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## Nanostructure fabrication using block copolymers

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#	Paper	IF	Citations
694	Coarse-grain molecular dynamics simulations of diblock copolymer surfactants interacting with a lipid bilayer. <b>2004</b> , 102, 883-889		28
693	Self-assembly and properties of diblock copolymers by coarse-grain molecular dynamics. <b>2004</b> , 3, 638-44		311
692	Transparent Solid-State Lithiated Neutron Scintillators Based on Self-Assembly of Polystyrene-block-poly(ethylene oxide) Copolymer Architectures. <b>2004</b> , 16, 1757-1761		14
691	Ozone etching of a highly asymmetric triblock copolymer with a majority polydiene component. <i>European Polymer Journal</i> , <b>2004</b> , 40, 1715-1721	5.2	9
690	Localized synthesis of polypyrrole in the nanopattern of monolayer films of diblock copolymer micelles. <i>Langmuir</i> , <b>2004</b> , 20, 10734-6	4	18
689	Nanometer-scale pattern registration and alignment by directed diblock copolymer self-assembly. <b>2004</b> , 3, 412-415		131
688	Phenylethynylstyrene-Cobalt Carbonyl Block Copolymer Composites. <i>Macromolecules</i> , <b>2004</b> , 37, 8967-8975	5.2	59
687	Ordered Block-Copolymer Assembly Using Nanoimprint Lithography. <b>2004</b> , 4, 1633-1636		124
686	Inorganic Nanodots from Thin Films of Block Copolymers. <b>2004</b> , 4, 1841-1844		112
685	Solvent-induced self-assembly of mixed poly(methyl methacrylate)/polystyrene brushes on planar silica substrates: molecular weight effect. <b>2004</b> , 126, 6124-34		119
684	Monte Carlo simulation of structure and nanoscale interactions in polymer nanocomposites. <b>2004</b> , 121, 10814-24		30
683	Mesoporous spherical aggregates of anatase nanocrystals with wormhole-like framework structures: their chemical fabrication, characterization, and photocatalytic performance. <i>Langmuir</i> , <b>2004</b> , 20, 11738-47	4	50
682	Designer synthesis of mesoporous solids via block copolymer templating pathway. <b>2004</b> , 148, 139-161		8
681	Morphology Development of Ultrathin Symmetric Diblock Copolymer Film via Solvent Vapor Treatment. <i>Macromolecules</i> , <b>2004</b> , 37, 7301-7307	5.5	184
680	Simulation of Diblock Copolymer Self-Assembly, Using a Coarse-Grain Model. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8153-8160	3.4	76
679	Nanostructured disposable chips for electrochemiluminescence-based biosensing. <b>2005</b> , 6008, 266		
678	Macromolecules at Interfaces and Structured Organic Films. <b>2005</b> , 377-418		1

677	Block copolymer nanolithography. <b>2005</b> , 1-38		9
676	Shear-induced slippage of the self-assembly of crown ether-centered two-armed copolymers. <b>2005</b> , 252, 1132-1138		1
675	Preparation of large mesoporous SnO <sub>2</sub> powder for gas sensor application. <b>2005</b> , 108, 56-61		96
674	Block copolymer vesicles—Using concepts from polymer chemistry to mimic biomembranes. <b>2005</b> , 46, 3540-3563		442
673	Nanoscale localization of poly(vinylidene fluoride) in the lamellae of thin films of symmetric polystyrene- <i>b</i> -poly(methyl methacrylate) diblock copolymers. <b>2005</b> , 46, 3776-3781		11
672	Pattern replication examined with integral geometry approach: application to ion milling of polymer blend films. <b>2005</b> , 476, 358-365		12
671	Surface Nano- and Microstructuring with Organometallic Polymers. <b>2005</b> , 91-117		86
670	Supramolecular assembly of nanoparticles at liquid-liquid interfaces. <b>2005</b> , 44, 5172-5		193
669	Supramolekulare Anordnung von Nanopartikeln an Flüssig-flüssig-Grenzflächen. <b>2005</b> , 117, 5300-5304		20
668	Phase-Separation-Induced Micropatterned Polymer Surfaces and Their Applications. <b>2005</b> , 15, 655-663		31
667	Organic-Inorganic Nanohybridization by Block Copolymer Thin Films. <b>2005</b> , 15, 1160-1164		76
666	Solvent Induced Sphere Development in Symmetric Diblock Copolymer Thin Films. <b>2005</b> , 26, 738-743		26
665	Phase separation in binary mixtures containing polymers: A quantitative comparison of single-chain-in-mean-field simulations and computer simulations of the corresponding multichain systems. <b>2005</b> , 43, 934-958		135
664	Rheological and mechanical properties of PEO/block copolymer blends. <b>2005</b> , 45, 1385-1394		8
663	Hybrid metal-polymer composites from functional block copolymers. <i>Journal of Polymer Science Part A</i> , <b>2005</b> , 43, 4323-4336	2.5	130
662	. <b>2005</b> ,		125
661	Emerging micro and nanomanufacturing processes for electrical and electronic engineering applications.		
660	Stability of a block-copolymer lamella in a strong electric field. <i>Physical Review Letters</i> , <b>2005</b> , 95, 258302	7.4	42

659	Ordering mechanism of asymmetric diblock copolymers confined between polymer-grafted surfaces. <b>2005</b> , 122, 154904		15
658	Reentrant ordering transition of asymmetric copolymer solution film confined between polymer-grafted surfaces. <b>2005</b> , 72, 051804		8
657	Ordered Organic-Inorganic Bulk Heterojunction Photovoltaic Cells. <b>2005</b> , 30, 37-40		136
656	Reduction of anisotropic image resolution in transmission electron microtomography by use of quadrangular prism-shaped section. <b>2005</b> , 54, 437-44		25
655	Living Radical Polymerization: Controlling Molecular Size and Chemical Functionality in Vinyl Polymers. <b>2005</b> , 45, 171-194		57
654	Controlling the size of nanostructures in thin films via blending of block copolymers and homopolymers. <b>2005</b> , 122, 114706		49
653	Peptide mediated formation of hierarchically organized solution and solid state polymer nanostructures. <b>2005</b> , 128, 29-41		54
652	Nanoparticle-coated microcrystals. <b>2005</b> , 2677-9		9
651	Spatial position control of pre-synthesized CdS nanoclusters using a self-assembled diblock copolymer template. <i>Nanotechnology</i> , <b>2005</b> , 16, 683-687	3-4	30
650	Dual-Axis Electron Tomography for Three-Dimensional Observations of Polymeric Nanostructures. <i>Macromolecules</i> , <b>2005</b> , 38, 10226-10233	5-5	70
649	Strategies for Controlling the Planar Arrangement of Block Copolymer Micelles and Inorganic Nanoclusters. <i>Macromolecules</i> , <b>2005</b> , 38, 10728-10735	5-5	47
648	CdS Nanoparticles Induce a Morphological Transformation of Poly(styrene- <i>b</i> -4-vinylpyridine) from Hexagonally Packed Cylinders to a Lamellar Structure. <i>Macromolecules</i> , <b>2005</b> , 38, 6559-6565	5-5	113
647	Block Copolymer Monolayer Structure Measured with Scanning Force Microscopy Moiré Patterns. <i>Macromolecules</i> , <b>2005</b> , 38, 7083-7089	5-5	36
646	Large Area Ordering at Room Temperature in Thin Films of Poly(isoprene- <i>block</i> -ferrocenylsilane)s for Nanofabrication. <b>2005</b> , 17, 1275-1278		22
645	Microphase Ordering Mechanisms in Linear ABC Triblock Copolymers. A Dynamic Density Functional Study. <i>Macromolecules</i> , <b>2005</b> , 38, 9324-9332	5-5	21
644	Epitaxial Phase Transition of Polystyrene- <i>b</i> -Polyisoprene from Hexagonally Perforated Layer to Gyroid Phase in Thin Film. <i>Macromolecules</i> , <b>2005</b> , 38, 10532-10536	5-5	70
643	Key roles for chain flexibility in block copolymer membranes that contain pores or make tubes. <b>2005</b> , 5, 2343-9		71
642	Self-assembled nanoreactors. <b>2005</b> , 105, 1445-89		1300

641	Electrically anisotropic thin films consisting of polymeric and metallic nanolayers from self-assembled lamellae of diblock copolymers. <i>Langmuir</i> , <b>2005</b> , 21, 3625-8	4	18
640	Morphology of rhenium complex-containing polystyrene-block-poly(4-vinylpyridine) and its use as self-assembly templates for nanoparticles. <i>Langmuir</i> , <b>2005</b> , 21, 5247-50	4	22
639	Nanofabricated and self-assembled magnetic structures as data storage media. <b>2005</b> , 38, R199-R222		687
638	Monitoring surface thermal transitions of ABA triblock copolymers with crystalline segments using phase contrast tapping mode atomic force microscopy. <i>Langmuir</i> , <b>2005</b> , 21, 1143-8	4	14
637	Perpendicular Domain Orientation in Thin Films of Polystyrene-Poly(lactide) Diblock Copolymers. <i>Macromolecules</i> , <b>2005</b> , 38, 10101-10108	5.5	73
636	Microstructure of Block Copolymers near Selective Surfaces: Theoretical Predictions and Configurational-Bias Monte Carlo Simulation. <i>Macromolecules</i> , <b>2005</b> , 38, 971-978	5.5	57
635	Palladium Colloid Stabilized by Block Copolymer Micelles as an Efficient Catalyst for Reactions of C-C and C-Heteroatom Bond Formation. <b>2006</b> , 25, 154-158		73
634	Converting the nanodomains of a diblock-copolymer thin film from spheres to cylinders with an external electric field. <b>2006</b> , 124, 74906		27
633	Microphase separation in two-dimensional systems with competing interactions. <b>2006</b> , 124, 164712		96
632	Directing Supramolecular Nanoparticle Binding onto Polymer Films: Film Formation and Influence of Receptor Density on Binding Densities. <i>Macromolecules</i> , <b>2006</b> , 39, 8092-8101	5.5	50
631	From self-organized masks to nanotips: A new concept for the preparation of densely packed arrays of diamond field emitters. <b>2006</b> , 15, 1689-1694		20
630	Undulation instability in block-copolymer lamellae subjected to a perpendicular electric field. <i>Soft Matter</i> , <b>2006</b> , 2, 1048-1056	3.6	32
629	Solid-State Structure, Organization and Properties of Peptide-Synthetic Hybrid Block Copolymers. 75-111		105
628	Phase behavior of mixed Langmuir monolayers from amphiphilic block copolymers and an antimicrobial peptide. <i>Langmuir</i> , <b>2006</b> , 22, 1164-72	4	51
627	An optical waveguide study on the nanopore formation in block copolymer/homopolymer thin films by selective solvent swelling. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15381-8	3.4	34
626	Controlled synthesis of novel 3D dendritic Bi <sub>2</sub> S <sub>3</sub> /cross-linked poly(vinyl alcohol) nanocomposites. <i>Nanotechnology</i> , <b>2006</b> , 17, 4999-5005	3.4	8
625	Direct Observation of Twisted Grain Boundary in a Block Copolymer Lamellar Nanostructure. <i>Macromolecules</i> , <b>2006</b> , 39, 5815-5819	5.5	46
624	A Study of the Supramolecular Approach in Controlling Diblock Copolymer Nanopatterning and Nanoporosity on Surfaces. <i>Macromolecules</i> , <b>2006</b> , 39, 6473-6482	5.5	69

623	Fabrication of nanoporous templates from diblock copolymer thin films on alkylchlorosilane-neutralized surfaces. <i>Langmuir</i> , <b>2006</b> , 22, 11092-6	4	22
622	Salt Complexation in Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2006</b> , 39, 8473-8479	5.5	130
621	Microphase separation of star-diblock copolymer melts studied by dissipative particle dynamics simulation. <b>2006</b> , 32, 375-383		23
620	Monte Carlo simulations of cylinder-forming ABC triblock terpolymer thin films. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 18212-24	3.4	20
619	Block copolymer micelles as switchable templates for nanofabrication. <i>Langmuir</i> , <b>2006</b> , 22, 3450-2	4	65
618	Layered Structure and Order-to-Disorder Transition in a Block Codendrimer Caused by Intermolecular Hydrogen Bonds. <i>Macromolecules</i> , <b>2006</b> , 39, 3982-3985	5.5	16
617	Surface-induced phase transition of asymmetric diblock copolymer in selective solvents. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 22726-31	3.4	11
616	Three-Dimensional Observations of Grain Boundary Morphologies in a Cylinder-Forming Block Copolymer. <b>2006</b> , 245-246, 170-174		21
615	A Ladder Morphology in an ABC Triblock Copolymer. <b>2006</b> , 242, 80-86		20
614	Nanomachining by colloidal lithography. <b>2006</b> , 2, 458-75		518
613	Controlled arrangement of nanoparticle arrays in block-copolymer domains. <b>2006</b> , 2, 600-11		301
612	Solution self-assembly of tailor-made macromolecular building blocks prepared by controlled radical polymerization techniques. <b>2006</b> , 55, 979-993		121
611	Spatial arrangement of metal nanoparticles supported by porous polymer substrates studied by transmission electron microtomography. <b>2006</b> , 6, 267-74		19
610	Nanoscale patterning with block copolymers. <b>2006</b> , 9, 40-47		468
609	Aggregation of water-soluble block copolymers in aqueous solutions: recent trends. <b>2006</b> , 123-126, 75-96		209
608	Synthesis of palladium nanostructures by spontaneous electroless deposition. <b>2006</b> , 422, 147-151		12
607	Morphology of multi-component polymer systems: single chain in mean field simulation studies. <i>Soft Matter</i> , <b>2006</b> , 2, 573-583	3.6	121
606	Tuning the Dimensions and Periodicities of Nanostructures Starting from the Same Polystyrene-block-poly(2-vinylpyridine) Diblock Copolymer. <b>2006</b> , 16, 1469-1475		85

