

Ulrich B Wiesner

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299
papers

23,104
citations

76
h-index

145
g-index

318
ext. papers

25,133
ext. citations

11.3
avg, IF

6.87
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 299 | Demonstration of a spaser-based nanolaser. <i>Nature</i> , 2009 , 460, 1110-2 | 50.4 | 1592 |
| 298 | Bright and stable core-shell fluorescent silica nanoparticles. <i>Nano Letters</i> , 2005 , 5, 113-7 | 11.5 | 799 |
| 297 | Fluorescent core-shell silica nanoparticles: towards "Lab on a Particle" architectures for nanobiotechnology. <i>Chemical Society Reviews</i> , 2006 , 35, 1028-42 | 58.5 | 752 |
| 296 | Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , 2015 , 6, 6142 | 17.4 | 695 |
| 295 | Organically modified aluminosilicate mesostructures from block copolymer phases. <i>Science</i> , 1997 , 278, 1795-8 | 33.3 | 581 |
| 294 | Direct access to thermally stable and highly crystalline mesoporous transition-metal oxides with uniform pores. <i>Nature Materials</i> , 2008 , 7, 222-8 | 27 | 527 |
| 293 | Plasmonic dye-sensitized solar cells using core-shell metal-insulator nanoparticles. <i>Nano Letters</i> , 2011 , 11, 438-45 | 11.5 | 515 |
| 292 | Ordered mesoporous materials from metal nanoparticle-block copolymer self-assembly. <i>Science</i> , 2008 , 320, 1748-52 | 33.3 | 508 |
| 291 | Clinical translation of an ultrasmall inorganic optical-PET imaging nanoparticle probe. <i>Science Translational Medicine</i> , 2014 , 6, 260ra149 | 17.5 | 487 |
| 290 | Multimodal silica nanoparticles are effective cancer-targeted probes in a model of human melanoma. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2768-80 | 15.9 | 485 |
| 289 | Enhancement of perovskite-based solar cells employing core-shell metal nanoparticles. <i>Nano Letters</i> , 2013 , 13, 4505-10 | 11.5 | 447 |
| 288 | Block copolymer based composition and morphology control in nanostructured hybrid materials for energy conversion and storage: solar cells, batteries, and fuel cells. <i>Chemical Society Reviews</i> , 2011 , 40, 520-35 | 58.5 | 420 |
| 287 | Fluorescent silica nanoparticles with efficient urinary excretion for nanomedicine. <i>Nano Letters</i> , 2009 , 9, 442-8 | 11.5 | 397 |
| 286 | A bicontinuous double gyroid hybrid solar cell. <i>Nano Letters</i> , 2009 , 9, 2807-12 | 11.5 | 392 |
| 285 | Mesophase structure-mechanical and ionic transport correlations in extended amphiphilic dendrons. <i>Science</i> , 2004 , 305, 1598-601 | 33.3 | 356 |
| 284 | Designed Fabrication of Silica-Based Nanostructured Particle Systems for Nanomedicine Applications. <i>Advanced Functional Materials</i> , 2008 , 18, 3745-3758 | 15.6 | 355 |
| 283 | Ultrasmall nanoparticles induce ferroptosis in nutrient-deprived cancer cells and suppress tumour growth. <i>Nature Nanotechnology</i> , 2016 , 11, 977-985 | 28.7 | 321 |

