

Joona Bang

List of Publications by Year in descending order

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145
papers

6,365
citations

100601

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docs citations

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times ranked

8097
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Amphiphilic Bottlebrush Polymeric Binders for High-Mass-Loading Cathodes in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 33 |
| 2 | From macromonomers to bottlebrush copolymers with sequence control: synthesis, properties, and applications. <i>Polymer Chemistry</i> , 2022, 13, 2224-2261. | 1.9 | 14 |
| 3 | Synthesis and Self-Assembly of Poly(vinylpyridine)-Containing Brush Block Copolymers: Combined Synthesis of Grafting-Through and Grafting-to Approaches. <i>Macromolecules</i> , 2022, 55, 1590-1599. | 2.2 | 4 |
| 4 | Novel wet-free interfacial affinity modulation of non-polar polymers for imparting efficient heat transfer capability to incompatible polypropylene/graphite nanoplatelet composite. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 107, 346-353. | 2.9 | 1 |
| 5 | Optimizing Chain Topology of Bottle Brush Copolymer for Promoting the Disorder-to-Order Transition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5374. | 1.8 | 0 |
| 6 | Loop and Bridge Conformations of ABA Triblock Comb Copolymers: A Conformational Assessment for Molecular Composites. <i>Polymers</i> , 2022, 14, 2301. | 2.0 | 1 |
| 7 | Molecular Weight Dependent Morphological Transitions of Bottlebrush Block Copolymer Particles: Experiments and Simulations. <i>ACS Nano</i> , 2021, 15, 5513-5522. | 7.3 | 24 |
| 8 | Bottlebrush Copolymer as Surface Neutralizer for Vertical Alignment of Block Copolymer Nanodomains in Thin Films. <i>ACS Macro Letters</i> , 2021, 10, 346-353. | 2.3 | 16 |
| 9 | Ligand-Assisted Direct Photolithography of Perovskite Nanocrystals Encapsulated with Multifunctional Polymer Ligands for Stable, Full-Colored, High-Resolution Displays. <i>Nano Letters</i> , 2021, 21, 2288-2295. | 4.5 | 57 |
| 10 | Janus Graphene Oxide Sheets with Fe ₃ O ₄ Nanoparticles and Polydopamine as Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14786-14795. | 4.0 | 38 |
| 11 | Shear-Rolling Process for Unidirectionally and Perpendicularly Oriented Sub-10-nm Block Copolymer Patterns on the 4 in Scale. <i>ACS Nano</i> , 2021, 15, 8549-8558. | 7.3 | 16 |
| 12 | Sustained complementary resistive switching capability deployed by structure-modulated electric field confinement of core-shell nanowires in a simple polymer composite. <i>Applied Materials Today</i> , 2021, 23, 101038. | 2.3 | 3 |
| 13 | Self-Assembly of 2D Gold Nanoparticle Superlattice in a Polymer Vesicle Layer Driven by Hydrophobic Interaction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6736-6743. | 2.1 | 4 |
| 14 | Reactive Core-Shell Bottlebrush Copolymer as Highly Effective Additive for Epoxy Toughening. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1626-1633. | 2.0 | 5 |
| 15 | A Field Guide to Azopolymeric Optical Fourier Surfaces and Augmented Reality. <i>Advanced Functional Materials</i> , 2021, 31, 2104105. | 7.8 | 19 |
| 16 | Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <i>Angewandte Chemie</i> , 2021, 133, 23082. | 1.6 | 6 |
| 17 | Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22900-22907. | 7.2 | 44 |
| 18 | Effect of Silica Nanoparticles Blocked with Epoxy Groups on the Crosslinking and Surface Properties of PEG Hydrogel Films. <i>Polymers</i> , 2021, 13, 3296. | 2.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Core-Shell Copolymer as Highly Effective Additive for Epoxy Adhesives. <i>Porrime</i> , 2021, 45, 757-763. | 0.0 | 0 |
| 20 | Photoechnogenic Inflatable Nanohybrids for Upconversion-Mediated Sonotheranostics. <i>ACS Nano</i> , 2021, 15, 18394-18402. | 7.3 | 8 |
| 21 | Metal complexation-mediated stable and biocompatible nanoformulation of clinically approved near-infrared absorber for improved tumor targeting and photonic theranostics. <i>Nano Convergence</i> , 2021, 8, 36. | 6.3 | 7 |
| 22 | Highly sustainable polyphenylene sulfide membrane of tailored porous architecture for high-performance lithium-ion battery applications. <i>Materials Today Advances</i> , 2021, 12, 100186. | 2.5 | 5 |
| 23 | Position-Dependent Diffusion Dynamics of Entangled Polymer Melts Nanoconfined by Parallel Immiscible Polymer Films. <i>ACS Macro Letters</i> , 2020, 9, 1483-1488. | 2.3 | 4 |
| 24 | Direct Photolithographic Patterning of Colloidal Quantum Dots Enabled by UV-Crosslinkable and Hole-Transporting Polymer Ligands. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42153-42160. | 4.0 | 38 |
| 25 | High-Voltage-Driven Surface Structuring and Electrochemical Stabilization of Ni-Rich Layered Cathode Materials for Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000521. | 10.2 | 90 |
| 26 | Chemically resistant and thermally stable quantum dots prepared by shell encapsulation with cross-linkable block copolymer ligands. <i>NPG Asia Materials</i> , 2020, 12, . | 3.8 | 36 |
| 27 | High-Fidelity, Sub-5 nm Patterns from High-Block Copolymer Films with Vapor-Deposited Ultrathin, Cross-Linked Surface Modification Layers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900514. | 2.0 | 7 |
| 28 | Click-functionalized inverse-opal structured membranes for organocatalytic reactions. <i>Separation and Purification Technology</i> , 2020, 240, 116621. | 3.9 | 6 |
| 29 | Enhanced Dynamics of Confined Polymers near the Immiscible Polymer-Polymer Interface: Neutron Reflectivity Studies. <i>ACS Macro Letters</i> , 2020, 9, 210-215. | 2.3 | 17 |
| 30 | Adhesion Behavior of Catechol-Incorporated Silicone Elastomer on Metal Surface. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2444-2451. | 2.0 | 17 |
| 31 | Effect of Photo-initiators on the Crosslinking Behavior of Organic Thin Films and Their Applicability to Flexible Display Encapsulation Layer. <i>Porrime</i> , 2020, 44, 841-847. | 0.0 | 2 |
| 32 | Self-Assembly of Temperature Sensitive Unilamellar Vesicles by a Blend of Block Copolymers in Aqueous Solution. <i>Polymers</i> , 2019, 11, 63. | 2.0 | 7 |
| 33 | Highly improved interfacial affinity in carbon fiber-reinforced polymer composites via oxygen and nitrogen plasma-assisted mechanochemistry. <i>Composites Part B: Engineering</i> , 2019, 165, 725-732. | 5.9 | 54 |
| 34 | The effect of chain architecture on the phase behavior of A ₄ B ₄ miktoarm block copolymers. <i>Polymer Chemistry</i> , 2019, 10, 3079-3087. | 1.9 | 11 |
| 35 | Dewetting of Thin Polymer Films on Wrinkled Graphene Oxide Monolayers. <i>Langmuir</i> , 2019, 35, 5549-5556. | 1.6 | 0 |
| 36 | Self-assembly of gold nanoparticles in a block copolymer aggregate template driven by hydrophobic interactions. <i>Polymer Chemistry</i> , 2019, 10, 6269-6277. | 1.9 | 11 |

