

Ulrich B Wiesner

List of Publications by Year in descending order

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303
papers

27,091
citations

5574

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times ranked

28585
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#	ARTICLE	IF	CITATIONS
1	Molecular Engineering of Surface Functional Groups Enabling Clinical Translation of Nanoparticle–Drug Conjugates. <i>Chemistry of Materials</i> , 2022, 34, 5344-5355.	6.7	8
2	Ultrasmall Nanoparticle Delivery of Doxorubicin Improves Therapeutic Index for High-Grade Glioma. <i>Clinical Cancer Research</i> , 2022, 28, 2938-2952.	7.0	11
3	Fluorescent Silica Nanoparticles to Label Metastatic Tumor Cells in Mineralized Bone Microenvironments. <i>Small</i> , 2021, 17, e2001432.	10.0	14
4	Ordered Mesoporous Microcapsules from Double Emulsion Confined Block Copolymer Self-Assembly. <i>ACS Nano</i> , 2021, 15, 3490-3499.	14.6	40
5	Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates. <i>Advanced Functional Materials</i> , 2021, 31, 2100469.	14.9	7
6	Structurally Asymmetric Porous Carbon Materials with Ordered Top Surface Layers from Nonequilibrium Block Copolymer Self-Assembly. <i>Macromolecules</i> , 2021, 54, 2979-2991.	4.8	11
7	Use of Ultrasmall Core-Shell Fluorescent Silica Nanoparticles for Image-Guided Sentinel Lymph Node Biopsy in Head and Neck Melanoma. <i>JAMA Network Open</i> , 2021, 4, e211936.	5.9	59
8	Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science. <i>Advanced Materials</i> , 2021, 33, e2006975.	21.0	9
9	Surface Segregation and Self-Assembly of Block-Copolymer Separation Layers on Top of Homopolymer Substructures in Asymmetric Ultrafiltration Membranes from a Single Casting Step. <i>Advanced Functional Materials</i> , 2021, 31, 2009387.	14.9	14
10	Orthogonal Nanoprobes Enabling Two-Color Optical Super-Resolution Microscopy Imaging of the Two Domains of Diblock Copolymer Thin Film Nanocomposites. <i>Chemistry of Materials</i> , 2021, 33, 5156-5167.	6.7	3
11	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). <i>Advanced Functional Materials</i> , 2021, 31, 2170166.	14.9	0
12	Rapid Identification of Synthetic Routes to Functional Metastable Phases Using X-ray Probed Laser Anneal Mapping (XPLAM) Time–Temperature Quench Maps. <i>Chemistry of Materials</i> , 2021, 33, 4328-4336.	6.7	7
13	Mesoporous Superconductors: Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science (Adv. Mater. 26/2021). <i>Advanced Materials</i> , 2021, 33, 2170203.	21.0	0
14	Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34732-34741.	8.0	4
15	Addressing Particle Compositional Heterogeneities in Super-Resolution-Enhanced Live-Cell Ratiometric pH Sensing with Ultrasmall Fluorescent Core–Shell Aluminosilicate Nanoparticles. <i>Advanced Functional Materials</i> , 2021, 31, 2106144.	14.9	9
16	One-Pot Structure Direction of Large-Pore Co-Continuous Carbon Monoliths from Ultralarge Linear Diblock Copolymers. <i>Chemistry of Materials</i> , 2021, 33, 7731-7742.	6.7	2
17	Ultrasmall, Bright, and Photostable Fluorescent Core–Shell Aluminosilicate Nanoparticles for Live-Cell Optical Super-Resolution Microscopy. <i>Advanced Materials</i> , 2021, 33, e2006829.	21.0	21
18	Iron and nitrogen-doped double gyroid mesoporous carbons for oxygen reduction in acidic environments. <i>JPhys Energy</i> , 2021, 3, 015001.	5.3	3