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| 282 | Crystallization kinetics of organic-inorganic trihalide perovskites and the role of the lead anion in crystal growth. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2350-8 | 16.4 | 266 |
| 281 | Core/Shell fluorescent silica nanoparticles for chemical sensing: towards single-particle laboratories. <i>Small</i> , 2006 , 2, 723-6 | 11 | 252 |
| 280 | Block copolymer self-assembly for nanophotonics. <i>Chemical Society Reviews</i> , 2015 , 44, 5076-91 | 58.5 | 248 |
| 279 | A 3D optical metamaterial made by self-assembly. <i>Advanced Materials</i> , 2012 , 24, OP23-7 | 24 | 245 |
| 278 | Thermally induced structural evolution and performance of mesoporous block copolymer-directed alumina perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 4730-9 | 16.7 | 241 |
| 277 | Highly Improved Rate Capability for a Lithium-Ion Battery Nano-Li ₄ Ti ₅ O ₁₂ Negative Electrode via Carbon-Coated Mesoporous Uniform Pores with a Simple Self-Assembly Method. <i>Advanced Functional Materials</i> , 2011 , 21, 4349-4357 | 15.6 | 241 |
| 276 | Block Copolymer/Ceramic Hybrid Materials from Organically Modified Ceramic Precursors. <i>Chemistry of Materials</i> , 2001 , 13, 3464-3486 | 9.6 | 230 |
| 275 | Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organic/Inorganic Lead Trihalide Perovskites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17171-17177 | 3.8 | 214 |
| 274 | Hierarchical porous polymer scaffolds from block copolymers. <i>Science</i> , 2013 , 341, 530-4 | 33.3 | 214 |
| 273 | Silica Nanoparticle Architecture Determines Radiative Properties of Encapsulated Fluorophores. <i>Chemistry of Materials</i> , 2008 , 20, 2677-2684 | 9.6 | 205 |
| 272 | Tuning structure and properties of graded triblock terpolymer-based mesoporous and hybrid films. <i>Nano Letters</i> , 2011 , 11, 2892-900 | 11.5 | 192 |
| 271 | Study of the interlayer expansion mechanism and thermal/mechanical properties of surface-initiated epoxy nanocomposites. <i>Polymer</i> , 2002 , 43, 4895-4904 | 3.9 | 177 |
| 270 | Nanoparticle-tuned assembly and disassembly of mesostructured silica hybrids. <i>Nature Materials</i> , 2007 , 6, 156-61 | 27 | 173 |
| 269 | Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5038-5046 | 15.6 | 167 |
| 268 | Ultrasmall sub-10 nm near-infrared fluorescent mesoporous silica nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13180-3 | 16.4 | 166 |
| 267 | Intracellular delivery of core-shell fluorescent silica nanoparticles. <i>Biomaterials</i> , 2008 , 29, 1526-32 | 15.6 | 160 |
| 266 | Synthesis, Characterization, and Electrocatalytic Activity of PtBi and PtPb Nanoparticles Prepared by Borohydride Reduction in Methanol. <i>Chemistry of Materials</i> , 2006 , 18, 3365-3372 | 9.6 | 160 |
| 265 | Nanotechnology Strategies To Advance Outcomes in Clinical Cancer Care. <i>ACS Nano</i> , 2018 , 12, 24-43 | 16.7 | 142 |

