

# Self-assembly of block copolymers towards mesoporous conversion systems

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Nitrogen-Doped Mesoporous Carbon Microspheres by Spray Drying-Vapor Deposition for High-Performance Supercapacitor. <i>Frontiers in Chemistry</i> , 2020, 8, 592904.	1.8	6
2	Crescent-Shaped Supramolecular Tetrapeptide Nanostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 20058-20065.	6.6	33
3	Metal-Organic Framework/Polyaniline Nanocomposites for Lightweight Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 12368-12377.	2.5	29
4	Mesoporous Titanium Oxynitride Monoliths from Block Copolymer-Directed Self-Assembly of Metal-Urea Additives. <i>Langmuir</i> , 2020, 36, 10803-10810.	1.6	11
5	Three-Dimensional Ordered Porous Carbon for Energy Conversion and Storage Applications. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	23
6	Tunable Concave Surface Features of Mesoporous Palladium Nanocrystals Prepared from Supramolecular Micellar Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51357-51365.	4.0	16
7	Single-Atom and Dual-Atom Electrocatalysts Derived from Metal Organic Frameworks: Current Progress and Perspectives. <i>ChemSusChem</i> , 2021, 14, 73-93.	3.6	76
8	Revealing the structure design of alloyed based electrodes for alkali metal ion batteries with in situ TEM. <i>Journal of Energy Chemistry</i> , 2021, 59, 405-418.	7.1	12
9	Nanostructure Dependence of $\text{Nb}_2\text{O}_5$ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	24
10	Double diamond structured bicontinuous mesoporous titania templated by a block copolymer for anode material of lithium-ion battery. <i>Nano Research</i> , 2021, 14, 992-997.	5.8	25
11	Enhanced $\beta$ -phase crystallinity of $\text{Al}_2\text{O}_3$ frameworks at the concave surface of PS- <i>b</i> -PEO templated spherical pores. <i>Dalton Transactions</i> , 2021, 50, 7191-7197.	1.6	3
12	Recent advances in the synthesis of mesoporous materials and their application to lithium-ion batteries and hybrid supercapacitors. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 227-247.	1.2	37
13	Efficient Fabrication of Diverse Mesostructured Materials from the Self-Assembly of Pyrrole-Containing Block Copolymers and Their Confined Chemical Transformation. <i>Macromolecules</i> , 2021, 54, 906-918.	2.2	8
14	Phenolic-enabled nanotechnology: versatile particle engineering for biomedicine. <i>Chemical Society Reviews</i> , 2021, 50, 4432-4483.	18.7	163
15	Fluorescent polymer cubosomes and hexosomes with aggregation-induced emission. <i>Chemical Science</i> , 2021, 12, 5495-5504.	3.7	31
16	Recent advances in enzyme-free electrochemical hydrogen peroxide sensors based on carbon hybrid nanocomposites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6970-6990.	2.7	36
17	Mesoporous $\text{TiO}_2$ -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1189-1207.	2.9	27
18	Anodic hydrazine oxidation assisted hydrogen evolution over bimetallic RhIr mesoporous nanospheres. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18323-18328.	5.2	21

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19	Soft template-mediated coupling construction of sandwiched mesoporous PPy/Ag nanoplates for rapid and selective NH <sub>3</sub> sensing. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8308-8316.	5.2	18
20	Polyethylenimine-modified bimetallic Au@Rh core-shell mesoporous nanospheres surpass Pt for pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13080-13086.	5.2	29
21	Recent innovations in properties of nanostructured glasses and composites. <i>Journal of Experimental Nanoscience</i> , 2021, 16, 180-211.	1.3	5
22	Bio-alcohol induced self-assembly of heterojunctioned TiO <sub>2</sub> /WO <sub>3</sub> composites into a hierarchical yolk-shell structure for photocatalysis. <i>Chemical Communications</i> , 2021, 57, 6883-6886.	2.2	8
23	Engineering nanoreactors for metal-chalcogen batteries. <i>Energy and Environmental Science</i> , 2021, 14, 540-575.	15.6	70