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19	Ultrasmall PEGylated and Targeted Core-Shell Silica Nanoparticles Carrying Methylene Blue Photosensitizer. ACS Biomaterials Science and Engineering, 2020, 6, 256-264.	5.2	23
20	Optical super-resolution microscopy in polymer science. Progress in Polymer Science, 2020, 111, 101312.	24.7	22
21	Carbon-Assisted Stable Silver Nanostructures. Advanced Materials Interfaces, 2020, 7, 2001227.	3.7	9
22	Materials Combining Asymmetric Pore Structures with Well-Defined Mesoporosity for Energy Storage and Conversion. ACS Nano, 2020, 14, 16897-16906.	14.6	18
23	Block Copolymer Self-Assembly-Directed and Transient Laser Heating-Enabled Nanostructures toward Phononic and Photonic Quantum Materials. ACS Nano, 2020, 14, 11273-11282.	14.6	16
24	Molecular Engineering of Ultrasmall Silica Nanoparticle-Drug Conjugates as Lung Cancer Therapeutics. Clinical Cancer Research, 2020, 26, 5424-5437.	7.0	21
25	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	2.2	69
26	Ferroptosis occurs through an osmotic mechanism and propagates independently of cell rupture. Nature Cell Biology, 2020, 22, 1042-1048.	10.3	228
27	Porous cage-derived nanomaterial inks for direct and internal three-dimensional printing. Nature Communications, 2020, 11, 4695.	12.8	18
28	Strong Circular Dichroism in Single Gyroid Optical Metamaterials. Advanced Optical Materials, 2020, 8, 1902131.	7.3	32
29	Structural Evolution of Ternary Amphiphilic Block Copolymer Solvent Systems for Phase Inversion Membrane Formation. Macromolecules, 2020, 53, 4889-4900.	4.8	7
30	Ultrasmall Core-Shell Silica Nanoparticles for Precision Drug Delivery in a High-Grade Malignant Brain Tumor Model. Clinical Cancer Research, 2020, 26, 147-158.	7.0	59
31	A Genomic Profile of Local Immunity in the Melanoma Microenvironment Following Treatment with β -Particle-Emitting Ultrasmall Silica Nanoparticles. Cancer Biotherapy and Radiopharmaceuticals, 2020, 35, 459-473.	1.0	13
32	Targeted melanoma radiotherapy using ultrasmall ^{177}Lu -labeled β -melanocyte stimulating hormone-functionalized core-shell silica nanoparticles. Biomaterials, 2020, 241, 119858.	11.4	35
33	Two-Dimensional Superstructures of Silica Cages. Advanced Materials, 2020, 32, e1908362.	21.0	20
34	Preparation of Macroscopic Block-Copolymer-Based Gyroidal Mesoscale Single Crystals by Solvent Evaporation. Advanced Materials, 2019, 31, e1902565.	21.0	18
35	Inner and Outer Surface Functionalizations of Ultrasmall Fluorescent Silica Nanorings As Shown by High-Performance Liquid Chromatography. Chemistry of Materials, 2019, 31, 5519-5528.	6.7	8
36	Surface Reconstruction Limited Conductivity in Block-Copolymer Li Battery Electrolytes. Advanced Functional Materials, 2019, 29, 1905977.	14.9	26

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37	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.	4.8	9
38	Lu-177 radiolabeled ultrasmall Cd™ dot nanoparticle melanoma theranostics. Nuclear Medicine and Biology, 2019, 72-73, S60.	0.6	0
39	Ultrasmall Renally Clearable Silica Nanoparticles Target Prostate Cancer. ACS Applied Materials & Interfaces, 2019, 11, 43879-43887.	8.0	27
40	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.	3.1	7
41	Efficient Endocytosis of Inorganic Nanoparticles with Zwitterionic Surface Functionalization. ACS Applied Materials & Interfaces, 2019, 11, 38475-38482.	8.0	16
42	Amorphous Quantum Nanomaterials: Amorphous Quantum Nanomaterials (Adv. Mater. 5/2019). Advanced Materials, 2019, 31, 1970034.	21.0	2
43	Bimodal Morphology Transition Pathway in the Synthesis of Ultrasmall Fluorescent Mesoporous Silica Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 9582-9589.	3.1	6
44	Dye Encapsulation in Fluorescent Core–Shell Silica Nanoparticles as Probed by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 9813-9823.	3.1	27
45	Molecular phenotyping and image-guided surgical treatment of melanoma using spectrally distinct ultrasmall core-shell silica nanoparticles. Science Advances, 2019, 5, eaax5208.	10.3	36
46	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.	2.6	9
47	Block Copolymer Self-Assembly Directed Hierarchically Structured Materials from Nonequilibrium Transient Laser Heating. Macromolecules, 2019, 52, 395-409.	4.8	45
48	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.	6.7	18
49	High-Performance Chromatographic Characterization of Surface Chemical Heterogeneities of Fluorescent Organic–Inorganic Hybrid Core–Shell Silica Nanoparticles. ACS Nano, 2019, 13, 1795-1804.	14.6	17
50	Metasurfaces Atop Metamaterials: Surface Morphology Induces Linear Dichroism in Gyroid Optical Metamaterials. Advanced Materials, 2019, 31, 1803478.	21.0	24
51	Amorphous Quantum Nanomaterials. Advanced Materials, 2019, 31, 1806993.	21.0	15
52	Understanding the Influence of Porosity on Product Selectivity for Copper CO2 Reduction Electrocatalysts. ECS Meeting Abstracts, 2019, , .	0.0	0
53	Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. Energy and Environmental Science, 2018, 11, 1261-1270.	30.8	124
54	A crystalline and 3D periodically ordered mesoporous quaternary semiconductor for photocatalytic hydrogen generation. Nanoscale, 2018, 10, 3225-3234.	5.6	25