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|----|---|------|-----------|
| 37 | Influence of residual impurities on ring-opening metathesis polymerization after copper(I)-catalyzed alkyne-azide cycloaddition click reaction. <i>Journal of Polymer Science Part A</i> , 2019, 57, 726-737. | 2.5 | 13 |
| 38 | Thermal Approaches to Perpendicular Block Copolymer Microdomains in Thin Films: A Review and Appraisal. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800728. | 2.0 | 30 |
| 39 | Spontaneous hybrids of graphene and carbon nanotube arrays at the liquid-gas interface for Li-ion battery anodes. <i>Chemical Communications</i> , 2018, 54, 5229-5232. | 2.2 | 16 |
| 40 | Interactions between brush-grafted nanoparticles within chemically identical homopolymers: the effect of brush polydispersity. <i>Soft Matter</i> , 2018, 14, 1026-1042. | 1.2 | 13 |
| 41 | Star polymer-assembled thin film composite membranes with high separation performance and low fouling. <i>Journal of Membrane Science</i> , 2018, 555, 369-378. | 4.1 | 37 |
| 42 | Phase behaviors of a mixture of two kinds of Pluronic triblock copolymers in aqueous solution. <i>Physica B: Condensed Matter</i> , 2018, 551, 184-190. | 1.3 | 6 |
| 43 | Unexpected Phase Behavior of Pluronic Polymer-Organic Derivative Mixtures Depending on Temperature in Aqueous Solution. <i>Micromachines</i> , 2018, 9, 505. | 1.4 | 3 |
| 44 | Balancing antimicrobial performance with hemocompatibility in amphiphilic homopolymers. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2391-2396. | 2.5 | 7 |
| 45 | High-Performance and Uniform 1 cm ² Polymer Solar Cells with D ₁ -A ₂ -A ₂ -Type Random Terpolymers. <i>Advanced Energy Materials</i> , 2018, 8, 1701405. | 10.2 | 39 |
| 46 | Addressing the mid-point of polymer chains for multiple functionalization purposes through sequential thiol-epoxy click and esterification reactions. <i>RSC Advances</i> , 2017, 7, 19439-19447. | 1.7 | 9 |
| 47 | An activatable anticancer polymer-drug conjugate based on the self-immolative azobenzene motif. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4574-4578. | 2.9 | 24 |
| 48 | Sequential coating of nanopores with charged polymers: A general approach for controlling pore properties of self-assembled block copolymer membranes. <i>Macromolecular Research</i> , 2017, 25, 1091-1099. | 1.0 | 5 |
| 49 | Scalable ambient synthesis of water-soluble poly(β -hydroxythioether)s. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3381-3386. | 2.5 | 17 |
| 50 | Domain swelling in ARB-type triblock copolymers via self-adjusting effective dispersity. <i>Soft Matter</i> , 2017, 13, 5527-5534. | 1.2 | 3 |
| 51 | Molecular Tailoring of Poly(styrene- <i>b</i> -methyl methacrylate) Block Copolymer Toward Perpendicularly Oriented Nanodomains with Sub-10 nm Features. <i>ACS Macro Letters</i> , 2017, 6, 1386-1391. | 2.3 | 37 |
| 52 | Architectural Effects of Organic Nanoparticles on Block Copolymer Orientation. <i>Macromolecules</i> , 2017, 50, 5025-5032. | 2.2 | 20 |
| 53 | Nanoparticles as structure-directing agents for controlling the orientation of block copolymer microdomain in thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 118-127. | 2.4 | 10 |
| 54 | Tailoring block copolymer and polymer blend morphology using nanoparticle surfactants. <i>Journal of Polymer Science Part A</i> , 2016, 54, 228-237. | 2.5 | 22 |