605	Templated Self-Assembly of Block Copolymers: Top-Down Helps Bottom-Up. <b>2006</b> , 18, 2505-2521		634
604	Density functional theory for chemical engineering: From capillarity to soft materials. <b>2006</b> , 52, 1169-1193		299
603	An approach for the fabrication of hexagonally ordered arrays of cylindrical nanoholes in crystalline and amorphous silicon based on the self-organization of polymer micelles. <i>Nanotechnology</i> , <b>2006</b> , 17, 4991-4994	3-4	12
602	Unconventional methods for forming nanopatterns. <b>2006</b> , 220, 81-138		4
601	A versatile platform for nanotechnology based on circular permutation of a chaperonin protein. <i>Nanotechnology</i> , <b>2006</b> , 17, 1171-1176	3-4	25
600	Development of Block Co-Polymers as Self-Assembling Templates for Magnetic Media and Spin-Valves. <b>2006</b> , 941, 1		1
599	Capacitance of spherical dielectric layers. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 024501	2-5	3
598	The fabrication of thin films with nanopores and nanogrooves from block copolymer thin films on the neutral surface of self-assembled monolayers. <i>Nanotechnology</i> , <b>2007</b> , 18, 355304	3-4	11
597	Fabrication of TiO <sub>2</sub> Grating with Composites of Azobenzene Polymer and TiO <sub>2</sub> Nanoparticles. <b>2007</b> , 44, 1329-1332		2
596	Micro-and Nanomanufacturing. <b>2007</b> , 635-685		
595	Density functional theory for a primitive model of nanoparticle-block copolymer mixtures. <b>2007</b> , 126, 144912		27
594	Hard-surface effects in polymer self-consistent field calculations. <b>2007</b> , 126, 234902		47
593	Core-shell structures in single flexible-semiflexible block copolymers: finding the free energy minimum for the folding transition. <b>2007</b> , 127, 044902		9
592	A new process for fabricating nanodot arrays on selective regions with diblock copolymer thin film. <i>Nanotechnology</i> , <b>2007</b> , 18, 365303	3-4	6
591	Molecular dynamics simulations of self-assembly and nanotube formation by amphiphilic molecules in aqueous solution: a coarse-grain approach. <i>Nanotechnology</i> , <b>2007</b> , 18, 205703	3-4	21
590	Nanopattern formation using a chemically modified PS-P4VP diblock copolymer. <i>Nanotechnology</i> , <b>2007</b> , 18, 075304	3-4	10
589	Modified interfacial statistical associating fluid theory: a perturbation density functional theory for inhomogeneous complex fluids. <b>2007</b> , 127, 244904		111
588	Symmetric diblock copolymers in nanopores: Monte Carlo simulations and strong-stretching theory. <b>2007</b> , 126, 024903		58

587	Polymer/Metal Nanocomposites: Assembly of Metal Nanoparticles in Polymer Films and their Applications. <b>2007</b> , 3, 206-214		10
586	Synthesis and Characterization of Diazonium Containing Block Copolymers via Controlled Ring Opening Metathesis Polymerization (ROMP) and the Subsequent Chemical Modification. <b>2007</b> , 249-250, 336-343		2
585	Roles of Polymer Ligands in Nanoparticle Stabilization. <b>2007</b> , 47, 197-215		180
584	Block Copolymer Templated Chemistry for the Formation of Metallic Nanoparticle Arrays on Semiconductor Surfaces. <b>2007</b> , 19, 5090-5101		176
583	DNA meets synthetic polymers--highly versatile hybrid materials. <b>2007</b> , 5, 1311-20		159
582	Synthesis of high molecular weight comb block copolymers and their assembly into ordered morphologies in the solid state. <b>2007</b> , 129, 10551-60		171
581	Self-assembly in mixed aqueous solutions of amphiphilic block copolymers and vesicle-forming surfactant. <i>Langmuir</i> , <b>2007</b> , 23, 7484-90	4	32
580	A Route to Stable Nanostructures in Conjugated Polymers. <i>Macromolecules</i> , <b>2007</b> , 40, 7758-7762	5.5	21
579	Single layers of diblock copolymer micelles for the fabrication of arrays of nanoparticles. <b>2007</b> , 17, 2969		50
578	Self-organization behavior of methacrylate-based amphiphilic di- and triblock copolymers. <i>Langmuir</i> , <b>2007</b> , 23, 12371-9	4	35
577	Interactions of biomolecules with inorganic materials: principles, applications and future prospects. <b>2007</b> , 17, 2875		81
576	Compositional Mismatch between Chemical Patterns on a Substrate and Polymer Blends Yielding Spin-Cast Films with Subpattern Periodicity. <i>Macromolecules</i> , <b>2007</b> , 40, 2120-2125	5.5	14
575	Moiré Patterns in Superimposed Nanoporous Thin Films Derived from Block-Copolymer Assemblies. <b>2007</b> , 7, 3628-3632		44
574	Transfer of Sub-30-nm Patterns from Templates Based on Supramolecular Assemblies. <i>Macromolecules</i> , <b>2007</b> , 40, 7752-7754	5.5	21
573	Amphiphilic block copolymer nanotubes and vesicles stabilized by photopolymerization. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 5162-6	3.4	29
572	Interfacial fluctuations of block copolymers: a coarse-grain molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 13734-42	3.4	14
571	Surface-initiated, ring-opening metathesis polymerization: formation of diblock copolymer brushes and solvent-dependent morphological changes. <i>Langmuir</i> , <b>2007</b> , 23, 6761-5	4	46
570	Inner Structure of Thin Films of Lamellar Poly(styrene- <i>b</i> -butadiene) Diblock Copolymers As Revealed by Grazing-Incidence Small-Angle Scattering. <i>Macromolecules</i> , <b>2007</b> , 40, 630-640	5.5	89



569	Liquid templating for nanoparticle organization into complex patterns. <i>Langmuir</i> , <b>2007</b> , 23, 2824-8	4	16
568	Interfacial Staining of a Phase-Separated Block Copolymer with Ruthenium Tetroxide. <i>Macromolecules</i> , <b>2007</b> , 40, 1594-1597	5.5	15
567	Self-Assembly of Symmetric Diblock Copolymers Confined in Spherical Nanopores. <i>Macromolecules</i> , <b>2007</b> , 40, 9133-9142	5.5	136
566	A Novel Structural Analysis for a Cylinder-Forming Block Copolymer Thin Film Using Neutron Reflectivity Aided by Transmission Electron Microtomography. <i>Macromolecules</i> , <b>2007</b> , 40, 6940-6946	5.5	21
565	pH-responsive aggregates from double hydrophilic block copolymers carrying zwitterionic groups. Encapsulation of antiparasitic compounds for the treatment of leishmaniasis. <i>Langmuir</i> , <b>2007</b> , 23, 4214-21	4	33
564	Thin Film Morphology in Triblock Terpolymers with One and Two Crystallizable Blocks. <i>Macromolecules</i> , <b>2007</b> , 40, 5487-5496	5.5	13
563	Two-dimensionally self-arranged protein nanoarrays on diblock copolymer templates. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4581-7	3.4	48
562	Mixtures of Diblock Copolymer Micelles by Different Mixing Protocols. <i>Macromolecules</i> , <b>2007</b> , 40, 8323-8328	5.5	42
561	Assembly of spherical micelles in 2D physical confinements and their replication into mesoporous silica nanorods. <b>2007</b> , 17, 4558		22
560	Template free, large scale synthesis of cobalt nanowires using magnetic fields for alignment. <i>Nanotechnology</i> , <b>2007</b> , 18, 165606	3.4	59
559	Molecule-responsive block copolymer micelles. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 4560-70	4.8	54
558	Growth Confined by the Nitrogen Source: Synthesis of Pure Metal Nitride Nanoparticles in Mesoporous Graphitic Carbon Nitride. <b>2007</b> , 19, 264-267		149
557	Template- and Vacuum-Ultraviolet- Assisted Fabrication of a Ag-Nanoparticle Array on Flexible and Rigid Substrates. <b>2007</b> , 19, 1267-1271		69
556	Fabrication of Double-Length-Scale Patterns via Lithography, Block Copolymer Templating, and Electrodeposition. <b>2007</b> , 19, 3584-3588		33
555	Surface structure of thin asymmetric PS-b-PMMA diblock copolymers investigated by atomic force microscopy. <i>European Polymer Journal</i> , <b>2007</b> , 43, 789-796	5.2	8
554	Impact of atomic force microscopy on interface and colloid science. <b>2007</b> , 133, 91-104		67
553	Fabrication of needle-like nanostructures using block copolymer for non-volatile memory. <b>2007</b> , 27, 1452-1455		7
552	Salt induced micellization of very hydrophilic PEOBPOBEO block copolymers in aqueous solutions. <i>European Polymer Journal</i> , <b>2007</b> , 43, 1699-1708	5.2	67

551	Tailored interfaces for biosensors and cell-surface interaction studies via activation and derivatization of polystyrene-block-poly(tert-butyl acrylate) thin films. <i>European Polymer Journal</i> , <b>2007</b> , 43, 2177-2190	5.2	10
550	Deformation mechanisms in polymer fibres and nanocomposites. <b>2007</b> , 48, 2-18		86
549	Directing the self-assembly of block copolymers. <i>Progress in Polymer Science</i> , <b>2007</b> , 32, 1152-1204	29.6	868
548	Photoinduced nanoscale cooperative motion in a well-defined triblock copolymer. <b>2007</b> , 3, 768-71		62
547	Substrate wetting and topographically induced ordering of amorphous PI-b-PFS block-copolymer domains. <b>2007</b> , 3, 1415-23		19
546	Functionalized poly(oxanorbornene)-block-copolymers: Preparation via ROMP/click-methodology. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 485-499	2.5	63
545	Three-dimensional structural analysis of a block copolymer by scanning electron microscopy combined with a focused ion beam. <b>2007</b> , 45, 677-683		44
544	Composite aqueous microgels: an overview of recent advances in synthesis, characterization and application. <b>2007</b> , 56, 291-307		101
543	Hard-templating synthesis of a novel rod-like nanoporous calcium phosphate bioceramics and their capacity as antibiotic carriers. <b>2007</b> , 103, 489-493		46
542	Designed synthesis of mesoporous solids via nonionic-surfactant-templating approach. <b>2007</b> , 897-926		279
541	A Neutron Reflectivity Study on a Terraced Lamellar Morphology in a Block Copolymer Thin Film. <b>2007</b> , 39, 1105-1111		3
540	Morphological analysis of self-assembled SIS block copolymer matrices containing silver nanoparticles. <b>2008</b> , 68, 1631-1636		21
539	Self-assembled block copolymers: Bulk to thin film. <b>2008</b> , 16, 267-292		101
538	Jumping nanodroplets: a new route towards metallic nano-particles. <b>2008</b> , 93, 415-419		19
537	Nanostructured polymers for photonics. <b>2008</b> , 11, 48-56		109
536	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. <b>2008</b> , 293, 568-573		34
535	Organometallic-polypeptide block copolymers: synthesis and self-assembly of poly(ferrocenyldimethylsilane)-b-poly(epsilon-benzylloxycarbonyl-L-lysine). <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 8624-31	4.8	25
534	Self-assembling nanoparticles at surfaces and interfaces. <b>2008</b> , 9, 20-42		344