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| 264 | Structure, Mobility, and Interface Characterization of Self-Organized Organic-Inorganic Hybrid Materials by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5727-5736 | 16.4 | 141 |
| 263 | Clinically-translated silica nanoparticles as dual-modality cancer-targeted probes for image-guided surgery and interventions. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 74-86 | 3.7 | 133 |
| 262 | Multicompart ment mesoporous silica nanoparticles with branched shapes: an epitaxial growth mechanism. <i>Science</i> , 2013 , 340, 337-41 | 33.3 | 132 |
| 261 | Multinuclear solid-state-NMR studies of hybrid organic-inorganic materials. <i>Advanced Materials</i> , 1997 , 9, 814-817 | 24 | 131 |
| 260 | Generalized route to metal nanoparticles with liquid behavior. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12074-5 | 16.4 | 131 |
| 259 | Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd-Doping of Mesoporous TiO ₂ . <i>Advanced Energy Materials</i> , 2016 , 6, 1501868 | 21.8 | 130 |
| 258 | Poly(ethylene oxide-b-isoprene) Diblock Copolymer Phase Diagram. <i>Macromolecules</i> , 2001 , 34, 2947-2957 | 5.5 | 127 |
| 257 | Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO ₂ Synthesis. <i>Advanced Functional Materials</i> , 2010 , 20, 1787-1796 | 15.6 | 125 |
| 256 | Self-cleaning antireflective optical coatings. <i>Nano Letters</i> , 2013 , 13, 5329-35 | 11.5 | 124 |
| 255 | One-pot synthesis of platinum-based nanoparticles incorporated into mesoporous niobium oxide-carbon composites for fuel cell electrodes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9389-95 | 16.4 | 113 |
| 254 | POROUS MATERIALS. Transient laser heating induced hierarchical porous structures from block copolymer-directed self-assembly. <i>Science</i> , 2015 , 349, 54-8 | 33.3 | 112 |
| 253 | The plumber's nightmare: a new morphology in block copolymer-ceramic nanocomposites and mesoporous aluminosilicates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13084-93 | 16.4 | 110 |
| 252 | Block copolymer-nanoparticle hybrid self-assembly. <i>Progress in Polymer Science</i> , 2015 , 40, 3-32 | 29.6 | 107 |
| 251 | Highly aminated mesoporous silica nanoparticles with cubic pore structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 172-5 | 16.4 | 105 |
| 250 | Lamellar diblock copolymers under large amplitude oscillatory shear flow: Order and dynamics. <i>Macromolecular Chemistry and Physics</i> , 1997 , 198, 3319-3352 | 2.6 | 105 |
| 249 | Block copolymer directed synthesis of mesoporous TiO ₂ for dye-sensitized solar cells. <i>Soft Matter</i> , 2009 , 5, 134-139 | 3.6 | 104 |
| 248 | Nano-objects with Controlled Shape, Size, and Composition from Block Copolymer Mesophases. <i>Advanced Materials</i> , 1999 , 11, 141-146 | 24 | 104 |
| 247 | Microphase separation in poly(isoprene-b-ethylene oxide) diblock copolymer melts. I. Phase state and kinetics of the order-to-order transitions. <i>Journal of Chemical Physics</i> , 1999 , 110, 652-663 | 3.9 | 102 |

