Ulrich B Wiesner

List of Publications by Year in Descending Order

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	Iron and nitrogen-doped double gyroid mesoporous carbons for oxygen reduction in acidic environments. *JPhys Energy*, **2021**, 3, 015001	4.9	0
298	Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates. *Advanced Functional Materials*, **2021**, 31, 2100469	15.6	5
297	Structurally Asymmetric Porous Carbon Materials with Ordered Top Surface Layers from Nonequilibrium Block Copolymer Self-Assembly. *Macromolecules*, **2021**, 54, 2979-2991	5.5	4
296	Use of Ultrasmall Core-Shell Fluorescent Silica Nanoparticles for Image-Guided Sentinel Lymph Node Biopsy in Head and Neck Melanoma: A Nonrandomized Clinical Trial. *JAMA Network Open*, **2021**, 4, e211936	10.4	15
295	Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science. *Advanced Materials*, **2021**, 33, e2006975	24	6
294	Surface Segregation and Self-Assembly of Block-Copolymer Separation Layers on Top of Homopolymer Substructures in Asymmetric Ultrafiltration Membranes from a Single Casting Step. *Advanced Functional Materials*, **2021**, 31, 2009387	15.6	4
293	Orthogonal Nanoprobes Enabling Two-Color Optical Super-Resolution Microscopy Imaging of the Two Domains of Diblock Copolymer Thin Film Nanocomposites. *Chemistry of Materials*, **2021**, 33, 5156-5167	9.6	0
292	Superconducting Quantum Metamaterials: Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates (Adv. Funct. Mater. 23/2021). *Advanced Functional Materials*, **2021**, 31, 2170166	15.6	
291	Rapid Identification of Synthetic Routes to Functional Metastable Phases Using X-ray Probed Laser Anneal Mapping (XPLAM) Time–Temperature Quench Maps. *Chemistry of Materials*, **2021**, 33, 4328-4336	9.6	2
290	Mesoporous Superconductors: Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science (Adv. Mater. 26/2021). *Advanced Materials*, **2021**, 33, 2170203	24	
289	Fluorescent Silica Nanoparticles to Label Metastatic Tumor Cells in Mineralized Bone Microenvironments. *Small*, **2021**, 17, e2001432	11	6
288	Ordered Mesoporous Microcapsules from Double Emulsion Confined Block Copolymer Self-Assembly. *ACS Nano*, **2021**, 15, 3490-3499	16.7	11
287	Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. *ACS Applied Materials & Interfaces*, **2021**, 13, 34732-34741	9.5	2
286	Addressing Particle Compositional Heterogeneities in Super-Resolution-Enhanced Live-Cell Ratiometric pH Sensing with Ultrasmall Fluorescent Core-Shell Aluminosilicate Nanoparticles.. *Advanced Functional Materials*, **2021**, 31, 2106144	15.6	1
285	Ultrasmall, Bright, and Photostable Fluorescent Core-Shell Aluminosilicate Nanoparticles for Live-Cell Optical Super-Resolution Microscopy. *Advanced Materials*, **2021**, 33, e2006829	24	7
284	Strong Circular Dichroism in Single Gyroid Optical Metamaterials. *Advanced Optical Materials*, **2020**, 8, 1902131	8.1	17
283	Structural Evolution of Ternary Amphiphilic Block Copolymer Solvent Systems for Phase Inversion Membrane Formation. *Macromolecules*, **2020**, 53, 4889-4900	5.5	4

282	Ultrasmall Core-Shell Silica Nanoparticles for Precision Drug Delivery in a High-Grade Malignant Brain Tumor Model. *Clinical Cancer Research*, **2020**, 26, 147-158	12.9	34
281	A Genomic Profile of Local Immunity in the Melanoma Microenvironment Following Treatment with Particle-Emitting Ultrasmall Silica Nanoparticles. *Cancer Biotherapy and Radiopharmaceuticals*, **2020**, 35, 459-473	3.9	11
280	Targeted melanoma radiotherapy using ultrasmall Lu-labeled melanocyte stimulating hormone-functionalized core-shell silica nanoparticles. *Biomaterials*, **2020**, 241, 119858	15.6	20
279	Two-Dimensional Superstructures of Silica Cages. *Advanced Materials*, **2020**, 32, e1908362	24	8