533	Enzymatic control of the size of DNA block copolymer nanoparticles. <b>2008</b> , 47, 974-6		71
532	Self-assembly of Protein Nanoarrays on Block Copolymer Templates. <b>2008</b> , 18, 3148-3157		56
531	Nanopatterned Self-Assembled Monolayers by Using Diblock Copolymer Micelles as Nanometer-Scale Adsorption and Etch Masks. <b>2008</b> , 20, 1962-1965		14
530	Highly Ordered Arrays of Mesoporous Silica Nanorods with Tunable Aspect Ratios from Block Copolymer Thin Films. <b>2008</b> , 20, 763-767		80
529	Combining Micelle Self-Assembly with Nanostencil Lithography to Create Periodic/Aperiodic Micro-/Nanopatterns on Surfaces. <b>2008</b> , 20, 3533-3538		14
528	Enzymatische Kontrolle der GröÙ von DNA-Blockcopolymer- Nanopartikeln. <b>2008</b> , 120, 988-991		14
527	Tailored Ag nanoparticle array fabricated by block copolymer photolithography. <b>2008</b> , 516, 2577-2581		34
526	Vertex functions in the Landau theory of phase transitions in melts of Markovian multiblock copolymers. <b>2008</b> , 387, 363-384		7
525	In situ formation of gold nanoparticles with a thermoresponsive block copolymer corona. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 317, 764-767	5.1	11
524	Disordered Phase and Self-Organization of Block Copolymer Systems. <b>2008</b> , 133-189		4
523	Solvent-assisted self-assembly of amphiphilic polymer/surfactant complexes. <b>2008</b> , 62, 2762-2765		3
522	Hybrid titanium dioxide/PS-b-PEO block copolymer nanocomposites based on sol-gel synthesis. <i>Nanotechnology</i> , <b>2008</b> , 19, 155607	3.4	57
521	Structural instabilities in lamellar diblock copolymer thin films during solvent vapor uptake. <i>Langmuir</i> , <b>2008</b> , 24, 13815-8	4	50
520	Phase behavior and structure formation in linear multiblock copolymer solutions by Monte Carlo simulation. <b>2008</b> , 128, 164906		26
519	Facile Synthesis of Porous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanorods and Their Application in Ethanol Sensors. <b>2008</b> , 112, 17804-17808		140
518	Using cylindrical domains of block copolymers to self-assemble and align metallic nanowires. <b>2008</b> , 2, 489-501		266
517	Nanostructures in Thin Films from Nanostructured Polymeric Templates: Self-Assembly. <b>2008</b> , 261-273		
516	Nanowires in Electronics Packaging. <b>2008</b> , 441-463		1

515	Synthesis of all-conjugated diblock copolymers by quasi-living polymerization and observation of their microphase separation. <b>2008</b> , 130, 7812-3		227
514	Tuning the properties of PS-block copolymers and their assembly into polymersomes. <i>Soft Matter</i> , <b>2008</b> , 4, 1003-1010	3.6	14
513	Synthesis and Self-Assembly of Copolymers with Pendant Electroactive Units. <i>Macromolecules</i> , <b>2008</b> , 41, 6376-6386	5.5	22
512	Investigation of the Assembly of Comb Block Copolymers in the Solid State. <i>Macromolecules</i> , <b>2008</b> , 41, 7687-7694	5.5	51
511	Composition deviation of arrays of FePt nanoparticles starting from poly(styrene)-poly(4-vinylpyridine) micelles. <i>Nanotechnology</i> , <b>2008</b> , 19, 135704	3.4	8
510	Controlling the morphology of side chain liquid crystalline block copolymer thin films through variations in liquid crystalline content. <b>2008</b> , 8, 3434-40		43
509	Restricted swelling and its orientation effect on copolymer micellar solutions of hexagonal-packed cylinders under steady shear flow. <i>Langmuir</i> , <b>2008</b> , 24, 2318-25	4	4
508	Polymer encapsulation effects on the magnetism of EuS nanocrystals. <b>2008</b> , 18, 4572		23
507	Cylinder-forming triblock terpolymer in nanopores: a Monte Carlo simulation study. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 1918-25	3.4	19
506	Wang-Landau Simulation of Polymer-Nanoparticle Mixtures. <i>Macromolecules</i> , <b>2008</b> , 41, 7243-7250	5.5	15
505	Morphological Changes in Block Copolymer Melts Due to a Variation of Intramolecular Branching. Dissipative Particles Dynamics Study. <i>Macromolecules</i> , <b>2008</b> , 41, 9904-9913	5.5	5
504	Two-Dimensional Ordering in Block Copolymer Monolayer Thin Films upon Selective Solvent Annealing. <i>Macromolecules</i> , <b>2008</b> , 41, 5799-5808	5.5	45
503	Synthesis of atypical nanoparticles by the nanostructure in thin films of triblock copolymers. <i>Langmuir</i> , <b>2008</b> , 24, 11137-40	4	16
502	Functional Nanocavity Arrays via Amphiphilic Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2008</b> , 41, 1739-1744	5.5	25
501	Modeling Self-Assembly of Diblock Copolymer-Nanoparticle Composites. <i>Macromolecules</i> , <b>2008</b> , 41, 8932-8937	5.5	9
500	Silica nanoparticles at interfaces modulated by amphiphilic polymer and surfactant. <i>Langmuir</i> , <b>2008</b> , 24, 7346-53	4	8
499	A Transition from Cylindrical to Spherical Morphology in Diblock Copolymer Thin Films. <i>Macromolecules</i> , <b>2008</b> , 41, 9318-9325	5.5	28
498	Thin Film Morphologies of Block Copolymers Complexed with Wedge-Shaped Liquid Crystalline Amphiphilic Molecules. <i>Macromolecules</i> , <b>2008</b> , 41, 1728-1738	5.5	44

497	Micellization of PEO/PS block copolymers at the air/water interface: a simple model for predicting the size and aggregation number of circular surface micelles. <i>Langmuir</i> , <b>2008</b> , 24, 3699-708	4	37
496	Dynamic Cellular Adhesion Mediated by Copolymeric Nanofilm Substrates. <b>2008</b> , 13, 206-214		1
495	Block Copolymer Thin Films from Solutions with Different Solvent Quality. <b>2008</b> , 483, 163-171		
494	Microphase separation of graft-diblock copolymer by dissipative particle dynamics simulation. <b>2008</b> , 34, 559-565		12
493	Patterning sub-10 nm line patterns from a block copolymer hybrid. <i>Nanotechnology</i> , <b>2008</b> , 19, 455304	3-4	29
492	Si-containing block copolymers for self-assembled nanolithography. <b>2008</b> , 26, 2489-2494		75
491	The systematic tunability of nanoparticle dimensions through the controlled loading of surface-deposited diblock copolymer micelles. <i>Nanotechnology</i> , <b>2008</b> , 19, 175301	3-4	5
490	Patterned Magnetic Media Made by Self-Assembled Block-Copolymer Lithography. <b>2008</b> , 33, 838-845		69
489	Self-organized metallic nanoparticle and nanowire arrays from ion-sputtered silicon templates. <b>2008</b> , 93, 063106		57
488	Formation of Cadmium Sulfide Nanoparticles in Poly(ethylene Glycol)-Modified Microemulsions. <b>2008</b> , 149-155		
487	Recent Advances in Transmission Electron Microtomography for Polymer Research. <b>2008</b> , 65, 547-561		5
486	Raman Applications in Synthetic and Natural Polymer Fibers and Their Composites. <b>2008</b> , 63-94		4
485	Design and defect tolerance beyond CMOS. <b>2008</b> ,		3
484	. <b>2008</b> ,		26
483	Steady-state electrical transport through block copolymer nanostructures deposited on smooth and rough electrodes. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 044306	2-5	4
482	. <b>2008</b> ,		57
481	. <b>2009</b> ,		255
480	. <b>2009</b> ,		16

479	Microphase separation of comb copolymers with two different lengths of side chains. <b>2009</b> , 80, 041801		3
478	Diblock copolymers in a cylindrical pore. <b>2009</b> , 131, 214902		31
477	Nanoreactors. <b>2009</b> , 1		1
476	Synthesis of Ag <sub>2</sub> S and Ag <sub>2</sub> Se nanoparticles in self assembled block copolymer micelles and nano-arrays fabrication. <b>2009</b> , 63, 773-776		43
475	Template Synthesis of Cobalt Nanowires Using PS-b-PMMA Block Copolymer. <b>2009</b> , 45, 4063-4066		4
474	Photonic Shell-Crosslinked Nanoparticle Probes for Optical Imaging and Monitoring. <b>2009</b> , 21, 1344-1348		25
473	Block copolymer nanolithography: translation of molecular level control to nanoscale patterns. <b>2009</b> , 21, 4769-92		585
472	Directing the Self-Assembly of Mesosstructured Hybrid Materials: Effect of Polymer Concentration and Solvent Type. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 864-878	2.6	18
471	Phenylenevinylene Block Copolymers via Ring-Opening Metathesis Polymerization. <b>2009</b> , 30, 1889-92		35
470	Counteranion-directed, biomimetic control of silica nanostructures on surfaces inspired by biosilicification found in diatoms. <b>2009</b> , 5, 1947-51		35
469	Tuning surface interactions to control shape and array behavior of diblock copolymer micelles on a silicon substrate. <b>2009</b> , 603, 625-631		5
468	Transmission electron microtomography in polymer research. <b>2009</b> , 50, 1067-1087		105
467	Diblock copolymer healing. <b>2009</b> , 50, 2630-2634		20
466	Strategies exploiting functions and self-assembly properties of bioconjugates for polymer and materials sciences. <i>Progress in Polymer Science</i> , <b>2009</b> , 34, 811-851	29.6	180
465	Ordering in thin films of block copolymers: Fundamentals to potential applications. <i>Progress in Polymer Science</i> , <b>2009</b> , 34, 1161-1210	29.6	460
464	Selective distribution of interacting magnetic nanoparticles into block copolymer domains based on the facile inversion of micelles. <b>2009</b> , 69, 546-551		9
463	Kinetically constrained block copolymer self-assembly a simple method to control domain size. <i>European Polymer Journal</i> , <b>2009</b> , 45, 1065-1071	5.2	16
462	Surfactant assisted selective confinement of carbon nanotubes functionalized with octadecylamine in a poly(styrene-b-isoprene-b-styrene) block copolymer matrix. <b>2009</b> , 47, 2474-2480		26

461	Ordered Microphase Separation in Thin Films of PMMA- <i>B</i> BBA Synthesized by RAFT: Effect of Block Polydispersity. <i>Macromolecules</i> , <b>2009</b> , 42, 3138-3146	5.5	38
460	A facile route to homogeneous high density networks of metal nanoparticles. <i>Langmuir</i> , <b>2009</b> , 25, 11285-11288	4	11
459	"Breathing" vesicles. <b>2009</b> , 131, 10557-66		204
458	Nanostructure Formation in Poly(3-hexylthiophene-block-3-(2-ethylhexyl)thiophene)s. <i>Macromolecules</i> , <b>2009</b> , 42, 7008-7015	5.5	108
457	Relationship between wall thickness and size in block copolymer vesicles. <i>Langmuir</i> , <b>2009</b> , 25, 13730-6	4	36
456	In-Situ High-Temperature Studies of Diblock Copolymer Structural Evolution. <i>Macromolecules</i> , <b>2009</b> , 42, 2667-2671	5.5	19
455	Synthesis of Ni nanowires via a hydrazine reduction route in aqueous ethanol solutions assisted by external magnetic fields. <b>2009</b> , 1, 49-52		32
454	Order-to-Order Transitions of Block Copolymer in Film Geometry. <i>Macromolecules</i> , <b>2009</b> , 42, 2157-2160	5.5	33
453	Block Copolymers for Organic Optoelectronics. <i>Macromolecules</i> , <b>2009</b> , 42, 9205-9216	5.5	356
452	Block copolymer micelles as nanocontainers for controlled release of proteins from biocompatible oil phases. <i>Biomacromolecules</i> , <b>2009</b> , 10, 732-41	6.9	31
451	The effect of fluid flow on selective protein adsorption on polystyrene-block-poly(methyl methacrylate) copolymers. <i>Langmuir</i> , <b>2009</b> , 25, 12144-50	4	14
450	Modulation of protein-surface interactions on nanopatterned polymer films. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1061-6	6.9	32
449	Templated self-assembly of square symmetry arrays from an ABC triblock terpolymer. <b>2009</b> , 9, 4364-9		109
448	Tunable Surface Plasmon Band of Position Selective Ag and Au Nanoparticles in Thin Block Copolymer Micelle Films. <b>2009</b> , 21, 4248-4255		35
447	On Defining a Simple Empirical Relationship to Predict the Pore Size of Mesoporous Silicas Prepared from PEO- <i>b</i> -PS Diblock Copolymers. <b>2009</b> , 21, 48-55		37
446	Simultaneous blue, green, and red emission from diblock copolymer micellar films: a new approach to white-light emission. <b>2009</b> , 6723-5		33
445	A double helical structure formed from an amorphous, achiral ABC triblock terpolymer. <i>Soft Matter</i> , <b>2009</b> , 5, 2042	3.6	83
444	Perpendicular Orientation of Domains in Cylinder-Forming Block Copolymer Thick Films by Controlled Interfacial Interactions. <i>Macromolecules</i> , <b>2009</b> , 42, 4896-4901	5.5	162