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| 246 | Three-dimensionally isotropic negative refractive index materials from block copolymer self-assembled chiral gyroid networks. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11985-9 | 16.4 | 99 |
| 245 | Functional tomographic fluorescence imaging of pH microenvironments in microbial biofilms by use of silica nanoparticle sensors. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 7426-35 | 4.8 | 99 |
| 244 | Tailored Living Block Copolymerization: Multiblock Poly(cyclohexene carbonate)s with Sequence Control. <i>Macromolecules</i> , 2011 , 44, 1110-1113 | 5.5 | 96 |
| 243 | A silica sol-gel design strategy for nanostructured metallic materials. <i>Nature Materials</i> , 2012 , 11, 460-7 | 27 | 95 |
| 242 | Additive-Driven Phase-Selective Chemistry in Block Copolymer Thin Films: The Convergence of TopDown and BottomUp Approaches. <i>Advanced Materials</i> , 2004 , 16, 953-957 | 24 | 93 |
| 241 | Controlled degradation of epoxy networks: analysis of crosslink density and glass transition temperature changes in thermally reworkable thermosets. <i>Polymer</i> , 2004 , 45, 1939-1950 | 3.9 | 93 |
| 240 | Block copolymer self-assembly-directed single-crystal homo- and heteroepitaxial nanostructures. <i>Science</i> , 2010 , 330, 214-9 | 33.3 | 92 |
| 239 | Core-shell silica nanoparticles as fluorescent labels for nanomedicine. <i>Journal of Biomedical Optics</i> , 2007 , 12, 064007 | 3.5 | 92 |
| 238 | An infrared spectroscopic study of photo-induced reorientation in dye containing liquid-crystalline polymers. <i>Liquid Crystals</i> , 1992 , 11, 251-267 | 2.3 | 92 |
| 237 | Ultrasmall targeted nanoparticles with engineered antibody fragments for imaging detection of HER2-overexpressing breast cancer. <i>Nature Communications</i> , 2018 , 9, 4141 | 17.4 | 90 |
| 236 | Designing block copolymer architectures for targeted membrane performance. <i>Polymer</i> , 2014 , 55, 347-353 | 35.3 | 89 |
| 235 | Hierarchically Porous Materials from Block Copolymers. <i>Chemistry of Materials</i> , 2014 , 26, 339-347 | 9.6 | 88 |
| 234 | Solution Small-Angle X-ray Scattering as a Screening and Predictive Tool in the Fabrication of Asymmetric Block Copolymer Membranes. <i>ACS Macro Letters</i> , 2012 , 1, 614-617 | 6.6 | 87 |
| 233 | Control of Ultrasmall Sub-10 nm Ligand-Functionalized Fluorescent CoreShell Silica Nanoparticle Growth in Water. <i>Chemistry of Materials</i> , 2015 , 27, 4119-4133 | 9.6 | 86 |
| 232 | One-pot synthesis of intermetallic electrocatalysts in ordered, large-pore mesoporous carbon/silica toward formic acid oxidation. <i>ACS Nano</i> , 2012 , 6, 6870-81 | 16.7 | 85 |
| 231 | Ordered mesoporous ceramics stable up to 1500 degrees C from diblock copolymer mesophases. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14708-9 | 16.4 | 85 |
| 230 | Frequency Dependence of Orientation in Dynamically Sheared Diblock Copolymers. <i>Macromolecules</i> , 1995 , 28, 778-781 | 5.5 | 85 |
| 229 | Tailoring Pore Size of Graded Mesoporous Block Copolymer Membranes: Moving from Ultrafiltration toward Nanofiltration. <i>Macromolecules</i> , 2015 , 48, 6153-6159 | 5.5 | 84 |

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| 228 | Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO ₂ crystallisation. <i>Energy and Environmental Science</i> , 2011 , 4, 225-233 | 35.4 | 83 |
| 227 | Photoinduced reorientation in liquid-crystalline polymers below the glass transition temperature studied by time-dependent infrared spectroscopy. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991 , 12, 457-464 | | 82 |
| 226 | Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016 , 2, e1501119 | 14.3 | 81 |
| 225 | Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. <i>Energy and Environmental Science</i> , 2018 , 11, 1261-1270 | 35.4 | 79 |
| 224 | General method for the synthesis of hierarchical nanocrystal-based mesoporous materials. <i>ACS Nano</i> , 2012 , 6, 6386-99 | 16.7 | 78 |
| 223 | Tunable 3D extended self-assembled gold metamaterials with enhanced light transmission. <i>Advanced Materials</i> , 2013 , 25, 2713-6 | 24 | 76 |
| 222 | Metal Oxide Containing Mesoporous Silica with Bicontinuous "Plumber's Nightmare" Morphology from a Block Copolymer-Hybrid Mesophase This work was supported by the National Science Foundation (DMR-0072009), the Cornell Center for Materials Research (NSF DMR-9632275), and the Department of Energy (DE-FG02-97ER62443). We also acknowledge very helpful discussions | 16.4 | 76 |
| 221 | Synthesis and characterization of gyroidal mesoporous carbons and carbon monoliths with tunable ultralarge pore size. <i>ACS Nano</i> , 2014 , 8, 731-43 | 16.7 | 75 |
| 220 | Highly crystalline inverse opal transition metal oxides via a combined assembly of soft and hard chemistries. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8882-3 | 16.4 | 74 |
| 219 | Symmetric diblock copolymers under large amplitude oscillatory shear flow: Entanglement effect. <i>Journal of Chemical Physics</i> , 1995 , 103, 4784-4793 | 3.9 | 74 |
| 218 | Controlling nanoparticle location via confined assembly in electrospun block copolymer nanofibers. <i>Small</i> , 2008 , 4, 2067-73 | 11 | 72 |
| 217 | Liquid Crystalline Rod-Coil Block Copolymers by Stable Free Radical Polymerization: Synthesis, Morphology, and Rheology. <i>Macromolecules</i> , 2003 , 36, 3357-3364 | 5.5 | 72 |
| 216 | Organization of nanoparticles in polymer brushes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1670-1 | 16.4 | 71 |
| 215 | Widely Tunable Morphologies in Block Copolymer Thin Films Through Solvent Vapor Annealing Using Mixtures of Selective Solvents. <i>Advanced Functional Materials</i> , 2015 , 25, 3057-3065 | 15.6 | 70 |
| 214 | Controlling Growth of Ultrasmall Sub-10 nm Fluorescent Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2013 , 25, 677-691 | 9.6 | 70 |
| 213 | Ferroptosis occurs through an osmotic mechanism and propagates independently of cell rupture. <i>Nature Cell Biology</i> , 2020 , 22, 1042-1048 | 23.4 | 68 |
| 212 | Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. <i>Chemistry of Materials</i> , 2015 , 27, 3197-3199 | 9.6 | 65 |
| 211 | Ordered mesoporous silica nanoparticles with and without embedded iron oxide nanoparticles: structure evolution during synthesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7807 | | 65 |