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|----|--|-----|-----------|
| 55 | Reduced Domain Size and Interfacial Width in Fast Ordering Nanofilled Block Copolymer Films by Direct Immersion Annealing. <i>Macromolecules</i> , 2016, 49, 8563-8571. | 2.2 | 26 |
| 56 | Controlling the magnetic properties of polymer-iron oxide nanoparticle composite thin films via spatial particle orientation. <i>RSC Advances</i> , 2016, 6, 55842-55847. | 1.7 | 9 |
| 57 | Optimized Solvent Vapor Annealing for Long-Range Perpendicular Lamellae in PS- <i>b</i> -PMMA Films. <i>Macromolecules</i> , 2016, 49, 1722-1730. | 2.2 | 35 |
| 58 | Three-Dimensional Multilayered Nanostructures from Crosslinkable Block Copolymers. <i>ACS Macro Letters</i> , 2016, 5, 287-291. | 2.3 | 14 |
| 59 | Controlling the microdomain orientation in block copolymer thin films via cross-linkable random copolymer neutral layer. <i>Polymer Journal</i> , 2016, 48, 333-340. | 1.3 | 10 |
| 60 | Fluorogenic nanoreactor assembly with boosted sensing kinetics for timely imaging of cellular hydrogen peroxide. <i>Chemical Communications</i> , 2016, 52, 1131-1134. | 2.2 | 5 |
| 61 | Humidity-dependent compression-induced glass transition of the air-water interfacial Langmuir films of poly(<i>d</i> -, <i>l</i> -lactic acid-ran-glycolic acid) (PLGA). <i>Soft Matter</i> , 2015, 11, 5666-5677. | 1.2 | 20 |
| 62 | Single Step Process for Self-Assembled Block Copolymer Patterns via in Situ Annealing during Spin-Casting. <i>ACS Macro Letters</i> , 2015, 4, 656-660. | 2.3 | 12 |
| 63 | Tailor-Made Polyamide Membranes for Water Desalination. <i>ACS Nano</i> , 2015, 9, 345-355. | 7.3 | 109 |
| 64 | Perpendicularly Oriented Block Copolymer Thin Films Induced by Neutral Star Copolymer Nanoparticles. <i>ACS Macro Letters</i> , 2015, 4, 133-137. | 2.3 | 20 |
| 65 | Directed molecular assembly into a biocompatible photosensitizing nanocomplex for locoregional photodynamic therapy. <i>Journal of Controlled Release</i> , 2015, 209, 12-19. | 4.8 | 24 |
| 66 | Nanoscale Phase Behavior of Mixed Polymer Ligands on a Gold Nanoparticle Surface. <i>ACS Macro Letters</i> , 2015, 4, 417-421. | 2.3 | 21 |
| 67 | The polymeric upper bound for N ₂ /NF ₃ separation and beyond; ZIF-8 containing mixed matrix membranes. <i>Journal of Membrane Science</i> , 2015, 486, 29-39. | 4.1 | 16 |
| 68 | Combined epitaxial self-assembly of block copolymer lamellae on a hexagonal pre-pattern within microgrooves. <i>Soft Matter</i> , 2015, 11, 4242-4250. | 1.2 | 9 |
| 69 | Layer-by-Layer Assembly of Inorganic Nanosheets and Polyelectrolytes for Reverse Osmosis Composite Membranes. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 180-186. | 0.3 | 7 |
| 70 | Self-assembly of an interacting binary blend of diblock copolymers in thin films: a potential route to porous materials with reactive nanochannel chemistry. <i>Soft Matter</i> , 2014, 10, 5755. | 1.2 | 19 |
| 71 | 3-Dimensionally disordered mesoporous silica (DMS)-containing mixed matrix membranes for CO ₂ and non-CO ₂ greenhouse gas separations. <i>Separation and Purification Technology</i> , 2014, 136, 286-295. | 3.9 | 37 |
| 72 | Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822. | 7.3 | 132 |