443	Cylindrical Microdomain Orientation of PS-b-PMMA on the Balanced Interfacial Interactions: Composition Effect of Block Copolymers. <i>Macromolecules</i> , <b>2009</b> , 42, 4902-4906	5.5	60
442	Modifying metal/polymer nanostructures using UV exposure. <i>Soft Matter</i> , <b>2009</b> , 5, 1683	3.6	13
441	Top-gated FETs/inverters with diblock copolymer self-assembled 20 nm contact holes. <b>2009</b> ,		0
440	Bimodal arrays of two types of nanoparticles by mixtures of diblock copolymer micelles. <b>2009</b> , 19, 1621		7
439	Nanostructures of diblock copolymer micelles for controlled fluorescence resonance energy transfer. <i>Soft Matter</i> , <b>2009</b> , 5, 2990	3.6	23
438	Synthesis of lead chalcogenide nanoparticles in block copolymer micelles: investigation of optical properties and fabrication of 2-D arrays of nanoparticles. <b>2009</b> , 19, 280-285		8
437	Azo Block Copolymers in the Solid State. 411-456		1
436	Recyclable nanostructured catalytic systems in modern environmentally friendly organic synthesis. <b>2010</b> , 15, 4792-814		48
435	Mesoscopic simulation of the self-organization of a binary mixture of copolymers in the vicinity of a selective adsorbing surface. <b>2010</b> , 52, 94-110		3
434	Synthesis and characterization of cobalt ferrite nanoparticles in hybrid micelles of poly[styrene-block-(ethylene oxide)] and sodium dodecyl sulfate. <b>2010</b> , 52, 849-855		1
433	Designing Three-Dimensional Materials at the Interface to Biology. <b>2010</b> , 163-192		9
432	Amphiphilic Polymers at Interfaces. <b>2010</b> , 151-201		21
431	Influence of nanoscale surface topography on protein adsorption and cellular response. <b>2010</b> , 5, 66-78		453
430	Formation of organically and inorganically passivated CdS nanoparticles in reverse microemulsions. <b>2010</b> , 288, 257-263		9
429	Micellization and Clouding Behavior of EOBO Block Copolymer in Aqueous Salt Solutions. <b>2010</b> , 13, 89-95		35
428	Temperature dependence of microscopic properties in diblock copolymer films: A dissipative particle dynamics simulation. <b>2010</b> , 14, 255-261		
427	Synthesis and characterization of mesoporous silica/poly(N-isopropylacrylamide) functional hybrid useful for drug delivery. <b>2010</b> , 45, 1478-1486		44
426	Synthesis of monoclinic WO <sub>3</sub> nanosphere hydrogen gasochromic film via a sol-gel approach using PS-b-PAA diblock copolymer as template. <b>2010</b> , 12, 1393-1398		33



425	Morphology Control of Highly Sulfonated Block Copolymers by a Simple Thermal Process. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 613-617	2.6	11
424	Morphology of Semicrystalline Diblock Copolymer Thin Films upon Directional Solvent Vapor Flow. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2102-2108	2.6	22
423	Surface Patterning of Poly(E-caprolactone): Epitaxial Crystallization and Enzymatic Degradation. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2480-2483	2.6	9
422	Highly ordered hexagonal arrays of hybridized micelles from bimodal self-assemblies of diblock copolymer micelles. <b>2010</b> , 31, 645-50		27
421	Transparent, versatile chemical vapor sensor using supramolecular assembly of block copolymer and carbon nanotubes. <b>2010</b> , 31, 1881-5		7
420	Antibacterial activity of poly(vinyl alcohol)-b-poly(acrylonitrile) based micelles loaded with silver nanoparticles. <b>2010</b> , 344, 424-8		43
419	Self-assembled templates for the generation of arrays of 1-dimensional nanostructures: from molecules to devices. <b>2010</b> , 349, 449-72		40
418	Solvent-induced morphological diversification in poly(l-lactide-b-e-caprolactone) block copolymer thin films. <b>2010</b> , 95, 1414-1420		5
417	Hexagonally ordered arrays of metallic nanodots from thin films of functional block copolymers. <b>2010</b> , 51, 2661-2667		33
416	Dynamic formation of SEBS copolymer submicrometric structures. <b>2010</b> , 51, 4145-4151		2
415	Long-range order of cylinders in diblock copolymer thin films using graphoepitaxy. <b>2010</b> , 518, 2783-2792		2
414	Mapping of carbon nanotubes in the polystyrene domains of a polystyrene-b-polyisoprene-b-polystyrene block copolymer matrix using electrostatic force microscopy. <b>2010</b> , 48, 2590-2595		20
413	PS-b-PEO block copolymer thin films as structured reservoirs for nanoscale precipitation reactions. <b>2010</b> , 48, 1569-1573		4
412	Synthesis and characterization of poly (indene-co-pyrrole) nanofibers. <b>2010</b> , 21, 888-895		30
411	Enhancement of electrical and thermal conductivities of a polysiloxane/metal complex with metal oxides. <b>2010</b> , 31, 1669-1677		6
410	Photoresponsive block copolymers containing azobenzenes and other chromophores. <b>2010</b> , 15, 570-603		59
409	Nanopatterning of ultrananocrystalline diamond thin films via block copolymer lithography. <b>2010</b> , 28, 979-983		8
408	Effect of nanoscale confinement on glass transition of polystyrene domains from self-assembly of block copolymers. <b>2010</b> , 132, 104904		43

407	Directed assembly of supramolecular copolymers in thin films: thermodynamic and kinetic advantages. <i>Physical Review Letters</i> , <b>2010</b> , 105, 108301	7.4	19
406	Probing the Sequestering of Carbon Nanotubes in the PS Domains of SIS Block Copolymer Matrix using Electrostatic Force Microscopy. <b>2010</b> ,		
405	Fabrication of Water-Soluble Nanocrystals using Amphiphilic Block Copolymer Patterned Surfaces. <b>2010</b> , 10, 5187-5192		7
404	Controlled synthesis of single-crystalline alpha-Fe <sub>2</sub> O <sub>3</sub> micro/nanoparticles from the complex precursor of FeCl <sub>3</sub> and methyl orange. <i>Nanotechnology</i> , <b>2010</b> , 21, 355602	3.4	9
403	Complex morphologies in thin films of symmetric diblock copolymers as stable and unstable phases. <i>Soft Matter</i> , <b>2010</b> , 6, 5891	3.6	17
402	Mesoporous Melamine Resins by Soft Templating of Block-co-Polymer Mesophases. <b>2010</b> , 22, 428-434		82
401	Highly ordered arrays of magnetic nanoparticles prepared via block copolymer assembly. <b>2010</b> , 20, 7734		40
400	Nanopatterned Surfaces for Bio-Detection. <b>2010</b> , 43, 1556-1571		11
399	The effect of the preferential affinity of the solvent on the microstructure of solution-cast block copolymer thin films. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 1264-70	3.4	21
398	Controlling order in block copolymer thin films for nanopatterning applications. <b>2010</b> , 1, 277-97		107
397	Poly(DL-lactide)-b-poly(N,N-dimethylamino-2-ethyl methacrylate): synthesis, characterization, micellization behavior in aqueous solutions, and encapsulation of the hydrophobic drug dipyrindamole. <i>Biomacromolecules</i> , <b>2010</b> , 11, 430-8	6.9	47
396	Thermoresponsive vesicular morphologies obtained by self-assemblies of hybrid oligosaccharide-block-poly(N-isopropylacrylamide) copolymer systems. <i>Langmuir</i> , <b>2010</b> , 26, 2325-32	4	82
395	Block Copolymer Surfactant Complexes in Thin Films for Multiple Usages from Hierarchical Structure to Nano-Objects. <i>Macromolecules</i> , <b>2010</b> , 43, 442-447	5.5	27
394	Cross-linked random copolymer mats as ultrathin nonpreferential layers for block copolymer self-assembly. <i>Langmuir</i> , <b>2010</b> , 26, 1311-5	4	50
393	Evaluation of Isoprene Chain Extension from PEO Macromolecular Chain Transfer Agents for the Preparation of Dual, Invertible Block Copolymer Nanoassemblies. <i>Macromolecules</i> , <b>2010</b> , 43, 7128-7138	5.5	41
392	Protein adsorption and cell adhesion/detachment behavior on dual-responsive silicon surfaces modified with poly(N-isopropylacrylamide)-block-polystyrene copolymer. <i>Langmuir</i> , <b>2010</b> , 26, 8582-8	4	98
391	Ring-Opening Metathesis Block Copolymerization of Amino Acid Functionalized Norbornene Monomers. Effects of Solvent and pH on Micelle Formation. <i>Macromolecules</i> , <b>2010</b> , 43, 1815-1822	5.5	34
390	Memory effects of diblock copolymer brushes and mixed brushes. <i>Langmuir</i> , <b>2010</b> , 26, 1291-303	4	21

389	Block copolymer nanocontainers. <b>2010</b> , 4, 2845-55		49
388	Investigation of thermally responsive block copolymer thin film morphologies using gradients. <b>2010</b> , 2, 3241-8		28
387	Thickness Dependence of Neutral Parameter Windows for Perpendicularly Oriented Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2010</b> , 43, 4744-4751	5.5	54
386	Nanostructured Macromolecules. <b>2010</b> , 1-78		2
385	Ultraporous Films with Uniform Nanochannels by Block Copolymer Micelles Assembly. <i>Macromolecules</i> , <b>2010</b> , 43, 8079-8085	5.5	182
384	Synthesis, Cocrystallization, and Microphase Separation of All-Conjugated Diblock Copoly(3-alkylthiophene)s. <i>Macromolecules</i> , <b>2010</b> , 43, 6422-6428	5.5	75
383	Nanostrand formation of block copolymers at the air/water interface. <b>2010</b> , 4, 6825-35		30
382	Functional and Nanostructured Materials Investigated by XPS and NEXAFS Spectroscopies. <b>2010</b> , 165-217		1
381	Effect of film thickness on the phase behaviors of diblock copolymer thin film. <b>2010</b> , 4, 3109-16		50
380	By what means should nanoscaled materials be constructed: molecule, medium, or human?. <b>2010</b> , 2, 198-214		43
379	Measuring excess free energies of self-assembled membrane structures. <b>2010</b> , 144, 369-91; discussion 445-81		33
378	Viscoelasticity of pore-spanning polymer membranes derived from giant polymersomes. <i>Soft Matter</i> , <b>2010</b> , 6, 2508	3.6	8
377	Enhanced white-light emission from multiple fluorophores encapsulated in a single layer of diblock copolymer micelles. <b>2011</b> , 47, 2787-9		29
376	Materials design using genetically engineered proteins. <b>2011</b> , 21, 18868		17
375	Polyoxometalate-modulated self-assembly of polystyrene-block-poly(4-vinylpyridine). <b>2011</b> , 47, 10019-21		30
374	Supramolecular assembly of biohybrid photoconversion systems. <b>2011</b> , 4, 181-188		16
373	Templated self-assembly in three dimensions using magnetic levitation. <i>Soft Matter</i> , <b>2011</b> , 7, 9113	3.6	45
372	Two-dimensional nanoparticle organization using block copolymer thin films as templates. <b>2011</b> , 21, 2028-2040		65

371	Plasma-polymer interactions: A review of progress in understanding polymer resist mask durability during plasma etching for nanoscale fabrication. <b>2011</b> , 29, 010801		144
370	Continuum theory for cluster morphologies of soft colloids. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7206-17	3-4	6
369	Hierarchical Nanostructures in Semifluorinated Norbornene Block Copolymers. <i>Macromolecules</i> , <b>2011</b> , 44, 958-965	5-5	11
368	Morphologies of Linear Triblock Copolymers from Monte Carlo Simulations. <i>Macromolecules</i> , <b>2011</b> , 44, 5490-5497	5-5	50
367	Constructing metal-based structures on nanopatterned etched silicon. <b>2011</b> , 5, 5015-24		20
366	Effect of Solvent Annealing on the Nano- and Micro-Structure of Block Copolymer Thin Film. <b>2011</b> , 50, 1298-1312		3
365	Ordered complex nanostructures from bimodal self-assemblies of diblock copolymer micelles with solvent annealing. <i>Langmuir</i> , <b>2011</b> , 27, 12191-6	4	7
364	Magnetic nanostructures for advanced technologies: fabrication, metrology and challenges. <b>2011</b> , 44, 303001		67
363	Characterization of Nanoporous Polystyrene Thin Films by Environmental Ellipsometric Porosimetry. <i>Macromolecules</i> , <b>2011</b> , 44, 8892-8897	5-5	19
362	Nanoparticles in Confined Structures: Formation and Application. <b>2011</b> , 207-233		1
361	Inherently reproducible fabrication of plasmonic nanoparticle arrays for SERS by combining nanoimprint and copolymer lithography. <b>2011</b> , 3, 1033-40		53
360	Block Copolymer Nanostructured Thin Films for Advanced Patterning. <b>2011</b> , 763-790		2
359	Functional Polymeric Nanostructures Prepared by Self-Assembly and Beyond. <b>2011</b> , 527-567		1
358	Complex Functional Macromolecules. <b>2011</b> , 1341-1385		
357	Bio-Inspired Complex Block Copolymers/Polymer Conjugates and Their Assembly. <b>2011</b> , 1307-1339		2
356	Nanopatterning by block copolymer micelle nanolithography and bioinspired applications. <b>2011</b> , 6, MR1-12		102
355	Self-assembly and morphology control of new L-glutamic acid-based amphiphilic random copolymers: giant vesicles, vesicles, spheres, and honeycomb film. <i>Langmuir</i> , <b>2011</b> , 27, 12844-50	4	58
354	Rapid Assembly of Nanolines with Precisely Controlled Spacing from Binary Blends of Block Copolymers. <i>Macromolecules</i> , <b>2011</b> , 44, 9752-9757	5-5	41

