to asymmetric polymer blends. *Journal of Chemical Physics*, **1993**, 99, 4041-4050	3.9	39
121	Topological coarsening of symmetric diblock copolymer films: Model 2D systems. *Physical Review Letters*, **1993**, 71, 1716-1719	7.4	68
120	Experimental study of the surface structure of diblock copolymer films using microscopy and x-ray scattering. *Journal of Chemical Physics*, **1993**, 98, 2376-2386	3.9	43
119	Russell et al. reply. *Physical Review Letters*, **1993**, 70, 1352	7.4	2

118	The effect of finite film thickness on the surface segregation in symmetric binary polymer mixtures. *Journal of Chemical Physics*, **1993**, 99, 656-663	3.9	59
117	Free surfaces of polymer blends. I. Theoretical framework and application to symmetric polymer blends. *Journal of Chemical Physics*, **1993**, 98, 6516-6525	3.9	19
116	Profiling Polyimide-Polyimide Interfaces. *Materials Research Society Symposia Proceedings*, **1993**, 305, 153		
115	Very thin films of symmetric diblock copolymers **1993**, 88-92		
114	The ordering of thin films of symmetric diblock copolymers **1993**, 97-100		2
113	Solvent and isomer effects on the imidization of pyromellitic dianhydride-oxydianiline-based poly(amic ethyl ester)s. *Polymer*, **1993**, 34, 4524-4530	3.9	28
112	High temperature polymer foams. *Polymer*, **1993**, 34, 4717-4726	3.9	91
111	Direct observation of reptation at polymer interfaces. *Nature*, **1993**, 365, 235-237	50.4	68
110	Macro- vs microphase separation in copolymer/homopolymer mixtures. *Macromolecules*, **1993**, 26, 2860-2865	3.9	26
109	Configuration of grafted polystyrene chains in the melt: Temperature and concentration dependence. *Physical Review Letters*, **1992**, 69, 776-779	7.4	34
108	Studies of surface and interface segregation in polymer blends by secondary ion mass spectrometry. *Molecular Physics*, **1992**, 76, 937-950	1.7	82
107	High-pressure phase transition in .gamma.-hexanitrohexaazaisowurtzitane. *The Journal of Physical Chemistry*, **1992**, 96, 5509-5512		57
106	Thin film order of symmetric diblock copolymers. *Makromolekulare Chemie Macromolecular Symposia*, **1992**, 62, 157-165		6
105	Ordering of thin diblock copolymer films. *Physical Review Letters*, **1992**, 68, 67-70	7.4	160
104	Homopolymer distributions in ordered block copolymers. *Macromolecules*, **1992**, 25, 6523-6531	5.5	112
103	Hairpin configurations of triblock copolymers at homopolymer interfaces. *Macromolecules*, **1992**, 25, 5783-5789	5.5	14
102	Adsorption of copolymer chains from a melt onto a flat surface. *Macromolecules*, **1992**, 25, 783-787	5.5	26
101	Interdiffusion at polyimide interfaces. *Polymer*, **1992**, 33, 3382-3387	3.9	16

100	Soft x-ray diffraction studies on polymeric Langmuir-Blodgett films. *Thin Solid Films*, **1991**, 199, 161-172	2.2	6
99	Preparation and characterization of thin polymer bilayer films by neutron reflection. *Thin Solid Films*, **1991**, 202, 345-350	2.2	7
98	Imide-aryl ether phenylquinoxaline random copolymers. *Polymer*, **1991**, 32, 950-958	3.9	12
97	Thermal Decomposition of Energetic Materials. 43. Fast thermolysis of cubylammonium nitrate and cubane-1,4-diammonium dinitrate. *Propellants, Explosives, Pyrotechnics*, **1991**, 16, 27-30	1.7	4
96	Thermal decomposition of energetic materials. 44. Rapid thermal decomposition of the propyl-1,3-diammonium salts of NO 3 and ClO 4 , and the crystal structure of the ClO 4 salt. *Journal of Crystallographic and Spectroscopic Research*, **1991**, 21, 167-171		7