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|----|--|------|-----------|
| 73 | Substrate-Independent Lamellar Orientation in High-Molecular-Weight Polystyrene- <i>b</i> -poly(methyl methacrylate) Films: Neutral Solvent Vapor and Thermal Annealing Effect. <i>Macromolecules</i> , 2014, 47, 3969-3977. | 2.2 | 32 |
| 74 | Molecular Layer-by-Layer Assembled Thin-Film Composite Membranes for Water Desalination. <i>Advanced Materials</i> , 2013, 25, 4778-4782. | 11.1 | 258 |
| 75 | Directed Assembly of High Molecular Weight Block Copolymers: Highly Ordered Line Patterns of Perpendicularly Oriented Lamellae with Large Periods. <i>ACS Nano</i> , 2013, 7, 1952-1960. | 7.3 | 113 |
| 76 | Layer-by-Layer Assembly of Graphene Oxide Nanosheets on Polyamide Membranes for Durable Reverse-Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12510-12519. | 4.0 | 471 |
| 77 | Efficient Surface Neutralization and Enhanced Substrate Adhesion through Ketene Mediated Crosslinking and Functionalization. <i>Advanced Functional Materials</i> , 2013, 23, 1597-1602. | 7.8 | 33 |
| 78 | Nanoporous Bicontinuous Structures via Addition of Thermally-Stable Amphiphilic Nanoparticles within Block Copolymer Templates. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5659-5666. | 4.0 | 19 |
| 79 | Design and fabrication of thermally stable nanoparticles for well-defined nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 494-507. | 2.4 | 11 |
| 80 | Strongly Phase-Segregating Block Copolymers with Sub-20 nm Features. <i>ACS Macro Letters</i> , 2013, 2, 677-682. | 2.3 | 25 |
| 81 | Supramolecular mimics of phase separating covalent diblock copolymers. <i>Polymer Chemistry</i> , 2012, 3, 2050. | 1.9 | 30 |
| 82 | Nanopatterning Biomolecules by Block Copolymer Self-Assembly. <i>ACS Macro Letters</i> , 2012, 1, 758-763. | 2.3 | 33 |
| 83 | Three-Dimensional Multilayered Nanostructures with Controlled Orientation of Microdomains from Cross-Linkable Block Copolymers. <i>ACS Nano</i> , 2011, 5, 6164-6173. | 7.3 | 56 |
| 84 | Creating Opal-Templated Continuous Conducting Polymer Films with Ultralow Percolation Thresholds Using Thermally Stable Nanoparticles. <i>ACS Nano</i> , 2011, 5, 9017-9027. | 7.3 | 30 |
| 85 | Size-Controlled Polymer-Coated Nanoparticles as Efficient Compatibilizers for Polymer Blends. <i>Macromolecules</i> , 2011, 44, 9852-9862. | 2.2 | 66 |
| 86 | Controlling the Orientation of Block Copolymer Thin Films using Thermally-Stable Gold Nanoparticles with Tuned Surface Chemistry. <i>Macromolecules</i> , 2011, 44, 9356-9365. | 2.2 | 57 |
| 87 | A Strategy to Decorate the Surface of NPs and Control their Locations within Block Copolymer Templates. , 2011, , . | | 1 |
| 88 | Tuning photoluminescence of organic rubrene nanoparticles through a hydrothermal process. <i>Nanoscale Research Letters</i> , 2011, 6, 405. | 3.1 | 12 |
| 89 | Click-synthesis of thermally stable Au nanoparticles with highly grafted polymer shell and control of their behavior in polymer matrix. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3464-3474. | 2.5 | 45 |
| 90 | Evolution of Light Absorption and Emission Characteristics of Organic Perylene Nanoparticles through Hydrothermal Process: Application to Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 3056-3063. | 7.8 | 5 |