- 353 Scanning Probe-Based Lithography for Production of Biological and Organic Nanostructures on Surfaces. **2011**, 1-34 1
- 352 Mechanism of titania deposition into cylindrical poly(styrene-block-4 vinyl pyridine) block copolymer templates. *Langmuir*, **2011**, 27, 15206-12 4 11
- 351 Cross-Linked Nanoporous Materials from Reactive and Multifunctional Block Polymers. *Macromolecules*, **2011**, 44, 9310-9318 5.5 36
- 350 Directed Assembly of Block Copolymers by Sparsely Patterned Substrates. **2011**, 115, 25185-25200 30
- 349 Cyclical "flipping" of morphology in block copolymer thin films. **2011**, 5, 4617-23 62
- 348 Nanopatterning and Functionality of Block-Copolymer Thin Films. **2011**, 401-474 2
- 347 Periodic titania nanostructures using block copolymer templates. **2011**, 5, 450-6 47
- 346 Surface-directed dewetting of a block copolymer for fabricating highly uniform nanostructured microdroplets and concentric nanorings. **2011**, 5, 1073-85 34
- 345 . **2011**, 45
- 344 Dynamics of dislocations in a two-dimensional block copolymer system with hexagonal symmetry. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 335-50 3 16
- 343 High-Performance Microelectronics. **2011**, 359-385 1
- 342 On-Chip Integration of Functional Hybrid Materials and Components in Nanophotonics and Optoelectronics. **2011**, 339-391
- 341 Microphase separation in polydisperse miktoarm star copolymers. **2011**, 390, 3245-3261 7
- 340 Self-assembled monolayer-modified block copolymers for chemical surface nanopatterning. **2011**, 125, 382-385 2
- 339 Poly(4-Chloromethyl Styrene-g-4-Vinylpyridine)/TiO<sub>2</sub> Thin Films as Templates for the Synthesis of Polypyrrole in the Nanometer-Sized Domain. **2011**, 14, 433-444 22
- 338 Theoretical approaches to prediction of polymer properties. **2011**, 81, 268-276
- 337 Microphase separation in melts of diblock copolymers with nonlinear architecture. **2011**, 5, 345-356
- 336 The self-assembly of asymmetric block copolymers in films contacting a patterned surface. **2011**, 53, 261-270 2

335	Liquid-crystalline symmetric triblock copolymers. <b>2011</b> , 53, 633-644		5
334	Modification of composites of block copolymers-gold nanoparticles with enzymes and their characterization by electrochemical techniques. <b>2011</b> , 15, 697-702		1
333	Microdomain morphology of cylinder-forming diblock copolymers under spherical shell confinement. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2011</b> , 29, 684-691	3.5	9
332	Debye-Scherrer rings from block copolymer films with powder-like order. <b>2011</b> , 44, 370-379		34
331	Synthesis and phase-separation behavior of $\mu$ -difunctionalized diblock copolymers. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 926-937	2.5	8
330	Design and application of inorganic nanoparticle superstructures: current status and future challenges. <b>2011</b> , 7, 2133-46		177
329	Wafer-Level Self-Organized Copolymer Templates for Nanolithography with Sub-50 nm Feature and Spatial Resolutions. <b>2011</b> , 21, 1102-1112		32
328	Micelles from PEO-PPO-PEO block copolymers as nanocontainers for solubilization of a poorly water soluble drug hydrochlorothiazide. <b>2011</b> , 83, 49-57		89
327	Surfactant addition effects on dispersion and microdomain orientation in SBS triblock copolymer/alumina nanoparticle composites. <i>European Polymer Journal</i> , <b>2011</b> , 47, 1240-1249	5.2	14
326	Functionalization of amphiphilic coil-rod-coil triblock copolymer poly(2-vinylpyridine)-b-poly(n-hexyl isocyanate)-b-poly(2-vinylpyridine) with fluorescence moiety and C60. <b>2011</b> , 52, 1925-1931		10
325	Hierarchical self-assembly of two-length-scale multiblock copolymers. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 284110	1.8	7
324	The effect of heat treatment on the internal structure of nanostructured block copolymer films. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 254213	1.8	7
323	Effect of Solvent Vapor on the Morphology of Fluorinated Block Copolymer Films from Different Casting Solvent. <b>2011</b> , 550, 30-37		1
322	All-NDR crossbar logic. <b>2011</b> ,		1
321	Morphology-properties relationship on nanocomposite films based on poly(styrene-block-diene-block-styrene) copolymers and silver nanoparticles. <b>2011</b> , 5, 104-118		23
320	Nanostructured Polymeric Films for Cell Biology. <b>2011</b> , 341-355		
319	Synthetic biomimetic membranes and their sensor applications. <b>2012</b> , 12, 9530-50		63
318	Polycation-Capped CdS Quantum Dots Synthesized in Reverse Microemulsions. <b>2012</b> , 2012, 1-10		4

317	Ethanol Sensor Based on Hydrothermal Method Prepared Porous $\text{Fe}_2\text{O}_3$ Nanorods. <b>2012</b> , 476-478, 1075-1078		3
316	Generation of fluorescent silver nanoscale particles in reverse micelles using gamma irradiation. <b>2012</b> , 48, 10657-9		9
315	Mean field theory for a reversibly crosslinked polymer network. <b>2012</b> , 137, 024906		10
314	Strong stretching theory for diblock copolymers in thin films under application of electric fields. <b>2012</b> , 137, 044908		2
313	Phase behaviors and ordering dynamics of diblock copolymer self-assembly directed by lateral hexagonal confinement. <b>2012</b> , 137, 194905		13
312	Orientational order in cylinder-forming block copolymer thin films. <b>2012</b> , 86, 021507		20
311	Applications. <b>2012</b> , 241-283		
310	Highly oriented and ordered double-helical morphology in ABC triblock terpolymer films up to micrometer thickness by solvent evaporation. <b>2012</b> , 44, 567-572		15
309	Soft Graphoepitaxy of Hexagonal PS-b-PDMS on Nanopatterned POSS Surfaces fabricated by Nanoimprint Lithography. <b>2012</b> , 25, 239-244		11
308	Biomimetic Principles in Macromolecular Science. <b>2012</b> , 323-366		1
307	Synthesis and Characterization of All Acrylic Block Copolymer/Clay Nanocomposites Prepared via Surface Initiated Atom Transfer Radical Polymerization (SI-ATRP). <b>2012</b> , 51, 9760-9768		16
306	Hexagonally Perforated Layer Morphology in PS-b-P4VP(PDP) Supramolecules. <i>Macromolecules</i> , <b>2012</b> , 45, 9409-9418	5.5	32
305	Selective localization of multi-wall carbon nanotubes in homopolymer blends and a diblock copolymer. Rheological orientation studies of the final nanocomposites. <b>2012</b> , 53, 4438-4447		43
304	Microphase separation in a melt of graft copolymers formed by blocks with different grafting densities. <b>2012</b> , 6, 543-552		
303	Self-Assembled Polymer Supermolecules as Templates for Nanomaterials. <b>2012</b> ,		3
302	Benchmarking a self-consistent field theory for small amphiphilic molecules. <i>Soft Matter</i> , <b>2012</b> , 8, 9877	3.6	11
301	Palladium metal nanoparticle size control through ion paired structures of $[\text{PdCl}_4]^{2-}$ with protonated PDMAEMA. <b>2012</b> , 48, 8955-7		17
300	Polymer Masks Fabrication by Micropatterning Surfaces of Composite Polymer Coatings. <b>2012</b> , 26, 2531-2541		

299	Microphase separation-promoted crystallization in all-conjugated poly(3-alkylthiophene) diblock copolymers with high crystallinity and carrier mobility. <b>2012</b> , 22, 19213		31
298	Shear-induced alignment of lamellae in thin films of diblock copolymers. <i>Soft Matter</i> , <b>2012</b> , 8, 7803	3.6	16
297	Chebyshev Collocation in Polymer Field Theory: Application to Wetting Phenomena. <i>Macromolecules</i> , <b>2012</b> , 45, 2905-2919	5.5	14
296	Elucidation of novel nanostructures by time-lapse monitoring of polystyrene-block-polyvinylpyridine under chemical treatment. <i>Langmuir</i> , <b>2012</b> , 28, 8384-91	4	4
295	Aligned metallic nanoparticles on rippled surfaces: Optical characterization using generalized ellipsometry. <b>2012</b> , 258, 9278-9282		7
294	Facile fabrication of ordered Si <sub>1</sub> Ge <sub>x</sub> nanostructures via hybrid process of selective epitaxial growth (SEG) and self-assembled nanotemplates. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, 166-172	5.7	2
293	Nanostructures Based on Self-Assembly of Block Copolymers. <b>2012</b> , 191-216		2
292	Block Copolymer Thin Films. <b>2012</b> , 45-69		3
291	Block Copolymers in the Condensed State. <b>2012</b> , 3-44		13
290	Conformation-Dependent Design of Synthetic Functional Copolymers. <b>2012</b> , 689-723		3
289	Top-Down versus Bottom-Up Patterning of Polymers. <b>2012</b> , 9-35		4
288	Controlled End-Group Functionalization (Including Telechelics). <b>2012</b> , 351-412		6
287	Sulfonated copolymers with SO <sub>3</sub> H and COOH groups for the hydrolysis of polysaccharides. <b>2012</b> , 22, 1283-1289		46
286	Phase behavior of mesoporous silicas templated by the amphiphilic diblock copolymer poly(ethylene-b-ethylene oxide). <b>2012</b> , 163, 34-41		13
285	Materials self-assembly and fabrication in confined spaces. <b>2012</b> , 22, 10389		67
284	Symmetric Diblock Copolymers Confined by Two Nanopatterned Surfaces. <i>Macromolecules</i> , <b>2012</b> , 45, 2588-2596	5.5	24
283	Phase behavior of binary blends of diblock copolymer/homopolymer confined in spherical nanopores. <i>Langmuir</i> , <b>2012</b> , 28, 1569-78	4	31
282	Morphological transformation between three-dimensional gel network and spherical vesicles via sonication. <i>Soft Matter</i> , <b>2012</b> , 8, 4494	3.6	56



281	One-pot synthesis of block copolymers in supercritical carbon dioxide: a simple versatile route to nanostructured microparticles. <b>2012</b> , 134, 4772-81		88
280	Chain-growth polymerization of 2-chlorothiophenes promoted by Lewis acids. <b>2012</b> , 134, 18916-9		31
279	Study of the Thermal Stability of Supported Catalytic Nanoparticles for the Growth of Single-Walled Carbon Nanotubes with Narrow Diameter Distribution by Chemical Vapor Deposition of Methane. <b>2012</b> , 116, 24123-24129		10
278	Control of the orientation of symmetric poly(styrene)-block-poly(D,L-lactide) block copolymers using statistical copolymers of dissimilar composition. <i>Langmuir</i> , <b>2012</b> , 28, 15876-88	4	47
277	Synthesis and characterization of Q-PEO-b-PVBC and Q-PEO-b-(PVBC-grad-PS) combined RAFT polymerization and post-polymerization quaternization. <b>2012</b> , 19, 1		2
276	Large area tunable arrays of graphene nanodots fabricated using diblock copolymer micelles. <i>Nanotechnology</i> , <b>2012</b> , 23, 125301	3-4	22
275	Novel amphiphilic block copolymers derived from the selective fluorination and sulfonation of poly(styrene-block-1,3-cyclohexadiene). <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 338-345	2-5	7
274	Manipulating morphology and orientation in thermally responsive block copolymer thin films. <b>2012</b> , 50, 263-271		13
273	Core extractable nano-objects: Manipulating triblock copolymer micelles. <b>2012</b> , 50, 323-327		7
272	Fabrication of anisotropic metal nanostructures using innovations in template-assisted lithography. <b>2012</b> , 6, 998-1003		18
271	Synthesis and self-assembly of "tree-like" amphiphilic glycopolypeptides. <b>2012</b> , 48, 8353-5		62
270	Advances in top-down and bottom-up surface nanofabrication: techniques, applications & future prospects. <b>2012</b> , 170, 2-27		512
269	Synthesis of supported metal oxide nanoparticles with narrow size distribution. <b>2012</b> , 537, 113-117		2
268	Au nanopatterns on glass substrate using block copolymer and their applications in transparent conducting electrode. <b>2012</b> , 520, 5161-5164		2
267	Features of the phase behavior of block copolymers related to their polydispersity. <b>2012</b> , 54, 426-435		2
266	Micropatterns of Non-Circular Droplets of Nanostructured PS-b-PEO Copolymer by Solvent-Assisted Wetting on a Chemically Periodic Surface. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 431-438	2-6	6
265	Effect of hydrophilic chain length on the aqueous solution behavior of block amphiphilic copolymers PMMA-b-PDMAEMA. <b>2012</b> , 124, 202-208		17
264	Mesosopic simulation of the surface inducing effects on the compatibility of PS-b-PMMA copolymers. <b>2012</b> , 124, 879-889		3