95	Conformation of Grafted Polystyrene Chains in a Melt. *Europhysics Letters*, **1991**, 15, 725-730	1.6	20
94	Surface-induced ordering of an aromatic polyimide. *Physical Review Letters*, **1991**, 66, 1181-1184	7.4	94
93	Dynamics of (micro)phase separation during fast, bulk copolymerization: some synchrotron SAXS experiments. *Macromolecules*, **1991**, 24, 2883-2889	5.5	59
92	Segregation of low molecular weight symmetric diblock copolymers at the interface of high molecular weight homopolymers. *Macromolecules*, **1991**, 24, 2931-2935	5.5	43
91	Ordering at diblock copolymer surfaces. *Macromolecules*, **1991**, 24, 252-255	5.5	44
90	Width of homopolymer interfaces in the presence of symmetric diblock copolymers. *Macromolecules*, **1991**, 24, 5721-5726	5.5	80
89	Imide-aryl ether phenylquinoxaline block copolymers. *Macromolecules*, **1991**, 24, 4559-4566	5.5	11
88	Behavior of isotopic, binary polymer blends in the vicinity of neutral surfaces: the effects of chain-length disparity. *Macromolecules*, **1991**, 24, 3816-3820	5.5	42
87	Segment density distribution of symmetric diblock copolymers at the interface between two homopolymers as revealed by neutron reflectivity. *Macromolecules*, **1991**, 24, 1575-1582	5.5	70
86	Unconventional morphologies of symmetric, diblock copolymers due to film thickness constraints. *Macromolecules*, **1991**, 24, 6263-6269	5.5	87
85	Surface segregation in binary polymer mixtures: a lattice model. *Macromolecules*, **1991**, 24, 4909-4917	5.5	90
84	The Characterization of Polymer Interfaces. *Annual Review of Materials Research*, **1991**, 21, 249-268		43
83	Ion beam analysis of the imidization kinetics of polyamic ethyl ester. *Polymer*, **1990**, 31, 520-523	3.9	12

82	Thermal Decomposition of energetic materials. 39. Fast thermolysis patterns of poly(methyl), poly(ethyl), and primary alkylammonium mononitrate salts. *Propellants, Explosives, Pyrotechnics*, **1990**, 15, 66-72	1.7	9
81	Thermal Decomposition of Energetic Materials. 40. Fast thermolysis patterns of Alkanediammonium dinitrate salts. *Propellants, Explosives, Pyrotechnics*, **1990**, 15, 77-80	1.7	11
80	Thermal Decomposition of Energetic Materials 41. Fast thermolysis of cyclic and acyclic ethanediammonium dinitrate salts and their oxonium nitrate double salts, and the crystal structure of piperazinium dinitrate. *Propellants, Explosives, Pyrotechnics*, **1990**, 15, 81-86	1.7	6
79	Thermal Decomposition of Energetic Materials. 42. Fast thermal decomposition of five N-Methyl substituted ethanediammonium dinitrate salts. *Propellants, Explosives, Pyrotechnics*, **1990**, 15, 123-126	1.7	8
78	Imide-aryl ether benzoxazole random copolymers. *Polymer*, **1990**, 31, 2384-2392	3.9	19
77	The Form of the Enriched Surface Layer in Polymer Blends. *Europhysics Letters*, **1990**, 12, 41-46	1.6	95
76	Short-time relaxation at polymeric interfaces. *Physical Review B*, **1990**, 42, 6846-6849	3.3	75
75	Equilibrium surface composition of diblock copolymers. *Journal of Chemical Physics*, **1990**, 92, 1478-1482	3.9	65
74	The morphology of symmetric diblock copolymers as revealed by neutron reflectivity. *Journal of Chemical Physics*, **1990**, 92, 5677-5691	3.9	311
73	Temperature dependence of the interaction parameter of polystyrene and poly(methyl methacrylate). *Macromolecules*, **1990**, 23, 890-893	5.5	370