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|-----|--|------|-----------|
| 91 | Optical characterizations of GaN nanorods fabricated by natural lithography. Korean Journal of Chemical Engineering, 2010, 27, 693-696. | 1.2 | 1 |
| 92 | Highly Flexible Electronic and Optical Films Composed of Hydrophobic and Hydrophilic Multilayers. Macromolecular Chemistry and Physics, 2010, 211, 1188-1195. | 1.1 | 2 |
| 93 | Surface texturing of GaAs using a nanosphere lithography technique for solar cell applications. Thin Solid Films, 2010, 518, 6583-6586. | 0.8 | 11 |
| 94 | Enhancement of the Light-Extraction Efficiency of GaN-Based Light Emitting Diodes Using Graded-Refractive-Index Layer by SiO ₂ Nanosphere Lithography. Journal of the Electrochemical Society, 2010, 157, H449. | 1.3 | 14 |
| 95 | Sulfonated poly(arylene ether sulfone) RO membranes for high water flux and chlorine resistance. Desalination and Water Treatment, 2010, 15, 205-213. | 1.0 | 3 |
| 96 | Desalination membranes from pH-controlled and thermally-crosslinked layer-by-layer assembled multilayers. Journal of Materials Chemistry, 2010, 20, 2085. | 6.7 | 64 |
| 97 | Fabrication of Water-Soluble Nanocrystals using Amphiphilic Block Copolymer Patterned Surfaces. Crystal Growth and Design, 2010, 10, 5187-5192. | 1.4 | 8 |
| 98 | Carbon nanotube-based nanocomposite desalination membranes from layer-by-layer assembly. Desalination and Water Treatment, 2010, 15, 76-83. | 1.0 | 21 |
| 99 | Enhancement of Chlorine Resistance in Carbon Nanotube Based Nanocomposite Reverse Osmosis Membranes. Desalination and Water Treatment, 2010, 15, 198-204. | 1.0 | 67 |
| 100 | Facile Synthesis of Thermally Stable Core-Shell Gold Nanoparticles via Photo-Cross-Linkable Polymeric Ligands. Macromolecules, 2010, 43, 3570-3575. | 2.2 | 71 |
| 101 | Sulfonated poly(arylene ether sulfone) thin-film composite reverse osmosis membrane containing SiO ₂ nano-particles. Desalination and Water Treatment, 2010, 15, 69-75. | 1.0 | 7 |
| 102 | Block Copolymer Nanolithography: Translation of Molecular Level Control to Nanoscale Patterns. Advanced Materials, 2009, 21, 4769-4792. | 11.1 | 637 |
| 103 | Enhanced light emission of nano-patterned GaN via block copolymer thin films. Korean Journal of Chemical Engineering, 2009, 26, 277-280. | 1.2 | 3 |
| 104 | Electrical characterizations of Neutron-irradiated SiC Schottky diodes. Korean Journal of Chemical Engineering, 2009, 26, 285-287. | 1.2 | 8 |
| 105 | Enhancement of light extraction efficiency of ultraviolet light emitting diodes by patterning of SiO ₂ nanosphere arrays. Thin Solid Films, 2009, 517, 2742-2744. | 0.8 | 26 |
| 106 | Fabrication of GaN nanorods by inductively coupled plasma etching via SiO ₂ nanosphere lithography. Thin Solid Films, 2009, 517, 3859-3861. | 0.8 | 34 |
| 107 | Tailoring Core-Shell Polymer-Coated Nanoparticles as Block Copolymer Surfactants. Macromolecules, 2009, 42, 6193-6201. | 2.2 | 58 |
| 108 | Free-Standing Nanocomposite Multilayers with Various Length Scales, Adjustable Internal Structures, and Functionalities. Journal of the American Chemical Society, 2009, 131, 2579-2587. | 6.6 | 77 |