- 263 Hierarchical metallic and ceramic nanostructures from laser interference ablation and block copolymer phase separation. **2013**, 5, 3912-7 7
- 262 Morphological Control of Helical Structures of an ABC-Type Triblock Terpolymer by Distribution Control of a Blending Homopolymer in a Block Copolymer Microdomain. *Macromolecules*, **2013**, 46, 6991-6997 5.5 50
- 261 Influence of the polydispersity of side chains on the phase behavior of multigraft copolymers. **2013**, 7, 50-61 2
- 260 High aspect ratio cylindrical microdomains oriented vertically on the substrate using block copolymer micelles and temperature-programmed solvent vapor annealing. *Soft Matter*, **2013**, 9, 5550 3.6 17
- 259 Synthesis of photochromic liquid-crystalline triblock copolymers by pseudoliving reversible addition-fragmentation chain-transfer polymerization. **2013**, 55, 294-303 5
- 258 PI-b-PMMA diblock copolymers: nanostructure development in thin films and nanostructuring of thermosetting epoxy systems. **2013**, 291, 2173-2180 1
- 257 ABAC Tetrablock Terpolymers for Tough Nanoporous Filtration Membranes. *Macromolecules*, **2013**, 46, 1484-1491 5.5 49
- 256 Polymer Vesicles on Surfaces. **2013**, 159-203
- 255 On Cylindrical PS-b-PMMA in Moderate and Weak Segregation. *Macromolecules*, **2013**, 46, 9045-9054 5.5 1
- 254 Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: fabrication of inorganic nanostructured etchmask for lithographic use. **2013**, 1, 7941 27
- 253 Solution study of novel diblock copolymers: Morphology and structural transition. **2013**, 54, 6971-6978 1
- 252 On the self-assembly of brush block copolymers in thin films. **2013**, 7, 9684-92 77
- 251 Tuning the enzymatic hydrolysis of biodegradable polyesters and its application to surface patterning. **2013**, 1, 4667 12
- 250 Self-assembly of diblock copolymers under confinement. *Soft Matter*, **2013**, 9, 1398-1413 3.6 190
- 249 Rutile TiO<sub>2</sub> Nanoparticles Dispersed in a Self-Assembled Polystyrene-block-polymethyl Methacrylate Diblock Copolymer Template. **2013**, 117, 1151-1156 11
- 248 Molecular motions in functional self-assembled nanostructures. **2013**, 14, 2303-33 44
- 247 Facile production of ordered 3D platinum nanowire networks with "single diamond" bicontinuous cubic morphology. **2013**, 25, 1160-4 55
- 246 Fluorescent gold clusters synthesized in a poly(ethyleneimine) modified reverse microemulsion. **2013**, 394, 141-6 15

245	Nanopatterning of substrates by self-assembly in supramolecular block copolymer monolayer films. <b>2013</b> , 56, 48-55		4
244	Supramolecular PS-P4VP diblock copolymer thin films slowly dip-coated from chloroform solutions. <b>2013</b> , 56, 33-39		1
243	Emerging trends in metal-containing block copolymers: synthesis, self-assembly, and nanomanufacturing applications. <b>2013</b> , 1, 2080		70
242	Ferroelectric nanoparticles, wires and tubes: synthesis, characterisation and applications. <b>2013</b> , 1, 2618		121
241	Self-assembly of PS-b-P4VP block copolymers of varying architectures in aerosol nanospheres. <i>Soft Matter</i> , <b>2013</b> , 9, 1492-1499	3.6	23
240	Optical properties of a metallo-dielectric nanocomposite: small gold spherical nanoparticles in a cylindrical di-block copolymer. <b>2013</b> , 86, 1		2
239	LASER INDUCED SURFACE PROCESSING WITH GOLD NANOPARTICLE ARRAYS EMBEDDED IN A TRANSPARENT MATRIX. <b>2013</b> , 08, 1350003		
238	Size-dependent magnetization switching characteristics and spin wave modes of FePt nanostructures. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 203910	2.5	9
237	Surface Patterning. <b>2013</b> , 276-301		3
236	Chapter 8:Methods for Improving the Integration of Functionalized Carbon Nanotubes in Polymers. <b>2013</b> , 234-252		2
235	High Molecular Weight Block Copolymers by Sequential Monomer Addition via Cu(0)-Mediated Living Radical Polymerization (SET-LRP): An Optimized Approach. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 896-900	6.6	111
234	Surface Intaglio Nanostructures on Microspheres of Gold-Cored Block Copolymer Spheres. <b>2013</b> , 25, 4416-4422		31
233	Templated synthesis of nanostructured materials. <b>2013</b> , 42, 2610-53		699
232	A Step-Wise Approach for Dual Nanoparticle Patterning via Block Copolymer Self-Assembly. <b>2013</b> , 23, 483-490		43
231	Nanoporous membranes by cooperative self-assembly of functionalized SEBS and titania. <b>2013</b> , 45, 1252-1260		2
230	Sub-15 nm Silicon Lines Fabrication via PS-b-PDMS Block Copolymer Lithography. <b>2013</b> , 2013, 1-7		4
229	A Diblock-Diblock Copolymer Mixture under Parallel Wall Confinement. <b>2013</b> , 30, 046401		4
228	Phase behaviors in a binary mixture of diblock copolymers confined between two parallel walls. <b>2013</b> , 22, 026401		10

227	Magnetic Field-Directed Self-Assembly of Magnetic Nanoparticle Chains in Bulk Polymers. <b>2013</b> , 30, 759-763	18
226	Engineering nanoporous biomaterials. <b>2013</b> , 64-88	
225	Chirality in block copolymer melts: mesoscopic helicity from intersegment twist. <i>Physical Review Letters</i> , <b>2013</b> , 110, 058301	7.4 29
224	Copolymer/biomopolymer mixtures in a nanopore. <b>2013</b> , 22, 096401	6
223	MICROPHASE SEPARATION IN POLYDISPERSE GRAFT COPOLYMERS. <b>2013</b> , 27, 1350189	
222	Replication of mesoporous silica films from block copolymer films through a chemical vapor approach. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 10478-81	4.8 4
221	Modeling Chemoepitaxy of Block Copolymer Thin Films using Self-Consistent Field Theory. <b>2013</b> , 26, 817-823	14
220	Fabrication of large-area, high-density Ni nanopillar arrays on GaAs substrates using diblock copolymer lithography and electrodeposition. <b>2013</b> , 31, 031801	3
219	Traceable GISAXS measurements for pitch determination of a 25 nm self-assembled polymer grating. <b>2014</b> , 47, 1912-1920	9
218	Three-dimensional block copolymer nanostructures by the solvent-annealing-induced wetting in anodic aluminum oxide templates. <b>2014</b> , 35, 1598-605	28
217	Nanotopographical Surfaces for Stem Cell Fate Control: Engineering Mechanobiology from the Bottom. <b>2014</b> , 9, 759-784	136
216	Mesoporous Transition Metal Oxide Ceramics. <b>2014</b> , 839-869	
215	A Dual-Functional [SBA-15/Fe <sub>3</sub> O <sub>4</sub> /P(N-iPAAm)] Hybrid System as a Potential Nanoplatforrm for Biomedical Application. <b>2014</b> , 2014, 1-10	8
214	Fabrication of Periodic Microstructures on Nickel Template by Multi-Beam Laser Interference. <b>2014</b> , 618, 146-149	
213	Advanced Fabrication Methods and Techniques. <b>2014</b> , 87-170	1
212	Nanostructure Formation in Block Copolymers. <b>2014</b> , 195-271	3
211	Lamellar Liquid Crystalline Mesophases doped with inorganic nanoparticles. <b>2014</b> , 15, 1270-82	11
210	Nanoscale arrangement of diblock copolymer micelles with Au nanorods. <i>Nanotechnology</i> , <b>2014</b> , 25, 455602	3.4 1

209	Fabrication of various nano-structured nickel stamps using anodic aluminum oxide. <b>2014</b> , 20, 2157-2163		3
208	Selective etching of polylactic acid in poly(styrene)-block-poly(d,l)lactide diblock copolymer for nanoscale patterning. <b>2014</b> , 131, n/a-n/a		16
207	Molecular Design of Liquid Crystalline Brush-Like Block Copolymers for Magnetic Field Directed Self-Assembly: A Platform for Functional Materials.. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 462-466	6.6	49
206	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. <b>2014</b> , 5, 3813		630
205	Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction. <b>2014</b> , 24, 2764-2771		58
204	Photoresponsive block copolymer: synthesis, characterization, and surface activity control. <i>Langmuir</i> , <b>2014</b> , 30, 3957-66	4	18
203	25th anniversary article: scalable multiscale patterned structures inspired by nature: the role of hierarchy. <b>2014</b> , 26, 675-700		167
202	Azopolymer-based micro- and nanopatterning for photonic applications. <b>2014</b> , 52, 163-182		208
201	Block Copolymer Self Assembly during Rapid Solvent Evaporation: Insights into Cylinder Growth and Stability. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 16-20	6.6	76
200	Mixed-morphology and mixed-orientation block copolymer bilayers. <b>2014</b> , 4, 38412-38417		11
199	Directed self-assembly of block copolymers: a tutorial review of strategies for enabling nanotechnology with soft matter. <i>Soft Matter</i> , <b>2014</b> , 10, 3867-89	3.6	280
198	A bio-inspired microstructure induced by slow injection moulding of cylindrical block copolymers. <i>Soft Matter</i> , <b>2014</b> , 10, 6077-86	3.6	16
197	Adsorption energies of poly(ethylene oxide)-based surfactants and nanoparticles on an air-water surface. <i>Langmuir</i> , <b>2014</b> , 30, 110-9	4	23
196	Natural gum rosin thin films nanopatterned by poly(styrene)-block-poly(4-vinylpyridine) block copolymer. <b>2014</b> , 4, 32024		11
195	Optical and conductive properties of as-synthesized organic-capped TiO <sub>2</sub> nanorods highly dispersible in polystyrene-block-poly(methyl methacrylate) diblock copolymer. <b>2014</b> , 6, 11805-14		11
194	pH-responsive PDMS-b-PDMAEMA micelles for intracellular anticancer drug delivery. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3235-45	6.9	75
193	Complex microstructures of ABC triblock copolymer thin films directed by polymer brushes based on self-consistent field theory. <b>2014</b> , 9, 359		4
192	Nanoparticle directed domain orientation in thin films of asymmetric block copolymers. <b>2014</b> , 292, 2249-2260		15

191	Polymeric Biomaterials for Implantable Prostheses. <b>2014</b> , 309-331		12
190	Photoreconfigurable polymers for biomedical applications: chemistry and macromolecular engineering. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3474-94	6.9	63
189	Depth-Dependent Structural Changes in PS-b-P2VP Thin Films Induced by Annealing. <i>Macromolecules</i> , <b>2014</b> , 47, 5719-5727	5.5	32
188	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. <b>2014</b> , 55, 1327-1332		46
187	Creation of lateral structures in diblock copolymer thin films during vapor uptake and subsequent drying Effect of film thickness. <i>European Polymer Journal</i> , <b>2014</b> , 50, 87-96	5.2	7
186	Effect of nanoparticle surface functionality on microdomain orientation in block copolymer thin films under electric field. <b>2014</b> , 55, 2014-2020		7
185	Sonication induced morphological transformation between 3D gel network and globular structure in a two-component gelation system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 452, 165-172	5.1	15
184	Preparation and morphology control of amphiphilic block copolymer thin films using mixed solvent vapors. <b>2014</b> , 295, 245-252		0
183	Superhydrophobic perfluoropolymer surfaces having heterogeneous roughness created by dip-coating from solutions containing a nonsolvent. <b>2014</b> , 292, 591-597		41
182	Block Copolymer Nanopatterns as Enabling Platforms for Device Applications Status, Issues, and Challenges. <b>2014</b> , 239-273		1
181	Nanoparticles in Confined Structures: Formation and Application. <b>2014</b> , 207-233		
180	Morphology determination of defect-rich diblock copolymer films with time-of-flight grazing-incidence small-angle neutron scattering. <b>2014</b> , 47, 1228-1237		17
179	Nanoelectrochemistry of Carbon. <b>2015</b> , 308-371		
178	Theoretical Consideration of Phase Behavior of the Products of Free-Radical Copolymerization Described by the Penultimate Model. <b>2015</b> , 24, 442-459		1
177	Directed self-oriented self-assembly of block copolymers using topographical surfaces. <b>2015</b> , 99-127		1
176	Mapping the morphological changes of deposited gold nanoparticles across an imprinted groove. <b>2015</b> , 48, 1827-1833		13
175	Synthesis and characterization of polystyrene-block-poly(vinylbenzoic acid): a promising compound for manipulating photoresponsive properties at the nanoscale. <b>2015</b> , 50, 2788-2796		11
174	Well-Ordered Nanoporous ABA Copolymer Thin Films via Solvent Vapor Annealing, Homopolymer Blending, and Selective Etching of ABAC Tetrablock Terpolymers. <b>2015</b> , 7, 27331-9		6