24	Fluorescence Microscopic Investigations of Molecular Dynamics in Self-Assembled Nanostructures. <i>Chemical Record</i> , 2021, 21, 1417-1429.	2.9	4
25	Mesoporous Alumina-Titania Composites with Enhanced Molybdenum Adsorption towards Medical Radioisotope Production. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 502-507.	2.0	10
26	Porphyrin-Based Conjugated Microporous Polymer Tubes: Template-Free Synthesis and A Photocatalyst for Visible-Light-Driven Thiocyanation of Anilines. <i>Macromolecules</i> , 2021, 54, 3543-3553.	2.2	25
27	Discovery and Insights into Organized Spontaneous Emulsification via Interfacial Self-Assembly of Amphiphilic Bottlebrush Block Copolymers. <i>Macromolecules</i> , 2021, 54, 3668-3677.	2.2	36
28	Fabrication of a Highly Sensitive and Selective Electrochemical Imidacloprid Sensor Using a Glassy Carbon Electrode Modified With MWCNTs/SBA-15@Si-CDs Nanocomposite. <i>IEEE Sensors Journal</i> , 2021, 21, 9763-9770.	2.4	9
29	Topics in the mathematical design of materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200108.	1.6	1
30	Bottlebrush polymers: From controlled synthesis, self-assembly, properties to applications. <i>Progress in Polymer Science</i> , 2021, 116, 101387.	11.8	138
31	Effects of incorporated vanadium and its chemical states on morphology and mesostructure of mesoporous bioactive glass particles. <i>Microporous and Mesoporous Materials</i> , 2021, 319, 111061.	2.2	12
32	Three-Dimensional Self-Supporting Ti <sub>3</sub> C <sub>2</sub> with MoS <sub>2</sub> and Cu <sub>2</sub> O Nanocrystals for High-Performance Flexible Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22664-22675.	4.0	107
33	Solution-based deposition of nano-embossed metal electrodes on cotton fabrics for wearable heaters and supercapacitors. <i>International Journal of Energy Research</i> , 2021, 45, 15438-15451.	2.2	6
34	Graphene-Based Two-Dimensional Mesoporous Materials: Synthesis and Electrochemical Energy Storage Applications. <i>Materials</i> , 2021, 14, 2597.	1.3	11
35	Cooperative organizations of small molecular surfactants and amphiphilic block copolymers: Roles of surfactants in the formation of binary assemblies. <i>Aggregate</i> , 2021, 2, e49.	5.2	10
36	Supramicellar Nanofibrils with End-to-End Coupled Uniform Cylindrical Micelle Subunits via One-Step Assembly from a Liquid Crystalline Block Copolymer. <i>Macromolecules</i> , 2021, 54, 6845-6853.	2.2	21

#	ARTICLE	IF	CITATIONS
37	Controllable Preparation of Core-Shell Composites and Their Templated Hollow Carbons Based on a Well-Orchestrated Molecular Bridge-Linked Organic-Inorganic Hybrid Interface. ACS Applied Materials & Interfaces, 2021, 13, 26404-26410.	4.0	9
38	New emerging review on advances in block copolymer based water purification membranes. Journal of Molecular Structure, 2021, 1231, 129926.	1.8	10
39	Halogen-bond-driven supramolecular assemblies of quaternary-ammonium-iodide-containing polymers in three phases. Cell Reports Physical Science, 2021, 2, 100469.	2.8	3
40	Emulsion-Guided Controllable Construction of Anisotropic Particles: Droplet Size Determines Particle Structure. Advanced Materials, 2021, 33, e2102930.	11.1	24
41	Mechanistic Insights of Pore Contributions in Carbon Supercapacitors by Modified Step Potential Electrochemical Spectroscopy. Journal of the Electrochemical Society, 2021, 168, 060530.	1.3	4
42	Recent Progress in Polymer Cubosomes and Hexosomes. Macromolecular Rapid Communications, 2021, 42, e2100194.	2.0	19
43	Nanoarchitected Porous Conducting Polymers: From Controlled Synthesis to Advanced Applications. Advanced Materials, 2021, 33, e2007318.	11.1	68
44	Size-Controlled Au Nanoparticles Incorporating Mesoporous ZnO for Sensitive Ethanol Sensing. ACS Applied Materials & Interfaces, 2021, 13, 51933-51944.	4.0	40
45	Bioinspired Self-Assembling Materials for Modulating Enzyme Functions. Advanced Functional Materials, 2021, 31, 2104819.	7.8	21