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55	Nanotechnology Strategies To Advance Outcomes in Clinical Cancer Care. ACS Nano, 2018, 12, 24-43.	14.6	192
56	Fluorescent Silica Nanoparticles with Well-Separated Intensity Distributions from Batch Reactions. Nano Letters, 2018, 18, 1305-1310.	9.1	16
57	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.	7.1	51
58	Melanocortin-1 Receptor-Targeting Ultrasmall Silica Nanoparticles for Dual-Modality Human Melanoma Imaging. ACS Applied Materials & Interfaces, 2018, 10, 4379-4393.	8.0	40
59	Pathways to Mesoporous Resin/Carbon Thin Films with Alternating Gyroid Morphology. ACS Nano, 2018, 12, 347-358.	14.6	35
60	Dynamics of Nanoparticles in Entangled Polymer Solutions. Langmuir, 2018, 34, 241-249.	3.5	42
61	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.	3.3	25
62	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.	8.0	15
63	Early Formation Pathways of Surfactant Micelle Directed Ultrasmall Silica Ring and Cage Structures. Journal of the American Chemical Society, 2018, 140, 17343-17348.	13.7	18
64	Linear and Circular Dichroism in Gyroid Optical Metamaterials. , 2018, , .		0
65	Ultrasmall targeted nanoparticles with engineered antibody fragments for imaging detection of HER2-overexpressing breast cancer. Nature Communications, 2018, 9, 4141.	12.8	126
66	Nanoscale $\langle i \rangle Q \langle /i \rangle$ -Resolved Phonon Dynamics in Block Copolymers. ACS Applied Nano Materials, 2018, 1, 4918-4926.	5.0	6
67	Controlling Self-Assembly in Gyroid Terpolymer Films By Solvent Vapor Annealing. Small, 2018, 14, e1802401.	10.0	21
68	Generalized Access to Mesoporous Inorganic Particles and Hollow Spheres from Multicomponent Polymer Blends. Advanced Materials, 2018, 30, e1801127.	21.0	52
69	Self-assembly of highly symmetrical, ultrasmall inorganic cages directed by surfactant micelles. Nature, 2018, 558, 577-580.	27.8	86
70	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. Microscopy and Microanalysis, 2017, 23, 155-162.	0.4	40
71	Diffusion of rigid nanoparticles in crowded polymer-network hydrogels: dominance of segmental density over crosslinking density. Colloid and Polymer Science, 2017, 295, 1371-1381.	2.1	8
72	Expanding analytical tools for characterizing ultrasmall silica-based nanoparticles. RSC Advances, 2017, 7, 16861-16865.	3.6	4