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| 210 | Asymmetric organic-inorganic hybrid membrane formation via block copolymer-nanoparticle co-assembly. <i>Nano Letters</i> , 2013 , 13, 5323-8 | 11.5 | 63 |
| 209 | Multicomponent Nanomaterials with Complex Networked Architectures from Orthogonal Degradation and Binary Metal Backfilling in ABC Triblock Terpolymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6026-33 | 16.4 | 61 |
| 208 | Self-assembly of highly symmetrical, ultrasmall inorganic cages directed by surfactant micelles. <i>Nature</i> , 2018 , 558, 577-580 | 50.4 | 61 |
| 207 | Elucidating the Mechanism of Silica Nanoparticle PEGylation Processes Using Fluorescence Correlation Spectroscopies. <i>Chemistry of Materials</i> , 2016 , 28, 1537-1545 | 9.6 | 60 |
| 206 | Directed Motion and Cargo Transport Through Propagation of Polymer-Gel Volume Phase Transitions. <i>Advanced Materials</i> , 2005 , 17, 1869-1873 | 24 | 60 |
| 205 | The Synthesis of Spherical Mesoporous Molecular Sieves MCM-48 with Heteroatoms Incorporated into the Silica Framework. <i>Advanced Materials</i> , 1999 , 11, 1194-1198 | 24 | 60 |
| 204 | Dye structure-optical property correlations in near-infrared fluorescent core-shell silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6341 | | 58 |
| 203 | Ordered three- and five-ply nanocomposites from ABC block terpolymer microphase separation with niobia and aluminosilicate sols. <i>Chemistry of Materials</i> , 2009 , 21, 5466-5473 | 9.6 | 58 |
| 202 | Nanohybrids from liquid crystalline extended amphiphilic dendrimers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4070-1 | 16.4 | 58 |
| 201 | Carbon-Sulfur Composites from Cylindrical and Gyroidal Mesoporous Carbons with Tunable Properties in Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 3349-3357 | 9.6 | 57 |
| 200 | Morphology Diagram of a Diblock Copolymer-Aluminosilicate Nanoparticle System. <i>Chemistry of Materials</i> , 2009 , 21, 5397-5405 | 9.6 | 57 |
| 199 | Threshold Strain Value for Perpendicular Orientation in Dynamically Sheared Diblock Copolymers. <i>Macromolecules</i> , 1997 , 30, 660-662 | 5.5 | 57 |
| 198 | Integrating structure control over multiple length scales in porous high temperature ceramics with functional platinum nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2756-62 | 11.5 | 56 |
| 197 | Direct access to bicontinuous skeletal inorganic plumber's nightmare networks from block copolymers. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1226-9 | 16.4 | 55 |
| 196 | Silica-Type Mesostructures from Block Copolymer Phases: Formation Mechanism and Generalization to the Dense Nanoparticle Regime. <i>Macromolecules</i> , 2004 , 37, 5665-5670 | 5.5 | 54 |
| 195 | Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO ₂ : High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 676-682 | 21.8 | 53 |
| 194 | Double flip of orientation for a lamellar diblock copolymer under shear. <i>Journal of Chemical Physics</i> , 1999 , 110, 8225-8228 | 3.9 | 53 |
| 193 | Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 3895-3905 | 9.6 | 52 |