46	Metal Oxide-Related Dendritic Structures: Self-Assembly and Applications for Sensor, Catalysis, Energy Conversion and Beyond. Nanomaterials, 2021, 11, 1686.	1.9	7
47	Block copolymer solution self-assembly: Recent advances, emerging trends, and applications. Journal of Polymer Science, 2021, 59, 1874-1898.	2.0	81
48	Decoupling the Impacts of Engineering Defects and Band Gap Alignment Mechanism on the Catalytic Performance of Holey 2D CeO <sub>2</sub> -Based Heterojunctions. Advanced Functional Materials, 2021, 31, 2103171.	7.8	27
49	Redox Charge Transfer Kinetics and Reversibility of VO <sub>2</sub> in Aqueous and Non-Aqueous Electrolytes of Na-ion Storage. Energy and Environmental Materials, 2022, 5, 1222-1228.	7.3	4
50	Random copolymerization of macromonomers as a versatile strategy to synthesize mixed-graft block copolymers. Journal of Polymer Science, 2021, 59, 2571-2580.	2.0	7
51	The ordered mesoporous carbon coated graphene as a high-performance broadband microwave absorbent. Carbon, 2021, 179, 435-444.	5.4	41
52	Interface Assembly to Magnetic Mesoporous Organosilica Microspheres with Tunable Surface Roughness as Advanced Catalyst Carriers and Adsorbents. ACS Applied Materials & Interfaces, 2021, 13, 36138-36146.	4.0	14
53	Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. ACS Applied Materials & Interfaces, 2021, 13, 34732-34741.	4.0	4
54	Giant Polymer Vesicles with a Latticelike Membrane. ACS Macro Letters, 2021, 10, 1015-1022.	2.3	16

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55	Small-Molecule Prodrug Nanoassemblies: An Emerging Nanoplatform for Anticancer Drug Delivery. <i>Small</i> , 2021, 17, e2101460.	5.2	87
56	Nanostructured Polymer Electrolytes for Lithium-Ion Batteries. <i>Macromolecular Research</i> , 2021, 29, 509-518.	1.0	21
57	Self-assembly of single metal sites embedded covalent organic frameworks into multi-dimensional nanostructures for efficient CO <sub>2</sub> electroreduction. <i>Chinese Chemical Letters</i> , 2022, 33, 1439-1444.	4.8	31
58	Interface-Induced Self-Assembly Strategy Toward 2D Ordered Mesoporous Carbon/MXene Heterostructures for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2021, 14, 4422-4430.	3.6	14
59	Reactive Amphiphilic Aprotic Ionic Liquids Based on Functionalized Oligomeric Silsesquioxanes. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2263-2271.	2.0	5
60	Opportunities and Challenges for Inverse Design of Nanostructures with Sequence Defined Macromolecules. <i>Accounts of Materials Research</i> , 2021, 2, 697-700.	5.9	4
61	Morphology Transformation Pathway of Block Copolymer-Directed Cooperative Self-Assembly of ZnO Hybrid Films Monitored In Situ during Slot-Die Coating. <i>Advanced Functional Materials</i> , 2021, 31, 2105644.	7.8	11
62	Confined La <sub>2</sub> O <sub>3</sub> particles in mesoporous carbon material for enhanced phosphate adsorption. <i>Royal Society Open Science</i> , 2021, 8, 210428.	1.1	3
63	Metal-free, NH <sub>3</sub> -activated N-doped mesoporous nanocarbon electrocatalysts for the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2021, 129, 107092.	2.3	3
64	Air-stable inorganic solid-state electrolytes for high energy density lithium batteries: Challenges, strategies, and prospects. <i>Informa-Materials</i> , 2022, 4, .	8.5	71
65	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. <i>Science Advances</i> , 2021, 7, eabh3482.	4.7	74
66	Electroinduced Surfactant Self-Assembly Driven to Vertical Growth of Oriented Mesoporous Films. <i>Accounts of Chemical Research</i> , 2021, 54, 3563-3575.	7.6	38
67	Co-assembly-driven nanocomposite formation techniques toward mesoporous nanosphere engineering: A review. <i>Microporous and Mesoporous Materials</i> , 2021, 324, 111312.	2.2	8
68	Interface-Induced Self-Assembly Strategy Toward 2D Ordered Mesoporous Carbon/MXene Heterostructures for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2021, 14, 4353.	3.6	1