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73	Effect of humidity on surface structure and permeation of triblock terpolymer derived SNIPS membranes. <i>Polymer</i> , 2017, 126, 368-375.	3.8	17
74	Mesoporous titanium and niobium nitrides as conductive and stable electrocatalyst supports in acid environments. <i>Chemical Communications</i> , 2017, 53, 7250-7253.	4.1	34
75	Block Copolymer Directed Nanostructured Surfaces as Templates for Confined Surface Reactions. <i>Macromolecules</i> , 2017, 50, 542-549.	4.8	18
76	Exploring Periodic Bicontinuous Cubic Network Structures with Complete Phononic Bandgaps. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22347-22352.	3.1	24
77	Nanopatterning of Crystalline Transition Metal Oxides by Surface Templated Nucleation on Block Copolymer Mesostructures. <i>Crystal Growth and Design</i> , 2017, 17, 5775-5782.	3.0	6
78	Discovering Synthesis Routes to Hexagonally Ordered Mesoporous Niobium Nitrides Using Poloxamer/Pluronics Block Copolymers. <i>Chemistry of Materials</i> , 2017, 29, 8973-8977.	6.7	12
79	Cancer-Targeting Ultrasmall Silica Nanoparticles for Clinical Translation: Physicochemical Structure and Biological Property Correlations. <i>Chemistry of Materials</i> , 2017, 29, 8766-8779.	6.7	58
80	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.	6.7	59
81	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. <i>Nature Communications</i> , 2017, 8, 252.	12.8	51
82	Modular and Orthogonal Post-PEGylation Surface Modifications by Insertion Enabling Penta-Functional Ultrasmall Organic-Silica Hybrid Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 6840-6855.	6.7	31
83	Optical Imaging of Large Gyroid Grains in Block Copolymer Templates by Confined Crystallization. <i>Macromolecules</i> , 2017, 50, 6255-6262.	4.8	29
84	Biocatalytic Stimuli-Responsive Asymmetric Triblock Terpolymer Membranes for Localized Permeability Gating. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700364.	3.9	14
85	Intraoperative mapping of sentinel lymph node metastases using a clinically translated ultrasmall silica nanoparticle. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 535-553.	6.1	49
86	Dynamically Responsive Multifunctional Asymmetric Triblock Terpolymer Membranes with Intrinsic Binding Sites for Covalent Molecule Attachment. <i>Chemistry of Materials</i> , 2016, 28, 3870-3876.	6.7	38
87	Ordered gyroidal tantalum oxide photocatalysts: eliminating diffusion limitations and tuning surface barriers. <i>Nanoscale</i> , 2016, 8, 16694-16701.	5.6	27
88	Gyroid Optical Metamaterials: Calculating the Effective Permittivity of Multidomain Samples. <i>ACS Photonics</i> , 2016, 3, 1888-1896.	6.6	38
89	Asymmetric Membranes from Two Chemically Distinct Triblock Terpolymers Blended during Standard Membrane Fabrication. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1689-1693.	3.9	8
90	Tuning substructure and properties of supported asymmetric triblock terpolymer membranes. <i>Polymer</i> , 2016, 107, 398-405.	3.8	21

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91	Ultrasmall nanoparticles induce ferroptosis in nutrient-deprived cancer cells and suppress tumour growth. <i>Nature Nanotechnology</i> , 2016, 11, 977-985.	31.5	467
92	Understanding Initial Formation Stages of Nanomaterials Using Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1844-1845.	0.4	0
93	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd-Doping of Mesoporous TiO ₂ . <i>Advanced Energy Materials</i> , 2016, 6, 1501868.	19.5	157
94	<i>In Situ</i> Study of Evaporation-Induced Surface Structure Evolution in Asymmetric Triblock Terpolymer Membranes. <i>Macromolecules</i> , 2016, 49, 4195-4201.	4.8	35
95	Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. <i>Chemistry of Materials</i> , 2016, 28, 838-847.	6.7	12
96	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016, 2, e1501119.	10.3	104
97	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. <i>Nano Letters</i> , 2016, 16, 651-655.	9.1	26
98	Elucidating the Mechanism of Silica Nanoparticle PEGylation Processes Using Fluorescence Correlation Spectroscopies. <i>Chemistry of Materials</i> , 2016, 28, 1537-1545.	6.7	76
99	Self-Assembled Gyroidal Mesoporous Polymer-Derived High Temperature Ceramic Monoliths. <i>Chemistry of Materials</i> , 2016, 28, 2131-2137.	6.7	29
100	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5038-5046.	14.9	198
101	Cryo-STEM Reveals Humidity-Controlled Shape Change in Silica Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 1827-1828.	0.4	0
102	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, 2350-2358.	13.7	326
103	Ultrasoft organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 6142.	12.8	784
104	Highly fluorescent sub 40-nm aminated mesoporous silica nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 32-38.	2.4	7
105	Control of Ultrasoft Sub-10 nm Ligand-Functionalized Fluorescent Core-Shell Silica Nanoparticle Growth in Water. <i>Chemistry of Materials</i> , 2015, 27, 4119-4133.	6.7	107
106	Dielectric discontinuity in equilibrium block copolymer micelles. <i>Soft Matter</i> , 2015, 11, 7081-7085.	2.7	5
107	One-Pot Synthesis of Hierarchically Macro- and Mesoporous Carbon Materials with Graded Porosity. <i>ACS Macro Letters</i> , 2015, 4, 477-482.	4.8	25
108	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. <i>RSC Advances</i> , 2015, 5, 22499-22502.	3.6	4