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| 192 | Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1078-1087 | | 52 |
| 191 | Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014 , 5, 3247 | 17.4 | 51 |
| 190 | Nanoparticle synthesis via the photochemical polythiol process. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10072-3 | 16.4 | 51 |
| 189 | Understanding the structure and performance of self-assembled triblock terpolymer membranes. <i>Journal of Membrane Science</i> , 2013 , 444, 461-468 | 9.6 | 50 |
| 188 | Direct synthesis of inverse hexagonally ordered diblock copolymer/polyoxometalate nanocomposite films. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12685-92 | 16.4 | 49 |
| 187 | Synthesis and Self-Assembly of Amphiphilic Dendrimers Based on Aliphatic Polyether-Type Dendritic Cores. <i>Macromolecules</i> , 2004 , 37, 4227-4234 | 5.5 | 49 |
| 186 | Determination of Ion Cluster Sizes and Cluster-to-Cluster Distances in Ionomers by Four-Pulse Double Electron Electron Resonance Spectroscopy. <i>Macromolecules</i> , 2000 , 33, 7812-7818 | 5.5 | 49 |
| 185 | Self-assembly approach toward magnetic silica-type nanoparticles of different shapes from reverse block copolymer mesophases. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13310-1 | 16.4 | 48 |
| 184 | Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. <i>Polymer</i> , 2014 , 55, 1327-1332 | 3.9 | 46 |
| 183 | Metal Nanoparticle/Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009 , 21, 5578-5584 | 9.6 | 46 |
| 182 | Cancer-Targeting Ultrasmall Silica Nanoparticles for Clinical Translation: Physicochemical Structure and Biological Property Correlations. <i>Chemistry of Materials</i> , 2017 , 29, 8766-8779 | 9.6 | 45 |
| 181 | Target-or-Clear Zirconium-89 Labeled Silica Nanoparticles for Enhanced Cancer-Directed Uptake in Melanoma: A Comparison of Radiolabeling Strategies. <i>Chemistry of Materials</i> , 2017 , 29, 8269-8281 | 9.6 | 44 |
| 180 | Intraoperative mapping of sentinel lymph node metastases using a clinically translated ultrasmall silica nanoparticle. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016 , 8, 535-539 ² | | 44 |
| 179 | Annealing Effects on Orientation in Dynamically Sheared Diblock Copolymers. <i>Macromolecules</i> , 1996 , 29, 5427-5431 | 5.5 | 42 |
| 178 | A Re-Evaluation of the Morphology of a Bicontinuous Block Copolymer/Ceramic Material. <i>Macromolecules</i> , 2007 , 40, 8974-8982 | 5.5 | 41 |
| 177 | Monolithic gyroidal mesoporous mixed titanium-niobium nitrides. <i>ACS Nano</i> , 2014 , 8, 8217-23 | 16.7 | 40 |
| 176 | Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010 , 20, 1261-1268 | | 40 |
| 175 | Synthesis and Characterization of Amphiphilic Poly(ethylene oxide)-block-poly(hexyl methacrylate) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 1047-1055 | 2.6 | 39 |