69	Ni-nanoclusters hybridized 1T-MnVTe <sub>2</sub> mesoporous nanosheets for ultra-low potential water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120780.	10.8	32
70	Quantitative Coassembly for Precise Synthesis of Mesoporous Nanospheres with Pore Structure-Dependent Catalytic Performance. <i>Advanced Materials</i> , 2021, 33, e2103130.	11.1	13
71	Mesoporous NiCo alloy/reduced graphene oxide nanocomposites as efficient hydrogen evolution catalysts. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 603-610.	5.0	24
72	Recent advance in structure regulation of high-capacity Ni-rich layered oxide cathodes. <i>EcoMat</i> , 2021, 3, e12141.	6.8	38

#	ARTICLE	IF	CITATIONS
73	Facile synthesis of a rod-like porous carbon framework confined magnetite nanoparticle composite for superior lithium-ion storage. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 602-612.	5.0	16
74	Microstructural and optical characterization of polymer nanotemplates with different morphologies. <i>Vacuum</i> , 2021, 193, 110512.	1.6	0
75	A universal, facile and ultrafast monomer-tuned strategy to construct multi-dimensional hierarchical polymer structures and applications for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131135.	6.6	10
76	“Net fishing” of synthesized micelle-scale single hollow polymer nanospheres from a solution. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5806-5813.	3.2	1
77	Revisiting anodic alumina templates: from fabrication to applications. <i>Nanoscale</i> , 2021, 13, 2227-2265.	2.8	153
78	Self-assembled multifunctional Fe <sub>3</sub> O <sub>4</sub> hierarchical microspheres: high-efficiency lithium-ion battery materials and hydrogenation catalysts. <i>Science China Materials</i> , 2021, 64, 1058-1070.	3.5	9
79	Shaping Block Copolymer Microparticles by pH-Responsive Core-Cross-Linked Polymeric Nanoparticles. <i>Langmuir</i> , 2021, 37, 454-460.	1.6	5
80	Polyaniline nanowire arrays generated through oriented mesoporous silica films: effect of pore size and spectroelectrochemical response. <i>Faraday Discussions</i> , 2021, 233, 77-99.	1.6	7
81	Nanoengineering with RAFT polymers: from nanocomposite design to applications. <i>Polymer Chemistry</i> , 2021, 12, 6198-6229.	1.9	17
82	The selectivity of a polydimethylsiloxane-based triblock copolymer as the stationary phase for capillary gas chromatography. <i>New Journal of Chemistry</i> , 2021, 45, 20459-20467.	1.4	14
83	Interfacial Assembly and Applications of Functional Mesoporous Materials. <i>Chemical Reviews</i> , 2021, 121, 14349-14429.	23.0	151
84	Stabilizing Fe-N-C Catalysts as Model for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021, 8, e2102209.	5.6	102
85	Chemical Composition and Strain at Interfaces between Different Morphologies in Block Copolymer Thin Films. <i>Langmuir</i> , 2021, 37, 12723-12731.	1.6	2
86	Topology-transformable block copolymers based on a rotaxane structure: change in bulk properties with same composition. <i>Nature Communications</i> , 2021, 12, 6175.	5.8	10
87	High-Performance Supercapacitor Materials Based on Hierarchically Porous Carbons Derived from <i>Artocarpus heterophyllus</i> Seed. <i>ACS Applied Energy Materials</i> , 2021, 4, 12257-12266.	2.5	21
88	Synthesis and Self-Assembly of Conjugated Block Copolymers. <i>Polymers</i> , 2021, 13, 110.	2.0	15
89	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26528-26534.	7.2	147
90	Redox-active polymers: The magic key towards energy storage – a polymer design guideline progress in polymer science. <i>Progress in Polymer Science</i> , 2022, 125, 101474.	11.8	48

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91	Computational Design and Templated Synthesis of Porous Polyether Frameworks with N and O Adsorption Sites for Efficiently Chelating Heavy Metal Ions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 16267-16277.	1.8	6
92	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. <i>Angewandte Chemie</i> , 2021, 133, 26732-26738.	1.6	35