278	Ultrasmall PEGylated and Targeted Core-Shell Silica Nanoparticles Carrying Methylene Blue Photosensitizer. *ACS Biomaterials Science and Engineering*, **2020**, 6, 256-264	5.5	13
277	Optical super-resolution microscopy in polymer science. *Progress in Polymer Science*, **2020**, 111, 101312	29.6	10
276	Carbon-Assisted Stable Silver Nanostructures. *Advanced Materials Interfaces*, **2020**, 7, 2001227	4.6	3
275	Materials Combining Asymmetric Pore Structures with Well-Defined Mesoporosity for Energy Storage and Conversion. *ACS Nano*, **2020**,	16.7	7
274	Block Copolymer Self-Assembly-Directed and Transient Laser Heating-Enabled Nanostructures toward Phononic and Photonic Quantum Materials. *ACS Nano*, **2020**, 14, 11273-11282	16.7	7
273	Molecular Engineering of Ultrasmall Silica Nanoparticle-Drug Conjugates as Lung Cancer Therapeutics. *Clinical Cancer Research*, **2020**, 26, 5424-5437	12.9	9
272	The Next 100 Years of Polymer Science. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000216	2.6	36
271	Ferroptosis occurs through an osmotic mechanism and propagates independently of cell rupture. *Nature Cell Biology*, **2020**, 22, 1042-1048	23.4	68
270	Porous cage-derived nanomaterial inks for direct and internal three-dimensional printing. *Nature Communications*, **2020**, 11, 4695	17.4	5
269	Controlling Surface Chemical Heterogeneities of Ultrasmall Fluorescent Core Shell Silica Nanoparticles as Revealed by High-Performance Liquid Chromatography. *Journal of Physical Chemistry C*, **2019**, 123, 23246-23254	3.8	5
268	Efficient Endocytosis of Inorganic Nanoparticles with Zwitterionic Surface Functionalization. *ACS Applied Materials & Interfaces*, **2019**, 11, 38475-38482	9.5	9
267	Amorphous Quantum Nanomaterials: Amorphous Quantum Nanomaterials (Adv. Mater. 5/2019). *Advanced Materials*, **2019**, 31, 1970034	24	1
266	Bimodal Morphology Transition Pathway in the Synthesis of Ultrasmall Fluorescent Mesoporous Silica Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 9582-9589	3.8	2
265	Dye Encapsulation in Fluorescent Core-Shell Silica Nanoparticles as Probed by Fluorescence Correlation Spectroscopy. *Journal of Physical Chemistry C*, **2019**, 123, 9813-9823	3.8	16

264	Preparation of Macroscopic Block-Copolymer-Based Gyroidal Mesoscale Single Crystals by Solvent Evaporation. *Advanced Materials*, **2019**, 31, e1902565	24	10
263	Inner and Outer Surface Functionalizations of Ultrasmall Fluorescent Silica Nanorings As Shown by High-Performance Liquid Chromatography. *Chemistry of Materials*, **2019**, 31, 5519-5528	9.6	6
262	Surface Reconstruction Limited Conductivity in Block-Copolymer Li Battery Electrolytes. *Advanced Functional Materials*, **2019**, 29, 1905977	15.6	11
261	Quantitative Comparison of Dye and Ultrasmall Fluorescent Silica Core□Shell Nanoparticle Probes for Optical Super-Resolution Imaging of Model Block Copolymer Thin Film Surfaces. *ACS Macro Letters*, **2019**, 8, 1378-1382	6.6	5
260	Lu-177 radiolabeled ultrasmall C□dot nanoparticle melanoma theranostics. *Nuclear Medicine and Biology*, **2019**, 72-73, S60	2.1	
259	Ultrasmall Renally Clearable Silica Nanoparticles Target Prostate Cancer. *ACS Applied Materials & Interfaces*, **2019**, 11, 43879-43887	9.5	15
258	Molecular phenotyping and image-guided surgical treatment of melanoma using spectrally distinct ultrasmall core-shell silica nanoparticles. *Science Advances*, **2019**, 5, eaax5208	14.3	22
257	A rheometry method to assess the evaporation-induced mechanical strength development of polymer solutions used for membrane applications. *Journal of Applied Polymer Science*, **2019**, 136, 47038	2.9	8