173	Three-dimensional nanomasks using block copolymers confined in the nanopores of anodic aluminum oxide templates. <b>2015</b> , 3, 52-56		4
172	Stimuli responsive nanostructured porous network from triblock copolymer self-assemblies. <b>2015</b> , 6, 2023-2028		13
171	High-Resolution Metal Nanopatterning by Means of Switchable Block Copolymer Templates. <b>2015</b> , 7, 12559-69		31
170	Controllable hierarchical microstructures self-assembled from multiblock copolymers confined in thin films. <i>Langmuir</i> , <b>2015</b> , 31, 2533-44	4	15
169	Phase behavior of model poly(butadiene 1,3)-block-(dimethylsiloxane) copolymers. <b>2015</b> , 59, 180-186		5
168	Generation of fluorescent silver nanoclusters in reverse micelles using gamma irradiation: low vs. high dosages and spectral evolution with time. <b>2015</b> , 5, 411-418		
167	Filtration membranes from self-assembled block copolymers: A review on recent progress. <b>2015</b> , 224, 1883-1897		18
166	Microphase separation induced in the melt of Pluronic copolymers by blending with a hydrogen bonding urea-urethane end-capped supramolecular polymer. <i>Soft Matter</i> , <b>2015</b> , 11, 5799-803	3.6	7
165	Structural Analysis of Microphase Separated Interface in an ABC-Type Triblock Terpolymer by Combining Methods of Synchrotron-Radiation Grazing Incidence Small-Angle X-ray Scattering and Electron Microtomography. <i>Macromolecules</i> , <b>2015</b> , 48, 2697-2705	5.5	17
164	Self-alignment of silver nanoparticles in highly ordered 2D arrays. <b>2015</b> , 10, 101		9
163	Fluorinated amphiphilic block copolymers via RAFT polymerization and their application as surf-RAFT agent in miniemulsion polymerization. <b>2015</b> , 5, 15461-15468		18
162	Block Copolymer Nanostructures and Their Applications: A Review. <b>2015</b> , 54, 1077-1095		14
161	Plasmonic Properties of Metallic Nanostructures, Two Dimensional Materials, and Their Composites. <b>2015</b> , 165-189		1
160	Two-step self-assembly of hierarchically-ordered nanostructures. <b>2015</b> , 3, 11688-11699		44
159	Synthesis of Materials with Nanostructured Periodicity. <b>2015</b> , 93-113		1
158	Synthesis and stabilization of Pt nanoparticles in core cross-linked micelles prepared from an amphiphilic diblock copolymer. <b>2015</b> , 293, 3563-3572		12
157	Polymers of intrinsic microporosity as high temperature templates for the formation of nanofibrous oxides. <b>2015</b> , 5, 73323-73326		17
156	The Diels-Alder reaction: A powerful tool for the design of drug delivery systems and biomaterials. <b>2015</b> , 97, 438-53		101

155	Thickness-dependent ordering of perpendicularly oriented lamellae in PS-b-PMMA thin films. <b>2015</b> , 74, 63-69		9
154	Stable nanoporous thin films through one-step UV treatment of a block copolymer precursor. <b>2015</b> , 5, 98105-98109		6
153	Microphase Separation and Crystallization in All-Conjugated Poly(3-alkylthiophene) Diblock Copolymers. <i>Macromolecules</i> , <b>2015</b> , 48, 279-286	5.5	16
152	Block copolymer-nanoparticle composites: Structure, functional properties, and processing. <i>Progress in Polymer Science</i> , <b>2015</b> , 40, 33-62	29.6	168
151	Tuned, driven, and active soft matter. <b>2015</b> , 554, 1-45		197
150	Bioinspired Materials for Water Purification. <b>2016</b> , 9,		14
149	Investigating Polymer-Metal Interfaces by Grazing Incidence Small-Angle X-Ray Scattering from Gradients to Real-Time Studies. <b>2016</b> , 6,		23
148	Predicting the Flory-Huggins $\chi$ Parameter for Polymers with Stiffness Mismatch from Molecular Dynamics Simulations. <i>Polymers</i> , <b>2016</b> , 8,	4.5	36
147	Self-Consistent Field Theory within Hildebrand Approximation: Microphase Separation in Gradient Copolymers. <b>2016</b> , 25, 466-474		2
146	Sequential deposition of block copolymer thin films and formation of lamellar heterolattices by electrospray deposition. <b>2016</b> , 54, 247-253		11
145	Diblock copolymers of polystyrene-b-poly(1,3-cyclohexadiene) exhibiting unique three-phase microdomain morphologies. <b>2016</b> , 54, 1564-1572		4
144	Block copolymer thin films: Characterizing nanostructure evolution with in situ X-ray and neutron scattering. <b>2016</b> , 105, 545-561		26
143	UV-solvent annealing of PDMS-majority and PS-majority PS-b-PDMS block copolymer films. <i>Nanotechnology</i> , <b>2016</b> , 27, 465301	3.4	8
142	Synthesis of diblock copolymers of indomethacin/aspartic acid conjugated norbornenes and characterization of their self-assembled nanostructures as drug carriers. <i>European Polymer Journal</i> , <b>2016</b> , 85, 211-224	5.2	10
141	Functional nanostructured materials based on self-assembly of block copolymers. <b>2016</b> , 41, 100-107		26
140	Tuning phase structures of a symmetrical diblock copolymer with a patterned electric field. <i>Soft Matter</i> , <b>2016</b> , 12, 4449-56	3.6	6
139	Reversible morphology control of three-dimensional block copolymer nanostructures by the solvent-annealing-induced wetting in anodic aluminum oxide templates. <b>2016</b> , 65, 695-701		6
138	Confinement effects on the miscibility of block copolymer blends. <b>2016</b> , 39, 43		1



137	Enthalpy-driven selective loading of CdSe <sub>0.75</sub> Si <sub>0.25</sub> nanoalloys in triblock copolymer polystyrene- <i>b</i> -polyisoprene- <i>b</i> -polystyrene. <b>2016</b> , 8, 91-99		1
136	Shear-Aligned Block Copolymer Monolayers as Seeds To Control the Orientational Order in Cylinder-Forming Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2016</b> , 49, 7588-7596	5.5	19
135	Improvement of a block co-polymer (PS- <i>b</i> -PMMA)-masked silicon etch profile using a neutral beam. <i>Nanotechnology</i> , <b>2016</b> , 27, 384002	3.4	1
134	Syntheses and morphologies of fluorinated diblock copolymer prepared via RAFT polymerization. <b>2016</b> , 189, 51-58		16
133	Synthesis of P3HT- <i>b</i> -PS donor-acceptor diblock copolymer carrying pendant fullerenes at precise positions along the PS block. <i>European Polymer Journal</i> , <b>2016</b> , 83, 148-160	5.2	2
132	Biomaterial Functionalized Surfaces for Reducing Bacterial Adhesion and Infection. <b>2016</b> , 757-784		
131	Uncontrolled Preparation of Disperse Poly(lactide)-block-poly(styrene)-block-poly(lactide) for Nanopatterning Applications. <i>Macromolecules</i> , <b>2016</b> , 49, 8031-8040	5.5	12
130	Functional twin monomers and twin macro monomers as components for the synthesis of hierarchically nanostructured hybrid materials*. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 2312-2320	2.5	4
129	Polyferrocenylsilanes: synthesis, properties, and applications. <b>2016</b> , 45, 5358-407		208
128	Silver Nanoparticle Arrays Prepared by In Situ Automatic Reduction of Silver Ions in Mussel-Inspired Block Copolymer Films. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 726-734	2.6	17
127	Frustrated phases under three-dimensional confinement simulated by a set of coupled Cahn-Hilliard equations. <i>Soft Matter</i> , <b>2016</b> , 12, 5905-14	3.6	23
126	Strategies for Inorganic Incorporation using Neat Block Copolymer Thin Films for Etch Mask Function and Nanotechnological Application. <b>2016</b> , 28, 5586-618		107
125	Cell Dynamics Simulations of Sphere-Forming Diblock Copolymers in Thin Films on Chemically Patterned Substrates. <i>Macromolecules</i> , <b>2016</b> , 49, 1079-1092	5.5	10
124	Ytterbium oxide nanodots via block copolymer self-assembly and their efficacy to dye-sensitized solar cells. <b>2016</b> , 364, 573-578		8
123	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. <b>2016</b> , 10, 919-29		41
122	Fabrication and study of properties of magnetite nanoparticles in hybrid micelles of polystyrene-block-polyethylene oxide and sodium dodecyl sulfate. <b>2016</b> , 61, 77-83		1
121	Cyclic Solvent Annealing Improves Feature Orientation in Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2016</b> , 49, 1743-1751	5.5	20
120	Nanostructures of 3-aminopropyltriethoxysilane created on flat substrate by combining colloid lithography and vapor deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 495, 39-45	5.1	5

- <sup>119</sup> Phase Behavior of Alkyne-Functionalized Styrenic Block Copolymer/Cobalt Carbonyl Adducts and in Situ Formation of Magnetic Nanoparticles by Thermolysis. *Macromolecules*, **2016**, 49, 853-865 5.5 11
- <sup>118</sup> Microphase separation of short wormlike diblock copolymers with a finite interaction range. *Soft Matter*, **2016**, 12, 2481-90 3.6 9
- <sup>117</sup> Crystallization and Microphase Morphology of Side-Chain Cross-Linkable Poly(3-hexylthiophene)-block-poly[3-(6-hydroxy)hexylthiophene] Diblock Copolymers. *Macromolecules*, **2016**, 49, 287-297 5.5 24
- <sup>116</sup> Solvent vapor annealing in block copolymer nanocomposite films: a dynamic mean field approach. *Soft Matter*, **2016**, 13, 239-249 3.6 27
- <sup>115</sup> Photopolymerization kinetics in and of self-assembling lyotropic liquid crystal templates. **2017**, 55, 471-489 11
- <sup>114</sup> Virus-like particles composed of sphere-forming polystyrene-block-poly(t-butyl acrylate) (PS-b-PtBA) and control of surface morphology by homopolymer blending. **2017**, 8, 1754-1759 18
- <sup>113</sup> Transparent nanostructured cellulose acetate films based on the self assembly of PEO-b-PPO-b-PEO block copolymer. **2017**, 165, 437-443 12
- <sup>112</sup> Directed self-assembly of block copolymer-based nanocomposites in thin films. **2017**, 28, 613-622 7
- <sup>111</sup> AAO Templates with Different Patterns and Channel Shapes. **2017**, 107-156 5
- <sup>110</sup> Phase separation of composite materials through simultaneous polymerization and crystallization. **2017**, 9, e377-e377 11
- <sup>109</sup> Block copolymer synthesis in one shot: concurrent metal-free ATRP and ROP processes under sunlight. **2017**, 8, 2899-2903 54
- <sup>108</sup> A new class of self-healable hydrophobic materials based on ABA triblock copolymer via RAFT polymerization and Diels-Alder click chemistry **2017**, 119, 195-205 32
- <sup>107</sup> Selective solvent-induced reconstruction in confined space: one-dimensional mesoporous block copolymer structures in cylindrical nanopores. **2017**, 8, 3399-3404 2
- <sup>106</sup> Application of Bottlebrush Block Copolymers as Photonic Crystals. **2017**, 38, 1700058 137
- <sup>105</sup> Polymer materials for electrochemical applications: Processing in supercritical fluids. **2017**, 127, 229-246 17
- <sup>104</sup> Investigations on the Phase Diagram and Interaction Parameter of Poly(styrene-b-1,3-cyclohexadiene) Copolymers. *Macromolecules*, **2017**, 50, 2354-2363 5.5 4
- <sup>103</sup> Nanoscale silicon substrate patterns from self-assembly of cylinder forming poly(styrene)-block-poly(dimethylsiloxane) block copolymer on silane functionalized surfaces. *Nanotechnology*, **2017**, 28, 044001 3.4 4
- <sup>102</sup> Self-assembly of nucleopeptides to interact with DNAs. **2017**, 7, 20160116 12

101	Symmetric Confined Growth of Superstructured Vanadium Dioxide Nanonet with a Regular Geometrical Pattern by a Solution Approach. <b>2017</b> , 17, 5838-5844		10
100	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. <b>2017</b> , 9, 16981-16992		8
99	Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. <b>2017</b> , 131, 1-9		19
98	Molecular Dynamics Study of Polystyrene-b-poly(ethylene oxide) Asymmetric Diblock Copolymer Systems. <i>Langmuir</i> , <b>2017</b> , 33, 8856-8868	4	4
97	DNA-based materials as chemical reactors for synthesis of metal nanoparticles. <b>2017</b> , 59, 18-28		2
96	Investigation on the function of nonionic surfactants during compressed CO-mediated periodic mesoporous organosilica formation. <i>Soft Matter</i> , <b>2017</b> , 13, 5704-5713	3.6	9
95	Ambipolar charge transport in a donor-acceptor-donor-type conjugated block copolymer and its gate-voltage-controlled thin film transistor memory. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 3223-3235	2.5	4
94	On the Dimensional Control of 2 D Hybrid Nanomaterials. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12534-12541	4.1	4
93	Chemical and physical modification of layer-by-layer assembled nanofilms composed of block copolymer micelles and graphene oxide for controlled drug release. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 56, 413-421	6.3	10
92	Kinetics of Domain Alignment in Block Polymer Thin Films during Solvent Vapor Annealing with Soft Shear: An in Situ Small-Angle Neutron Scattering Investigation. <i>Macromolecules</i> , <b>2017</b> , 50, 5367-5376	5.5	11
91	Intradomain Textures in Block Copolymers: Multizone Alignment and Biaxiality. <i>Physical Review Letters</i> , <b>2017</b> , 118, 247801	7.4	14
90	Fabrication routes for one-dimensional nanostructures via block copolymers. <i>Nano Convergence</i> , <b>2017</b> , 4, 12	9.2	21
89	Block Copolymers: Synthesis, Self-Assembly, and Applications. <i>Polymers</i> , <b>2017</b> , 9,	4.5	196
88	4.15 Patterned Biointerfaces. <b>2017</b> , 248-271		1
87	3.22 Nanostructured Polymeric Films for Cell Biology. <b>2017</b> , 482-497		
86	Design and development of pharmaceutical microprocesses in the production of nanomedicine. <b>2017</b> , 669-697		4
85	SCFT Study of Diblock Copolymer Melts in Electric Fields: Selective Stabilization of Orthorhombic Fddd Network Phase. <i>Macromolecules</i> , <b>2018</b> , 51, 3369-3378	5.5	9
84	Transformation of Block Copolymer Nanoparticles from Ellipsoids with Striped Lamellae into Onionlike Spheres and Dynamical Control via Coupled Cahn-Hilliard Equations. <i>ACS Omega</i> , <b>2018</b> , 3, 1304-1314	2.9	18