72	Microphase separation transition of a triblock copolymer. *Macromolecules*, **1990**, 23, 877-881	5.5	28
71	Concentration fluctuations in mixtures of linear and star-shaped polymers. *Macromolecules*, **1990**, 23, 654-659	5.5	24
70	A lattice model for the surface segregation of polymer chains due to molecular weight effects. *Macromolecules*, **1990**, 23, 3584-3592	5.5	111
69	Neutron reflectivity study of block copolymers adsorbed from solution. *Macromolecules*, **1990**, 23, 3860-3864	5.5	45
68	Phase-separation kinetics of mixtures of linear and star-shaped polymers. *Macromolecules*, **1990**, 23, 4452-4455	5.5	10
67	Liquid Crystalline Phases Formed by Iodine Derivatives of Semifluorinated Alkanes. *Molecular Crystals and Liquid Crystals*, **1990**, 182, 291-297	0.5	20
66	Behavior of Block Copolymers in Thin Films. *MRS Bulletin*, **1989**, 14, 33-37	3.2	6
65	Transitions to Liquid Crystalline Phases in a Semifluorinated Alkane. *Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics*, **1989**, 168, 63-82		39

64	The structural basis of transitions between highly ordered smectic phases in semifluorinated alkanes. *Liquid Crystals*, **1989**, 5, 1783-1788	2.3	78
63	Thermal decomposition of energetic materials 31Fast thermolysis of ammonium nitrate, ethylenediammonium dinitrate and hydrazinium nitrate and the relationship to the burning rate. *Combustion and Flame*, **1989**, 76, 393-401	5.3	45
62	Structural studies of Langmuir-Blodgett multilayers by means of soft X-ray diffraction. *Thin Solid Films*, **1989**, 170, 309-319	2.2	17
61	Swelling behavior of an aromatic polyimide. *Journal of Polymer Science, Part B: Polymer Physics*, **1989**, 27, 2131-2144	2.6	29
60	Investigation of the microphase separation transition in low-molecular-weight diblock copolymers. *Macromolecules*, **1989**, 22, 3380-3387	5.5	69
59	Surface interaction in solvent-cast polystyrene-poly(methyl methacrylate) diblock copolymers. *Macromolecules*, **1989**, 22, 2189-2194	5.5	76
58	Temperature dependence of tracer diffusion of homopolymers into nonequilibrium diblock copolymer structures. *Macromolecules*, **1989**, 22, 908-913	5.5	17
57	Morphological changes in polyesters and polyamides induced by blending with small concentrations of polymer diluents. *Macromolecules*, **1989**, 22, 666-675	5.5	179
56	Structural modifications in hydroxy ether-dimethyldiphenylsiloxane copolymers. *Macromolecules*, **1989**, 22, 4470-4477	5.5	24
55	Neutron reflectivity studies of the surface-induced ordering of diblock copolymer films. *Physical Review Letters*, **1989**, 62, 1852-1855	7.4	400
54	Surface-induced orientation of symmetric, diblock copolymers: a secondary ion mass-spectrometry study. *Macromolecules*, **1989**, 22, 2581-2589	5.5	323
53	Characteristics of the surface-induced orientation for symmetric diblock PS/PMMA copolymers. *Macromolecules*, **1989**, 22, 4600-4606	5.5	280
52	Order-disorder transitions in mixtures of homopolymers with diblock copolymers. *Macromolecules*, **1989**, 22, 3388-3394	5.5	25
51	Synthesis and characterization of a model saturated hydrocarbon diblock copolymer. *Macromolecules*, **1989**, 22, 2557-2564	5.5	71
50	Interfacial Segregation Effects in Mixtures of Homopolymers with Copolymers.. *Materials Research Society Symposia Proceedings*, **1989**, 171, 343		1
49	Solvent and Curing Effects on Diffusion at Polyimide Interfaces. *Materials Research Society Symposia Proceedings*, **1989**, 153, 239		5