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109	Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymerâ€“butanolâ€“alumina sols. RSC Advances, 2015, 5, 49287-49294.	3.6	13
110	Transient laser heating induced hierarchical porous structures from block copolymerâ€“directed self-assembly. Science, 2015, 349, 54-58.	12.6	145
111	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, 6026-6033.	13.7	70
112	Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. Chemistry of Materials, 2015, 27, 3197-3199.	6.7	87
113	Carbonâ€“Sulfur Composites from Cylindrical and Gyroidal Mesoporous Carbons with Tunable Properties in Lithiumâ€“Sulfur Batteries. Chemistry of Materials, 2015, 27, 3349-3357.	6.7	65
114	Block copolymer self-assembly for nanophotonics. Chemical Society Reviews, 2015, 44, 5076-5091.	38.1	328
115	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.	10.3	35
116	Graded porous inorganic materials derived from self-assembled block copolymer templates. Nanoscale, 2015, 7, 5826-5834.	5.6	21
117	Widely Tunable Morphologies in Block Copolymer Thin Films Through Solvent Vapor Annealing Using Mixtures of Selective Solvents. Advanced Functional Materials, 2015, 25, 3057-3065.	14.9	86
118	Ultrasmall dual-modality silica nanoparticle drug conjugates: Design, synthesis, and characterization. Bioorganic and Medicinal Chemistry, 2015, 23, 7119-7130.	3.0	26
119	Tailoring Pore Size of Graded Mesoporous Block Copolymer Membranes: Moving from Ultrafiltration toward Nanofiltration. Macromolecules, 2015, 48, 6153-6159.	4.8	94
120	Ultrasmall Integrinâ€“Targeted Silica Nanoparticles Modulate Signaling Events and Cellular Processes in a Concentrationâ€“Dependent Manner. Small, 2015, 11, 1721-1732.	10.0	28
121	Block copolymer-nanoparticle hybrid self-assembly. Progress in Polymer Science, 2015, 40, 3-32.	24.7	139
122	A high transmission wave-guide wire network made by self-assembly. Nanoscale, 2015, 7, 1032-1036.	5.6	13
123	Clinical translation of an ultrasmall inorganic optical-PET imaging nanoparticle probe. Science Translational Medicine, 2014, 6, 260ra149.	12.4	589
124	Designing block copolymer architectures for targeted membrane performance. Polymer, 2014, 55, 347-353.	3.8	103
125	Synthesis and Characterization of Gyroidal Mesoporous Carbons and Carbon Monoliths with Tunable Ultralarge Pore Size. ACS Nano, 2014, 8, 731-743.	14.6	92
126	Hierarchically Porous Materials from Block Copolymers. Chemistry of Materials, 2014, 26, 339-347.	6.7	107