256	Block Copolymer Self-Assembly Directed Hierarchically Structured Materials from Nonequilibrium Transient Laser Heating. *Macromolecules*, **2019**, 52, 395-409	5.5	28
255	Quantitative Measure of the Size Dispersity in Ultrasmall Fluorescent Organic-Inorganic Hybrid Core-Shell Silica Nanoparticles by Small-angle X-ray Scattering. *Chemistry of Materials*, **2019**, 31, 643-657	9.6	12
254	High-Performance Chromatographic Characterization of Surface Chemical Heterogeneities of Fluorescent Organic-Inorganic Hybrid Core-Shell Silica Nanoparticles. *ACS Nano*, **2019**, 13, 1795-1804	16.7	14
253	Metasurfaces Atop Metamaterials: Surface Morphology Induces Linear Dichroism in Gyroid Optical Metamaterials. *Advanced Materials*, **2019**, 31, e1803478	24	17
252	Amorphous Quantum Nanomaterials. *Advanced Materials*, **2019**, 31, e1806993	24	12
251	Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. *Energy and Environmental Science*, **2018**, 11, 1261-1270	35.4	79
250	A crystalline and 3D periodically ordered mesoporous quaternary semiconductor for photocatalytic hydrogen generation. *Nanoscale*, **2018**, 10, 3225-3234	7.7	19
249	Nanotechnology Strategies To Advance Outcomes in Clinical Cancer Care. *ACS Nano*, **2018**, 12, 24-43	16.7	142
248	Fluorescent Silica Nanoparticles with Well-Separated Intensity Distributions from Batch Reactions. *Nano Letters*, **2018**, 18, 1305-1310	11.5	13
247	Soft self-assembly of Weyl materials for light and sound. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E3655-E3664	11.5	37

246	Melanocortin-1 Receptor-Targeting Ultrasmall Silica Nanoparticles for Dual-Modality Human Melanoma Imaging. *ACS Applied Materials & Interfaces*, **2018**, 10, 4379-4393	9.5	32
245	Self-assembly of highly symmetrical, ultrasmall inorganic cages directed by surfactant micelles. *Nature*, **2018**, 558, 577-580	50.4	61
244	Pathways to Mesoporous Resin/Carbon Thin Films with Alternating Gyroid Morphology. *ACS Nano*, **2018**, 12, 347-358	16.7	26
243	Dynamics of Nanoparticles in Entangled Polymer Solutions. *Langmuir*, **2018**, 34, 241-249	4	29
242	Localising functionalised gold-nanoparticles in murine spinal cords by X-ray fluorescence imaging and background-reduction through spatial filtering for human-sized objects. *Scientific Reports*, **2018**, 8, 16561	4.9	10
241	Synthesis and Formation Mechanism of All-Organic Block Copolymer-Directed Templating of Laser-Induced Crystalline Silicon Nanostructures. *ACS Applied Materials & Interfaces*, **2018**, 10, 42777-42785	9.5	9
240	Early Formation Pathways of Surfactant Micelle Directed Ultrasmall Silica Ring and Cage Structures. *Journal of the American Chemical Society*, **2018**, 140, 17343-17348	16.4	14
239	Ultrasmall targeted nanoparticles with engineered antibody fragments for imaging detection of HER2-overexpressing breast cancer. *Nature Communications*, **2018**, 9, 4141	17.4	90
238	Nanoscale Q-Resolved Phonon Dynamics in Block Copolymers. *ACS Applied Nano Materials*, **2018**, 1, 4918-4926	5.9	4
237	Controlling Self-Assembly in Gyroid Terpolymer Films By Solvent Vapor Annealing. *Small*, **2018**, 14, e1802401	11	18
236	Generalized Access to Mesoporous Inorganic Particles and Hollow Spheres from Multicomponent Polymer Blends. *Advanced Materials*, **2018**, 30, e1801127	24	31
235	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. *Microscopy and Microanalysis*, **2017**, 23, 155-162	0.5	32
234	Diffusion of rigid nanoparticles in crowded polymer-network hydrogels: dominance of segmental density over crosslinking density. *Colloid and Polymer Science*, **2017**, 295, 1371-1381	2.4	5
233	Expanding Analytical Tools for Characterizing Ultrasmall Silica-based Nanoparticles. *RSC Advances*, **2017**, 7, 16861-16865	3.7	4