48	Solvent and Curing Effects on Diffusion at Polyimide Interfaces. *Materials Research Society Symposia Proceedings*, **1989**, 154, 283		1
47	The Morphology of Symietric Diblock Copolymers as Revealed by Neutron Reflectivity. *Materials Research Society Symposia Proceedings*, **1989**, 166, 139		

46	Temperature Dependence of the Morphology of Thin Diblock Copolymer Films as Revealed by Neutron Reflectivity. *Materials Research Society Symposia Proceedings*, **1989**, 166, 145		1
45	Diblock Copolymers at Surfaces. *Materials Research Society Symposia Proceedings*, **1989**, 171, 317		
44	Synthesis and properties of segmented poly(hydroxyether-siloxane). *Makromolekulare Chemie Macromolecular Symposia*, **1989**, 25, 155-166		
43	Intercalibration of small-angle X-ray and neutron scattering data. *Journal of Applied Crystallography* , **1988**, 21, 629-638	3.8	146
42	Diffusion and self-adhesion of the polyimide PMDA-ODA. *Polymer*, **1988**, 29, 1807-1811	3.9	67
41	Neutron and x-ray scattering studies on semicrystalline polymer blends. *Macromolecules*, **1988**, 21, 1703-1709	5.5	167
40	The microstructure of block copolymers formed via ionic interactions. *Macromolecules*, **1988**, 21, 1709-1717	5.5	57
39	Specular reflectivity of neutrons by thin polymer films. *Macromolecules*, **1988**, 21, 1890-1893	5.5	85
38	Diffusion of homopolymers into nonequilibrium block copolymer structures. 1. Molecular weight dependence. *Macromolecules*, **1988**, 21, 3266-3273	5.5	35
37	Synthesis and properties of segmented and block poly(hydroxyether-siloxane) copolymers. *Macromolecules*, **1988**, 21, 1967-1977	5.5	15
36	Reflectivity of Soft X-Rays by Polymer Mixtures. *Materials Research Society Symposia Proceedings*, **1988**, 143, 265		2
35	Concentration fluctuations of polystyrene-polybutadiene blends. *Physical Review B*, **1987**, 35, 8566-8571	3.3	3
34	Interactions in mixtures of poly(ethylene oxide) and poly(methyl methacrylate). *Macromolecules*, **1987**, 20, 2213-2220	5.5	147
33	Small-angle x-ray scattering studies of polymer colloids: nonaqueous dispersions of poly(isobutylene)-stabilized poly(methyl methacrylate) particles. *Macromolecules*, **1987**, 20, 899-901	5.5	10
32	Observation of cluster formation in an ionomer. *Macromolecules*, **1987**, 20, 3091-3094	5.5	50
31	Intermolecular polarization transfer study of polymer blend compatibility. *Journal of Polymer Science, Part C: Polymer Letters*, **1987**, 25, 61-65		34
30	X-ray studies on the deformation of an aromatic polyimide. *Journal of Polymer Science, Part B: Polymer Physics*, **1987**, 25, 1129-1148	2.6	23
29	Interdiffusion in Polyimide Thin Films. *Materials Research Society Symposia Proceedings*, **1986**, 72, 195		1

28	Scattering Studies on Mixtures of Poly(Ethylene Oxide) with Poly(Methyl Methacrylate). *Materials Research Society Symposia Proceedings*, **1986**, 79, 87		
27	The effect of structural relaxation on the Rayleigh-Brillouin spectra of liquids consisting of chain molecules. *Polymer*, **1986**, 27, 261-264	3.9	14
26	Rutherford backscattering spectrometry studies of iodine diffusion in polyimide. *Journal of Polymer Science, Part B: Polymer Physics*, **1986**, 24, 263-277	2.6	21
25	Ionic aggregation in model ionomers. *Macromolecules*, **1986**, 19, 2877-2884	5.5	84
24	Structural characterization of semifluorinated n-alkanes. 2. Solid-solid transition behavior. *Macromolecules*, **1986**, 19, 1135-1143	5.5	148