83	Fluctuation Effects in Semiflexible Diblock Copolymers. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 59-64	6.6	6
82	Influence of Regio-Configuration on the Phase Diagrams of Double-Chain Giant Surfactants. <i>Macromolecules</i> , <b>2018</b> , 51, 1110-1119	5.5	15
81	Spin Solid versus Magnetic Charge Ordered State in Artificial Honeycomb Lattice of Connected Elements. <i>Advanced Science</i> , <b>2018</b> , 5, 1700856	13.6	10
80	'Switch' catalysis: from monomer mixtures to sequence-controlled block copolymers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2018</b> , 376,	3	47
79	Cyclodextrin-Functionalized ordered porous block copolymer films: Preparation and property. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2018</b> , 36, 34-42	3.5	2
78	Preparation of Cross-Linked Micelles from Glycidyl Methacrylate Based Block Copolymers and Their Usages as Nanoreactors in the Preparation of Gold Nanoparticles. <i>Journal of Polymer Science Part A</i> , <b>2018</b> , 56, 514-526	2.5	12
77	Functional Modification of Silica through Enhanced Adsorption of Elastin-Like Polypeptide Block Copolymers. <i>Biomacromolecules</i> , <b>2018</b> , 19, 298-306	6.9	10
76	Membrane preparation by sequential spray deposition of polymer PISA nanoparticles. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 42-49	9.6	17
75	Metal-Free Organic Semiconductors for Visible-Light-Active Photocatalytic Water Splitting. <b>2018</b> , 329-363		
74	Effect of the Strength of Attraction Between Nanoparticles on Wormlike Micelle- Nanoparticle System. <i>Condensed Matter</i> , <b>2018</b> , 3, 31	1.8	0
73	Blending Mechanism of PS- b-PEO and PS Homopolymer at the Air/Water Interface and Their Morphological Control. <i>Langmuir</i> , <b>2018</b> , 34, 10293-10301	4	7
72	Magnetic and magneto-optical properties of assembly of nanodots obtained from solid-state dewetting of ultrathin cobalt layer. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 495805	1.8	2
71	Anomalous Variation of Excited-State Proton Transfer Dynamics inside a Triblock Copolymer-Cationic Surfactant Mixed Micelle. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8559-8568	3.4	7
70	Order-Order Phase Transitions Induced by Supercritical Carbon Dioxide in Triblock Copolymer Thin Films. <i>Macromolecules</i> , <b>2019</b> , 52, 7786-7797	5.5	4
69	Organic Templates for Inorganic Nanocrystal Growth. <i>Energy and Environmental Materials</i> , <b>2019</b> , 2, 38-54	13	14
68	Photo-polymerization. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 1-52	0.6	0
67	A non-lithographic plasma nanoassembly technology for polymeric nanodot and silicon nanopillar fabrication. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 475-484	4.5	2
66	A comprehensive review of electrospinning block copolymers. <i>Soft Matter</i> , <b>2019</b> , 15, 2490-2510	3.6	35

65	Effects of Randomly End-Linked Copolymer Network Parameters on the Formation of Disordered Cocontinuous Phases. <i>Macromolecules</i> , <b>2019</b> , 52, 2642-2650	5.5	6
64	Atmospheric pressure plasma directed assembly during photoresist removal: A new route to micro and nano pattern formation. <i>Micro and Nano Engineering</i> , <b>2019</b> , 3, 15-21	3.4	7
63	Formation Mechanisms of Porous Particles from Self-Assembly of Amphiphilic Diblock Copolymers inside an Oil-in-Water Emulsion Droplet upon Solvent Evaporation. <i>Langmuir</i> , <b>2019</b> , 35, 5902-5910	4	2
62	Versatile PISA templates for tailored synthesis of nanoparticles. <i>European Polymer Journal</i> , <b>2019</b> , 110, 49-55	5.2	14
61	2D ultra-thin WO <sub>3</sub> nanosheets with dominant {002} crystal facets for high-performance xylene sensing and methyl orange photocatalytic degradation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 783, 848-854	5.7	41
60	Photo-polymerization. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 1-53	0.6	
59	Specific Interactions and Self-Organization in Polymer/Functionalized Nanoparticle Systems. <b>2019</b> , 85-117		2
58	Process-directed self-assembly of copolymers: Results of and challenges for simulation studies. <i>Progress in Polymer Science</i> , <b>2020</b> , 101, 101198	29.6	27
57	DNA-functionalized gold nanoparticle assemblies for Surface Enhanced Raman Scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 589, 124399	5.1	9
56	Effect of Solvent Selectivity on Chain Exchange Kinetics in Block Copolymer Micelles. <i>Macromolecules</i> , <b>2020</b> , 53, 417-426	5.5	10
55	Nanoscale Mapping of Thermal and Mechanical Properties of Bare and Metal-Covered Self-Assembled Block Copolymer Thin Films. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 487-496	4.3	9
54	Molybdenum rods assembled with nanosheets: a high catalytic material for phenol sensing. <i>Materials Today Chemistry</i> , <b>2020</b> , 18, 100347	6.2	1
53	Progress and perspective on polymer templating of multifunctional oxide nanostructures. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 190903	2.5	4
52	Directed Self-Assembly of Block Copolymers for the Fabrication of Functional Devices. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
51	Fabrication of Dual Nanopatterns by Spatial Control of Nanodomain Orientation of Block Copolymer Thin Films. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4090-4095	4.3	4
50	Dot Nanopattern Self-Assembled from Rod-Coil Block Copolymer on Substrate. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2000254	2.6	1
49	pH-responsive nano-structured membranes prepared from oppositely charged block copolymer nanoparticles and iron oxide nanoparticles. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118181	9.6	12
48	Dispersity-Driven Stabilization of Coexisting Morphologies in Asymmetric Diblock Copolymer Thin Films. <i>Macromolecules</i> , <b>2021</b> , 54, 450-459	5.5	1

47	Fabrication strategies for functionalized nanomaterials. <b>2021</b> , 55-95		1
46	Self-organization of a 4-miktoarm star block copolymer induced by cylindrical confinement. <i>Soft Matter</i> , <b>2021</b> , 17, 4929-4941	3.6	3
45	Defect-Induced Order-Order Phase Transition in Triblock Copolymer Thin Films. <i>Macromolecules</i> , <b>2021</b> , 54, 1639-1647	5.5	0
44	Role of Block Copolymers in Tissue Engineering Applications. <i>Cells Tissues Organs</i> , <b>2021</b> , 1-14	2.1	2
43	Triazine-Based Janus G-C Nucleobase as a Building Block for Self-Assembly, Peptide Nucleic Acids, and Smart Polymers. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 3186-3195	4.2	1
42	Grazing-Incidence Small-Angle Scattering. <b>2021</b> , 241-272		
41	Simple solvothermal approach to highly nanostructured hematite thin films. <i>Canadian Journal of Chemistry</i> , <b>2021</b> , 99, 355-361	0.9	1
40	Direct Observation of Confinement Effects of Semiconducting Polymers in Polymer Blend Electronic Systems. <i>Advanced Science</i> , <b>2021</b> , 8, 2100332	13.6	3
39	Synthesis of bimetallic nanoparticles loaded on to PNIPAM hybrid microgel and their catalytic activity. <i>Scientific Reports</i> , <b>2021</b> , 11, 14759	4.9	3
38	Thermally induced self-assembly of poly(4-(tert-butyldimethylsiloxy)styrene-b-2-vinylpyridine) with extremely reduced roughness of patterns. <i>European Polymer Journal</i> , <b>2021</b> , 157, 110653	5.2	1
37	Synthesis of well-defined block copolymer composed of flexible amphiphilic poly(ethylene glycol) and hydrophobic liquid crystalline segments by living coordination polymerization of allene derivatives and its application to thin film with perpendicularly oriented cylindrical nanostructure. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, E1	2.5	2
36	Encyclopedia of Complexity and Systems Science. <b>2009</b> , 6459-6476		5
35	Bit-Patterned Magnetic Recording: Nanoscale Magnetic Islands for Data Storage. <b>2009</b> , 237-274		21
34	Monte Carlo Simulations of Nano-Confined Block Copolymers. <i>Nanoscience and Technology</i> , <b>2007</b> , 495-527	2.6	5
33	Structure and Dynamics of Cylinder Forming Block Copolymers in Thin Films. <i>Nanoscience and Technology</i> , <b>2007</b> , 231-265	0.6	5
32	Biomaterial Functionalized Surfaces for Reducing Bacterial Adhesion and Infection. <b>2015</b> , 1-28		1
31	Patterned Biointerfaces. <b>2011</b> , 181-201		5
30	3D printed spherical environmental chamber for neutron reflectometry and grazing-incidence small-angle neutron scattering experiments. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 113903	1.7	8

- 29 De Gruyter. **2009**, 2009, 485-490 7
- 28 ??????????????????????. *Acta Polymerica Sinica*, **2009**, 009, 298-308 2
- 27 DESIGNING NANO-STRUCTURES OF BLOCK COPOLYMERS VIA COMPUTER SIMULATION. *Acta Polymerica Sinica*, **2011**, 011, 973-984 1
- 26 Pattern formation mechanisms in sphere-forming diblock copolymer thin films. *Papers in Physics*, **2018**, 10, 2
- 25 Au/Titania Composite Nanoparticle Arrays with Controlled Size and Spacing by Organic-Inorganic Nanohybridization in Thin Film Block Copolymer Templates. *Bulletin of the Korean Chemical Society*, **2007**, 28, 1015-1020 1.2 17
- 24 Synthesis of Ni nanowires via a hydrazine reduction route in aqueous ethanol solutions assisted by external magnetic fields. **2009**, 1, 49 6
- 23 The Future of Micro- and Nanomanufacturing. **2005**, 367-387
- 22 Trends in Magnetic Recording Media. *Springer Series in Materials Science*, **2008**, 129-160 0.9
- 21 2D Nanodot and Nanowires Arrays of Titania and Silica with Tunable Morphologies via Self-Assembled Block Copolymers and Sol-gel Chemistry. *Journal of the Korean Chemical Society*, **2008**, 52, 387-393
- 20 Diblock Copolymer Micelle Nanolithography: Characteristics and Applications. 291
- 19 Self-Assembly and Morphology Diagrams for Solution and Bulk Materials: Experimental Aspects. 1387-1430 3
- 18 Deterministic Amorphous Metamaterials and Their Optical Far-Field Response. *Nano-optics and Nanophotonics*, **2013**, 143-167 0
- 17 RECENT DEVELOPMENTS IN LIQUID CRYSTALLINE AZO BLOCK COPOLYMERS:SELF-ASSEMBLY AND PHOTORESPONSIVE PROPERTIES. *Acta Polymerica Sinica*, **2013**, 013, 962-970
- 16 Interfacial Self-Assembly Processes. **2017**, 193-205
- 15 Encyclopedia of Complexity and Systems Science. **2017**, 1-21
- 14 DNA-Based Materials as Chemical Reactors for Synthesis of Metal Nanoparticles1, "IEEE-**2017**, 21-32 0.1
- 13 Nanowires in Electronics Packaging. **2018**, 677-700
- 12 Patterns and Interfaces in Dissipative Dynamics. **2020**, 85-105



11 Conducting Polymer Nanostructures. **2008**, 88-157

10 Self-assembled block copolymer structures studied by transmission electron microtomography. **2008**, 751-752

9 Use of cubic structure with primitive nanochannels for fabrication of free standing 3D nanowire network of Pt with Pm3m symmetry.. *Nanotechnology*, **2022**, 3-4

8 A bioinspired, electroactive colorable and additive manufactured photonic artificial muscle.. *Soft Matter*, **2022**, 3.6 2

7 Comparison of interaction patterns of a triblock copolymer micelle with zwitterionic vs. cationic surfactant: An excited-state proton transfer dynamics investigation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 640, 128327 5.1 0

6 Tunable-Size Magnetite Nanoparticles in Aqueous Polyol Media. *SSRN Electronic Journal*, 1

5 Predicting mixing free energy using mutual ghosting. 0

4 Shock melting of lamellae-forming block copolymers. **2022**, 106, 0

3 Solute dynamics in a block copolymer: effect of additives and temperature. 0

2 Emergence of layered nanoscale mesh networks through intrinsic molecular confinement self-assembly. 1

1 Non-Bulk Morphologies of Extremely Thin Block Copolymer Films Cast on Topographically Defined Substrates Featuring Deep Trenches: The Importance of Lateral Confinement. **2023**, 15, 1035 0