232	Effect of humidity on surface structure and permeation of triblock terpolymer derived SNIPS membranes. *Polymer*, **2017**, 126, 368-375	3.9	12
231	Mesoporous titanium and niobium nitrides as conductive and stable electrocatalyst supports in acid environments. *Chemical Communications*, **2017**, 53, 7250-7253	5.8	28
230	Block Copolymer Directed Nanostructured Surfaces as Templates for Confined Surface Reactions. *Macromolecules*, **2017**, 50, 542-549	5.5	13
229	Exploring Periodic Bicontinuous Cubic Network Structures with Complete Phononic Bandgaps. *Journal of Physical Chemistry C*, **2017**, 121, 22347-22352	3.8	18

228	Nanopatterning of Crystalline Transition Metal Oxides by Surface Templated Nucleation on Block Copolymer Mesostructures. *Crystal Growth and Design*, **2017**, 17, 5775-5782	3.5	5
227	Discovering Synthesis Routes to Hexagonally Ordered Mesoporous Niobium Nitrides Using Poloxamer/Pluronics Block Copolymers. *Chemistry of Materials*, **2017**, 29, 8973-8977	9.6	10
226	Cancer-Targeting Ultrasmall Silica Nanoparticles for Clinical Translation: Physicochemical Structure and Biological Property Correlations. *Chemistry of Materials*, **2017**, 29, 8766-8779	9.6	45
225	Target-or-Clear Zirconium-89 Labeled Silica Nanoparticles for Enhanced Cancer-Directed Uptake in Melanoma: A Comparison of Radiolabeling Strategies. *Chemistry of Materials*, **2017**, 29, 8269-8281	9.6	44
224	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. *Nature Communications*, **2017**, 8, 252	17.4	31
223	Modular and Orthogonal Post-PEGylation Surface Modifications by Insertion Enabling Penta-Functional Ultrasmall Organic-Silica Hybrid Nanoparticles. *Chemistry of Materials*, **2017**, 29, 6840-6855	9.6	22
222	Optical Imaging of Large Gyroid Grains in Block Copolymer Templates by Confined Crystallization. *Macromolecules*, **2017**, 50, 6255-6262	5.5	25
221	Biocatalytic Stimuli-Responsive Asymmetric Triblock Terpolymer Membranes for Localized Permeability Gating. *Macromolecular Rapid Communications*, **2017**, 38, 1700364	4.8	12
220	Understanding Initial Formation Stages of Nanomaterials Using Cryo-TEM. *Microscopy and Microanalysis*, **2016**, 22, 1844-1845	0.5	
219	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd-Doping of Mesostructured TiO2. *Advanced Energy Materials*, **2016**, 6, 1501868	21.8	130
218	In Situ Study of Evaporation-Induced Surface Structure Evolution in Asymmetric Triblock Terpolymer Membranes. *Macromolecules*, **2016**, 49, 4195-4201	5.5	31
217	Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. *Chemistry of Materials*, **2016**, 28, 838-847	9.6	10
216	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. *Science Advances*, **2016**, 2, e1501119	14.3	81
215	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. *Nano Letters*, **2016**, 16, 651-5	11.5	22
214	Elucidating the Mechanism of Silica Nanoparticle PEGylation Processes Using Fluorescence Correlation Spectroscopies. *Chemistry of Materials*, **2016**, 28, 1537-1545	9.6	60
213	Self-Assembled Gyroidal Mesoporous Polymer-Derived High Temperature Ceramic Monoliths. *Chemistry of Materials*, **2016**, 28, 2131-2137	9.6	22
212	Intraoperative mapping of sentinel lymph node metastases using a clinically translated ultrasmall silica nanoparticle. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 535-53	9.2	44
211	Dynamically Responsive Multifunctional Asymmetric Triblock Terpolymer Membranes with Intrinsic Binding Sites for Covalent Molecule Attachment. *Chemistry of Materials*, **2016**, 28, 3870-3876	9.6	31

210	Ordered gyroidal tantalum oxide photocatalysts: eliminating diffusion limitations and tuning surface barriers. *Nanoscale*, **2016**, 8, 16694-16701	7.7	17