23	Kinetics of crystallization in semicrystalline/amorphous polymer mixtures. *Macromolecules*, **1986**, 19, 1143-1152	5.5	204
22	Simultaneous SAXS-DSC study of multiple endothermic behavior in polyether-based polyurethane block copolymers. *Macromolecules*, **1986**, 19, 714-720	5.5	269
21	Simultaneous differential scanning calorimetry and small-angle x-ray scattering. *Journal of Polymer Science, Polymer Physics Edition*, **1985**, 23, 1109-1115		48
20	Observations of a gel phase in binary mixtures of semifluorinated n-alkanes with hydrocarbon liquids. *Macromolecules*, **1985**, 18, 1361-1362	5.5	97
19	Thermodynamics of phase separation in polymer mixtures. *Macromolecules*, **1985**, 18, 665-670	5.5	15
18	Phase separation in low molecular weight polymer mixtures. *Macromolecules*, **1985**, 18, 78-83	5.5	38
17	Concerning voids in polyimide. *Polymer Engineering and Science*, **1984**, 24, 345-349	2.3	22
16	A small-angle X-ray scattering study of an aromatic polyimide. *Journal of Polymer Science, Polymer Physics Edition*, **1984**, 22, 1105-1117		95
15	Structural studies of semifluorinated n-alkanes. 1. Synthesis and characterization of F(CF2)n(CH2)mH in the solid state. *Macromolecules*, **1984**, 17, 2786-2794	5.5	213
14	Rheooptical investigation of the transition behavior of polyphosphazenes. *Macromolecules*, **1984**, 17, 1795-1799	5.5	14
13	An investigation of the compatibility and morphology of semicrystalline poly(ε-caprolactone)/poly(vinyl chloride) blends. *Journal of Polymer Science, Polymer Physics Edition*, **1983**, 21, 999-1010		61
12	In-plane orientation of polyimide. *Journal of Polymer Science, Polymer Physics Edition*, **1983**, 21, 1745-1756		148
11	An absolute intensity standard for small-angle X-ray scattering measured with position-sensitive detectors. *Journal of Applied Crystallography*, **1983**, 16, 473-478	3.8	12

10	Small-angle x-ray and neutron scattering studies of amorphous polymer blends. *Journal of Polymer Science, Polymer Physics Edition*, **1982**, 20, 1593-1607		17
9	Small-angle x-ray scattering study of ionomer deformation. *Journal of Polymer Science, Polymer Physics Edition*, **1980**, 18, 1497-1512		46
8	Scattering studies from polymer blends. *Journal of Macromolecular Science - Physics*, **1980**, 17, 617-624	1.4	13
7	Total integrated light-scattering intensity from polymeric solids. *Journal of Polymer Science, Polymer Physics Edition*, **1979**, 17, 1719-1730		74
6	A calibration procedure for a low-angle light-scattering apparatus. *Journal of Polymer Science, Polymer Physics Edition*, **1978**, 16, 1879-1882		4
5	Standard potential of the mercury-mercurous benzoate electrode at 20.degree.C. *Journal of Chemical & Engineering Data*, **1977**, 22, 370-371	2.8	2
4	Small-angle x-ray and light scattering studies of the morphology of blends of poly(?-caprolactone) with poly(vinyl chloride). *Journal of Polymer Science, Polymer Physics Edition*, **1976**, 14, 1391-1424		204
3	Manipulating the Crystalline Morphology in the Nonfullerene Acceptor Mixture to Improve the Carrier Transport and Suppress the Energetic Disorder. *Small Science*,2100092		1
2	Nanoparticle/Polyelectrolyte Complexes for Biomimetic Constructs. *Advanced Functional Materials*,2108895	18.5	7
1	Laser-induced recoverable fluorescence quenching of perovskite films at a microscopic grain-scale. *Energy and Environmental Materials*,	13	1