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|-----|---|------|-----------|
| 109 | Modulation of Protein-Surface Interactions on Nanopatterned Polymer Films. <i>Biomacromolecules</i> , 2009, 10, 1061-1066. | 2.6 | 33 |
| 110 | GaN-Based Light-Emitting Diode With Three-Dimensional Silver Reflectors. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 700-702. | 1.3 | 16 |
| 111 | Free-standing film electronics using photo-crosslinking layer-by-layer assembly. <i>Journal of Materials Chemistry</i> , 2009, 19, 4488. | 6.7 | 22 |
| 112 | Co/Pt Nanodot Arrays Fabricated via Pulsed Laser Deposition Using the Phase-Separated Diblock Copolymer Film as a Template. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2976-2980. | 0.9 | 2 |
| 113 | Inductively coupled plasma etching of nano-patterned sapphire for flip-chip GaN light emitting diode applications. <i>Thin Solid Films</i> , 2008, 516, 7744-7747. | 0.8 | 20 |
| 114 | On the selection of FCC and BCC lattices in poly(styrene-b-isoprene) copolymer micelles. <i>Macromolecular Research</i> , 2008, 16, 51-56. | 1.0 | 14 |
| 115 | A high purity approach to poly(3-hexylthiophene) diblock copolymers. <i>Journal of Polymer Science Part A</i> , 2008, 46, 8200-8205. | 2.5 | 32 |
| 116 | Highly ordered nanoporous thin films by blending of PSt- <i>b</i> -PMMA block copolymers and PEO additives as structure directing agents. <i>Journal of Polymer Science Part A</i> , 2008, 46, 8041-8048. | 2.5 | 13 |
| 117 | Melt-state miscibility of poly(ethylene-co-1-octene) and linear polyethylene. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2584-2587. | 1.3 | 8 |
| 118 | Self-assembly of Protein Nanoarrays on Block Copolymer Templates. <i>Advanced Functional Materials</i> , 2008, 18, 3148-3157. | 7.8 | 58 |
| 119 | Integrated Catalytic Activity of Patterned Multilayer Films Based on pH-Induced Electrostatic Properties of Enzymes. <i>Advanced Materials</i> , 2008, 20, 1843-1848. | 11.1 | 22 |
| 120 | Square Packing and Structural Arrangement of ABC Triblock Copolymer Spheres in Thin Films. <i>Macromolecules</i> , 2008, 41, 4328-4339. | 2.2 | 79 |
| 121 | Size control and registration of nano-structured thin films by cross-linkable units. <i>Soft Matter</i> , 2008, 4, 475. | 1.2 | 34 |
| 122 | Distribution of Nanoparticles in Lamellar Domains of Block Copolymers. <i>Macromolecules</i> , 2007, 40, 3361-3365. | 2.2 | 145 |
| 123 | Controlled Ordering of Block Copolymer Thin Films by the Addition of Hydrophilic Nanoparticles. <i>Macromolecules</i> , 2007, 40, 8119-8124. | 2.2 | 73 |
| 124 | Creating Surfactant Nanoparticles for Block Copolymer Composites through Surface Chemistry. <i>Langmuir</i> , 2007, 23, 12693-12703. | 1.6 | 182 |
| 125 | Effect of Humidity on the Ordering of PEO-Based Copolymer Thin Films. <i>Macromolecules</i> , 2007, 40, 7019-7025. | 2.2 | 106 |
| 126 | Importance of End-Group Structure in Controlling the Interfacial Activity of Polymer-Coated Nanoparticles. <i>Macromolecules</i> , 2007, 40, 1796-1798. | 2.2 | 58 |