209	Gyroid Optical Metamaterials: Calculating the Effective Permittivity of Multidomain Samples. *ACS Photonics*, **2016**, 3, 1888-1896	6.3	27
208	Asymmetric Membranes from Two Chemically Distinct Triblock Terpolymers Blended during Standard Membrane Fabrication. *Macromolecular Rapid Communications*, **2016**, 37, 1689-1693	4.8	6
207	Tuning substructure and properties of supported asymmetric triblock terpolymer membranes. *Polymer*, **2016**, 107, 398-405	3.9	16
206	Ultrasmall nanoparticles induce ferroptosis in nutrient-deprived cancer cells and suppress tumour growth. *Nature Nanotechnology*, **2016**, 11, 977-985	28.7	321
205	Highly fluorescent sub 40-nm aminated mesoporous silica nanoparticles. *Journal of Sol-Gel Science and Technology*, **2015**, 74, 32-38	2.3	6
204	Control of Ultrasmall Sub-10 nm Ligand-Functionalized Fluorescent Core–Shell Silica Nanoparticle Growth in Water. *Chemistry of Materials*, **2015**, 27, 4119-4133	9.6	86
203	Dielectric discontinuity in equilibrium block copolymer micelles. *Soft Matter*, **2015**, 11, 7081-5	3.6	4
202	One-Pot Synthesis of Hierarchically Macro- and Mesoporous Carbon Materials with Graded Porosity. *ACS Macro Letters*, **2015**, 4, 477-482	6.6	20
201	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. *RSC Advances*, **2015**, 5, 22499-22502	3.7	4
200	Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymer–butanol–alumina sols. *RSC Advances*, **2015**, 5, 49287-49294	3.7	12
199	POROUS MATERIALS. Transient laser heating induced hierarchical porous structures from block copolymer-directed self-assembly. *Science*, **2015**, 349, 54-8	33.3	112
198	Multicomponent Nanomaterials with Complex Networked Architectures from Orthogonal Degradation and Binary Metal Backfilling in ABC Triblock Terpolymers. *Journal of the American Chemical Society*, **2015**, 137, 6026-33	16.4	61
197	Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. *Chemistry of Materials*, **2015**, 27, 3197-3199	9.6	65
196	Carbon–Sulfur Composites from Cylindrical and Gyroidal Mesoporous Carbons with Tunable Properties in Lithium–Sulfur Batteries. *Chemistry of Materials*, **2015**, 27, 3349-3357	9.6	57
195	Block copolymer self-assembly for nanophotonics. *Chemical Society Reviews*, **2015**, 44, 5076-91	58.5	248
194	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. *Journal of Materials Chemistry A*, **2015**, 3, 11478-11492	13	31
193	Graded porous inorganic materials derived from self-assembled block copolymer templates. *Nanoscale*, **2015**, 7, 5826-34	7.7	18

192	Widely Tunable Morphologies in Block Copolymer Thin Films Through Solvent Vapor Annealing Using Mixtures of Selective Solvents. *Advanced Functional Materials*, **2015**, 25, 3057-3065	15.6	70
191	Ultrasmall dual-modality silica nanoparticle drug conjugates: Design, synthesis, and characterization. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7119-30	3.4	22
190	Tailoring Pore Size of Graded Mesoporous Block Copolymer Membranes: Moving from Ultrafiltration toward Nanofiltration. *Macromolecules*, **2015**, 48, 6153-6159	5.5	84
189	Ultrasmall integrin-targeted silica nanoparticles modulate signaling events and cellular processes in a concentration-dependent manner. *Small*, **2015**, 11, 1721-32	11	22
188	Block copolymer-nanoparticle hybrid self-assembly. *Progress in Polymer Science*, **2015**, 40, 3-32	29.6	107
187	A high transmission wave-guide wire network made by self-assembly. *Nanoscale*, **2015**, 7, 1032-6	7.7	9
186	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. *Advanced Functional Materials*, **2015**, 25, 5038-5046	15.6	167
185	Cryo-STEM Reveals Humidity-Controlled Shape Change in Silica Nanoparticles. *Microscopy and Microanalysis*, **2015**, 21, 1827-1828	0.5	