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127	Gyroidal mesoporous multifunctional nanocomposites via atomic layer deposition. <i>Nanoscale</i> , 2014, 6, 8736.	5.6	22
128	Monolithic Gyroidal Mesoporous Mixed Titanium–Niobium Nitrides. <i>ACS Nano</i> , 2014, 8, 8217-8223.	14.6	47
129	Linking experiment and theory for three-dimensional networked binary metal nanoparticle–triblock terpolymer superstructures. <i>Nature Communications</i> , 2014, 5, 3247.	12.8	58
130	Ultrafast Nonlinear Response of Gold Gyroid Three-Dimensional Metamaterials. <i>Physical Review Applied</i> , 2014, 2, .	3.8	37
131	Ordered nanostructured ceramic–metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 286-291.	2.4	3
132	Water-Based Synthesis of Ultrasmall PEGylated Gold–Silica Core–Shell Nanoparticles with Long-Term Stability. <i>Chemistry of Materials</i> , 2014, 26, 5201-5207.	6.7	20
133	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.	3.1	225
134	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. <i>Polymer</i> , 2014, 55, 1327-1332.	3.8	49
135	Thermally Induced Structural Evolution and Performance of Mesoporous Block Copolymer-Directed Alumina Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 4730-4739.	14.6	269
136	Capturing the Structure of Mesoporous Silica Nanoparticles in Solution With Cryo-TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 442-443.	0.4	1
137	Characterizing Sulfur in TEM and STEM, with Applications to Lithium Sulfur Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 446-447.	0.4	5
138	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.	1.3	153
139	Tunable 3D Extended Self-Assembled Gold Metamaterials with Enhanced Light Transmission. <i>Advanced Materials</i> , 2013, 25, 2713-2716.	21.0	80
140	Enhancement of Perovskite-Based Solar Cells Employing Core–Shell Metal Nanoparticles. <i>Nano Letters</i> , 2013, 13, 4505-4510.	9.1	505
141	Low temperature crystallisation of mesoporous TiO ₂ . <i>Nanoscale</i> , 2013, 5, 10518.	5.6	19
142	Asymmetric Organic–Inorganic Hybrid Membrane Formation via Block Copolymer–Nanoparticle Co-Assembly. <i>Nano Letters</i> , 2013, 13, 5323-5328.	9.1	71
143	Hierarchical Porous Polymer Scaffolds from Block Copolymers. <i>Science</i> , 2013, 341, 530-534.	12.6	257
144	Self-Cleaning Antireflective Optical Coatings. <i>Nano Letters</i> , 2013, 13, 5329-5335.	9.1	155

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145	Understanding the structure and performance of self-assembled triblock terpolymer membranes. Journal of Membrane Science, 2013, 444, 461-468.	8.2	59
146	Controlling Growth of Ultrasmall Sub-10 nm Fluorescent Mesoporous Silica Nanoparticles. Chemistry of Materials, 2013, 25, 677-691.	6.7	82
147	Towards mesoporous Keggin-type polyoxometalates – systematic study on organic template removal. Journal of Materials Chemistry A, 2013, 1, 6238.	10.3	12
148	Design and Applications of Multiscale Organic-Inorganic Hybrid Materials Derived from Block Copolymer Self-Assembly. Advances in Polymer Science, 2013, , 259-293.	0.8	10
149	Multicompartment Mesoporous Silica Nanoparticles with Branched Shapes: An Epitaxial Growth Mechanism. Science, 2013, 340, 337-341.	12.6	151
150	Generalized Routes to Mesostructured Silicates with High Metal Content. Zeitschrift Fur Physikalische Chemie, 2012, 226, 1219-1228.	2.8	6
151	Access to Ordered Porous Molybdenum Oxycarbide/Carbon Nanocomposites. Angewandte Chemie - International Edition, 2012, 51, 12892-12896.	13.8	29
152	Influenza Virus-Membrane Fusion Triggered by Proton Uncaging for Single Particle Studies of Fusion Kinetics. Analytical Chemistry, 2012, 84, 8480-8489.	6.5	43
153	Direct Access to Ordered Porous Molybdenum Oxycarbide/Carbon Nanocomposites. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1558-1558.	1.2	0
154	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. Chemistry of Materials, 2012, 24, 3895-3905.	6.7	61
155	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. Journal of Materials Chemistry, 2012, 22, 1078-1087.	6.7	58
156	Kinetic Rates of Thermal Transformations and Diffusion in Polymer Systems Measured during Sub-millisecond Laser-Induced Heating. ACS Nano, 2012, 6, 5830-5836.	14.6	31
157	One-Pot Synthesis of Intermetallic Electrocatalysts in Ordered, Large-Pore Mesoporous Carbon/Silica toward Formic Acid Oxidation. ACS Nano, 2012, 6, 6870-6881.	14.6	98
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