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| 174 | Soft self-assembly of Weyl materials for light and sound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3655-E3664 | 11.5 | 37 |
| 173 | Direct Access to Mesoporous Crystalline TiO ₂ /Carbon Composites with Large and Uniform Pores for Use as Anode Materials in Lithium Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 383-390 | 2.6 | 37 |
| 172 | Large stokes-shift fluorescent silica nanoparticles with enhanced emission over free dye for single excitation multiplexing. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1907-10 | 4.8 | 37 |
| 171 | Synthesis and characterization of magnetically active carbon nanofiber/iron oxide composites with hierarchical pore structures. <i>Nanotechnology</i> , 2008 , 19, 455612 | 3.4 | 37 |
| 170 | Relative quantum yield measurements of coumarin encapsulated in core-shell silica nanoparticles. <i>Journal of Fluorescence</i> , 2010 , 20, 67-72 | 2.4 | 36 |
| 169 | Solid Hybrid Polymer Electrolyte Networks: Nano-Structurable Materials for Lithium Batteries. <i>Advanced Materials</i> , 2002 , 14, 1134 | 24 | 36 |
| 168 | Microphase Reorientation in Block Copolymer Melts As Detected via FT Rheology and 2D SAXS. <i>Macromolecules</i> , 2002 , 35, 3198-3204 | 5.5 | 36 |
| 167 | Nucleation and growth in order-to-order transitions of a block copolymer. <i>Europhysics Letters</i> , 2000 , 50, 182-188 | 1.6 | 36 |
| 166 | Structure and dynamics of polyelectrolyte-surfactant complexes as revealed by solid state NMR. <i>Macromolecular Chemistry and Physics</i> , 1996 , 197, 2713-2727 | 2.6 | 36 |
| 165 | The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216 | 2.6 | 36 |
| 164 | Electron spin relaxation due to small-angle motion: Theory for the canonical orientations and application to hierarchic cage dynamics in ionomers. <i>Journal of Chemical Physics</i> , 2003 , 119, 11829-11846 | 3.9 | 35 |
| 163 | Ultrasmall Core-Shell Silica Nanoparticles for Precision Drug Delivery in a High-Grade Malignant Brain Tumor Model. <i>Clinical Cancer Research</i> , 2020 , 26, 147-158 | 12.9 | 34 |
| 162 | Rheology of lamellar polystyrene-block-polyisoprene diblock copolymers. <i>Macromolecular Chemistry and Physics</i> , 1998 , 199, 1771-1784 | 2.6 | 33 |
| 161 | Teaching hydrogels how to move like an earthworm. <i>Soft Matter</i> , 2007 , 3, 939-944 | 3.6 | 33 |
| 160 | Effect of Filler Dimensionality on the OrderDisorder Transition of a Model Block Copolymer Nanocomposite. <i>Macromolecules</i> , 2002 , 35, 4862-4865 | 5.5 | 33 |
| 159 | Synthesis and Characterization of Macrozwitterionic Block Copolymers of Styrene and Isoprene. <i>Macromolecules</i> , 1996 , 29, 4865-4870 | 5.5 | 33 |
| 158 | Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. <i>Microscopy and Microanalysis</i> , 2017 , 23, 155-162 | 0.5 | 32 |
| 157 | Melanocortin-1 Receptor-Targeting Ultrasmall Silica Nanoparticles for Dual-Modality Human Melanoma Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4379-4393 | 9.5 | 32 |

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|-----|---|------|----|
| 156 | Layer-by-layer formation of block-copolymer-derived TiO ₂ for solid-state dye-sensitized solar cells. <i>Small</i> , 2012 , 8, 432-40 | 11 | 32 |
| 155 | Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11478-11492 | 13 | 31 |
| 154 | In Situ Study of Evaporation-Induced Surface Structure Evolution in Asymmetric Triblock Terpolymer Membranes. <i>Macromolecules</i> , 2016 , 49, 4195-4201 | 5.5 | 31 |
| 153 | Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. <i>Nature Communications</i> , 2017 , 8, 252 | 17.4 | 31 |
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