184	Crystallization kinetics of organic-inorganic trihalide perovskites and the role of the lead anion in crystal growth. *Journal of the American Chemical Society*, **2015**, 137, 2350-8	16.4	266
183	Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 6142	17.4	695
182	Synthesis and characterization of gyroidal mesoporous carbons and carbon monoliths with tunable ultralarge pore size. *ACS Nano*, **2014**, 8, 731-43	16.7	75
181	Hierarchically Porous Materials from Block Copolymers. *Chemistry of Materials*, **2014**, 26, 339-347	9.6	88
180	Gyroidal mesoporous multifunctional nanocomposites via atomic layer deposition. *Nanoscale*, **2014**, 6, 8736-42	7.7	19
179	Monolithic gyroidal mesoporous mixed titanium-niobium nitrides. *ACS Nano*, **2014**, 8, 8217-23	16.7	40
178	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. *Nature Communications*, **2014**, 5, 3247	17.4	51
177	Ultrafast Nonlinear Response of Gold Gyroid Three-Dimensional Metamaterials. *Physical Review Applied*, **2014**, 2,	4.3	27
176	Ordered nanostructured ceramic–metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. *Journal of Sol-Gel Science and Technology*, **2014**, 70, 286-291	2.3	3
175	Water-Based Synthesis of Ultrasmall PEGylated Gold–Silica Core–Shell Nanoparticles with Long-Term Stability. *Chemistry of Materials*, **2014**, 26, 5201-5207	9.6	18

174	Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organic–Inorganic Lead Trihalide Perovskites. *Journal of Physical Chemistry C*, **2014**, 118, 17171-17177	3.8	214
173	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. *Polymer*, **2014**, 55, 1327-1332	3.9	46
172	Thermally induced structural evolution and performance of mesoporous block copolymer-directed alumina perovskite solar cells. *ACS Nano*, **2014**, 8, 4730-9	16.7	241
171	Capturing the Structure of Mesoporous Silica Nanoparticles in Solution With Cryo-TEM. *Microscopy and Microanalysis*, **2014**, 20, 442-443	0.5	
170	Characterizing Sulfur in TEM and STEM, with Applications to Lithium Sulfur Batteries. *Microscopy and Microanalysis*, **2014**, 20, 446-447	0.5	5
169	Clinical translation of an ultrasmall inorganic optical-PET imaging nanoparticle probe. *Science Translational Medicine*, **2014**, 6, 260ra149	17.5	487
168	Designing block copolymer architectures for targeted membrane performance. *Polymer*, **2014**, 55, 347-353	3.9	89
167	Clinically-translated silica nanoparticles as dual-modality cancer-targeted probes for image-guided surgery and interventions. *Integrative Biology (United Kingdom)*, **2013**, 5, 74-86	3.7	133
166	Tunable 3D extended self-assembled gold metamaterials with enhanced light transmission. *Advanced Materials*, **2013**, 25, 2713-6	24	76
165	Enhancement of perovskite-based solar cells employing core-shell metal nanoparticles. *Nano Letters*, **2013**, 13, 4505-10	11.5	447
164	Low temperature crystallisation of mesoporous TiO2. *Nanoscale*, **2013**, 5, 10518-24	7.7	18
163	Asymmetric organic-inorganic hybrid membrane formation via block copolymer-nanoparticle co-assembly. *Nano Letters*, **2013**, 13, 5323-8	11.5	63
162	Hierarchical porous polymer scaffolds from block copolymers. *Science*, **2013**, 341, 530-4	33.3	214
161	Self-cleaning antireflective optical coatings. *Nano Letters*, **2013**, 13, 5329-35	11.5	124
160	Understanding the structure and performance of self-assembled triblock terpolymer membranes. *Journal of Membrane Science*, **2013**, 444, 461-468	9.6	50
159	Controlling Growth of Ultrasmall Sub-10 nm Fluorescent Mesoporous Silica Nanoparticles. *Chemistry of Materials*, **2013**, 25, 677-691	9.6	70
158	Towards mesoporous Keggin-type polyoxometalates – systematic study on organic template removal. *Journal of Materials Chemistry A*, **2013**, 1, 6238	13	8