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|-----|--|------|-----------|
| 127 | Facile Routes to Patterned Surface Neutralization Layers for Block Copolymer Lithography. <i>Advanced Materials</i> , 2007, 19, 4552-4557. | 11.1 | 149 |
| 128 | Simple fabrication of nanoporous films on ZnO for enhanced light emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3417-3422. | 0.8 | 0 |
| 129 | Defect-Free Nanoporous Thin Films from ABC Triblock Copolymers. <i>Journal of the American Chemical Society</i> , 2006, 128, 7622-7629. | 6.6 | 292 |
| 130 | Effect of Areal Chain Density on the Location of Polymer-Modified Gold Nanoparticles in a Block Copolymer Template. <i>Macromolecules</i> , 2006, 39, 4108-4114. | 2.2 | 293 |
| 131 | Sphere, Cylinder, and Vesicle Nanoaggregates in Poly(styrene- <i>b</i> -isoprene) Diblock Copolymer Solutions. <i>Macromolecules</i> , 2006, 39, 1199-1208. | 2.2 | 211 |
| 132 | Kinetics of disorder-to-fcc phase transition via an intermediate bcc state. <i>Physical Review E</i> , 2006, 73, 061803. | 0.8 | 18 |
| 133 | Order-Disorder Transition and Critical Micelle Temperature in Concentrated Block Copolymer Solutions. <i>Macromolecules</i> , 2005, 38, 2449-2459. | 2.2 | 40 |
| 134 | Introductory Lecture : Strategies for controlling intra- and intermicellar packing in block copolymer solutions: Illustrating the flexibility of the self-assembly toolbox. <i>Faraday Discussions</i> , 2005, 128, 1. | 1.6 | 101 |
| 135 | Interplay between Cubic and Hexagonal Phases in Block Copolymer Solutions. <i>Langmuir</i> , 2005, 21, 1403-1411. | 1.6 | 19 |
| 136 | Cryogenic Transmission Electron Microscopy Imaging of Vesicles Formed by a Polystyrene-Polyisoprene Diblock Copolymer. <i>Macromolecules</i> , 2005, 38, 6779-6781. | 2.2 | 42 |
| 137 | Origin of the Thermoreversible fcc-bcc Transition in Block Copolymer Solutions. <i>Physical Review Letters</i> , 2004, 92, 145501. | 2.9 | 86 |
| 138 | Long-Lived Metastable bcc Phase during Ordering of Micelles. <i>Physical Review Letters</i> , 2004, 93, 245701. | 2.9 | 31 |
| 139 | Epitaxial Transitions among FCC, HCP, BCC, and Cylinder Phases in a Block Copolymer Solution. <i>Macromolecules</i> , 2004, 37, 9064-9075. | 2.2 | 65 |
| 140 | Temperature-dependent micellar structures in poly(styrene- <i>b</i> -isoprene) diblock copolymer solutions near the critical micelle temperature. <i>Journal of Chemical Physics</i> , 2004, 121, 11489. | 1.2 | 63 |
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