157	Design and Applications of Multiscale Organic–Inorganic Hybrid Materials Derived from Block Copolymer Self-Assembly. *Advances in Polymer Science*, **2013**, 259-293	1.3	9

156	Multicompartment mesoporous silica nanoparticles with branched shapes: an epitaxial growth mechanism. *Science*, **2013**, 340, 337-41	33.3	132
155	A 3D optical metamaterial made by self-assembly. *Advanced Materials*, **2012**, 24, OP23-7	24	245
154	Access to ordered porous molybdenum oxycarbide/carbon nanocomposites. *Angewandte Chemie - International Edition*, **2012**, 51, 12892-6	16.4	24
153	Influenza virus-membrane fusion triggered by proton uncaging for single particle studies of fusion kinetics. *Analytical Chemistry*, **2012**, 84, 8480-9	7.8	31
152	Direct Access to Ordered Porous Molybdenum Oxycarbide/Carbon Nanocomposites. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 1558-1558	1.3	
151	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. *Chemistry of Materials*, **2012**, 24, 3895-3905	9.6	52
150	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 1078-1087		52
149	Kinetic rates of thermal transformations and diffusion in polymer systems measured during sub-millisecond laser-induced heating. *ACS Nano*, **2012**, 6, 5830-6	16.7	25
148	One-pot synthesis of intermetallic electrocatalysts in ordered, large-pore mesoporous carbon/silica toward formic acid oxidation. *ACS Nano*, **2012**, 6, 6870-81	16.7	85
147	Solution Small-Angle X-ray Scattering as a Screening and Predictive Tool in the Fabrication of Asymmetric Block Copolymer Membranes. *ACS Macro Letters*, **2012**, 1, 614-617	6.6	87
146	Ultrasmall sub-10 nm near-infrared fluorescent mesoporous silica nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 13180-3	16.4	166
145	Layer-by-layer formation of block-copolymer-derived TiO(2) for solid-state dye-sensitized solar cells. *Small*, **2012**, 8, 432-40	11	32
144	A silica sol-gel design strategy for nanostructured metallic materials. *Nature Materials*, **2012**, 11, 460-7	27	95
143	Predicting chiral nanostructures, lattices and superlattices in complex multicomponent nanoparticle self-assembly. *Nano Letters*, **2012**, 12, 3218-23	11.5	23
142	General method for the synthesis of hierarchical nanocrystal-based mesoporous materials. *ACS Nano*, **2012**, 6, 6386-99	16.7	78
141	Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO2: High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2012**, 2, 676-682	21.8	53
140	Direct synthesis of inverse hexagonally ordered diblock copolymer/polyoxometalate nanocomposite films. *Journal of the American Chemical Society*, **2012**, 134, 12685-92	16.4	49
139	Single Dye Molecule Behavior in Fluorescent Core–Shell Silica Nanoparticles. *Chemistry of Materials*, **2012**, 24, 361-372	9.6	26

138	Generalized Routes to Mesostructured Silicates with High Metal Content. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 1219-1228	3.1	4
137	Plasmonic dye-sensitized solar cells using core-shell metal-insulator nanoparticles. *Nano Letters*, **2011**, 11, 438-45	11.5	515
136	Highly aminated mesoporous silica nanoparticles with cubic pore structure. *Journal of the American Chemical Society*, **2011**, 133, 172-5	16.4	105
135	Block copolymer based composition and morphology control in nanostructured hybrid materials for energy conversion and storage: solar cells, batteries, and fuel cells. *Chemical Society Reviews*, **2011**, 40, 520-35	58.5	420
134	Direct Access to Mesoporous Crystalline TiO2/Carbon Composites with Large and Uniform Pores for Use as Anode Materials in Lithium Ion Batteries. *Macromolecular Chemistry and Physics*, **2011**, 212, 383-390	2.6	37
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