93	Mesoporous Carbon Materials for Electrochemical Energy Storage and Conversion. <i>ChemElectroChem</i> , 2022, 9, .	1.7	9
94	Solvothermal Synthesis of Monodisperse Porous Zirconia Spheres with Large Surface Area. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4435-4441.	1.0	3
95	Vertical Cylinder-to-Lamella Transition in Thin Block Copolymer Films Induced by In-Plane Electric Field. <i>Polymers</i> , 2021, 13, 3959.	2.0	5
96	Synthesis of Mesoporous Materials. <i>Engineering Materials</i> , 2022, , 113-173.	0.3	0
97	Mesoporous Zeolitic Imidazolate Frameworks. <i>CCS Chemistry</i> , 2022, 4, 2906-2913.	4.6	7
98	Review-Synthesis and Electrochemical Applications of Molybdenum Carbide: Recent Progress and Perspectives. <i>Journal of the Electrochemical Society</i> , 2022, 169, 016511.	1.3	31
99	Photoresponsive nanostructures of azobenzene-containing block copolymers at solid surfaces. <i>Polymer Chemistry</i> , 2022, 13, 411-419.	1.9	6
100	Recent advances on energy storage microdevices: From materials to configurations. <i>Energy Storage Materials</i> , 2022, 45, 741-767.	9.5	15
101	Template-free fabrication of magnetic mesoporous poly(ionic liquid)s: efficient interfacial catalysts for hydrogenation reaction and transesterification of soybean oil. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3531-3542.	5.2	15
102	Micelle-templating interfacial self-assembly of two-dimensional mesoporous nanosheets for sustainable H <sub>2</sub> O <sub>2</sub> electrosynthesis. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00398.	1.7	7
103	Double hydrophilic copolymers - synthetic approaches, architectural variety, and current application fields. <i>Chemical Society Reviews</i> , 2022, 51, 995-1044.	18.7	20
104	Cobalt(II)-Hexaazatriphenylene Hexacarbonitrile Coordination Compounds Based Cathode Materials with High Capacity and Long Cycle Stability. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
105	Mesoporous perovskite titanates via hydrothermal conversion. <i>Chemical Communications</i> , 2022, 58, 783-786.	2.2	0
107	Inverse design of two-dimensional structure by self-assembly of patchy particles. <i>Journal of Chemical Physics</i> , 2022, 156, 054901.	1.2	6
108	Fabrication of Nanodevices Through Block Copolymer Self-Assembly. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	2.4	15
109	Efficient Electrocatalytic Upgradation of Furan-Based Biomass: Key Roles of a Two-Dimensional Mesoporous Poly(m-phenylenediamine)-Graphene Heterostructure and a Ternary Electrolyte. <i>Macromolecules</i> , 0, , .	2.2	5



#	ARTICLE	IF	CITATIONS
110	Co Fe hydroxyoxalate nanosheets chemically bonded with reduced graphene oxide as High-performance anode for lithium-ion batteries. <i>Applied Surface Science</i> , 2022, 585, 152763.	3.1	11
111	Mesoporous Noble Metal–Metalloid/Nonmetal Alloy Nanomaterials: Designing Highly Efficient Catalysts. <i>ACS Nano</i> , 2021, 15, 18661-18670.	7.3	28
112	Tailored metal–organic tetrahedral nanocages with aggregation-induced emission for an anti-counterfeiting ink and stimulus-responsive luminescence. <i>New Journal of Chemistry</i> , 2022, 46, 8062-8068.	1.4	11
113	Self-assembly of fullerene C <sub>60</sub> -based amphiphiles in solutions. <i>Chemical Society Reviews</i> , 2022, 51, 3226-3242.	18.7	22
114	New Findings of Pseudocapacitive Behaviors in Cupric Tungstate Dihydrate. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3853-3863.	1.5	0
115	Recent progress of mesoporous carbons applied in electrochemical catalysis. <i>New Carbon Materials</i> , 2022, 37, 152-179.	2.9	13
116	Amphiphilic Block Copolymer Micelles for Gene Delivery. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1368-1379.	1.3	3
117	Block Copolymer Self-Assembly Guided Synthesis of Mesoporous Carbons with In-Plane Holey Pores for Efficient Oxygen Reduction Reaction. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100884.	2.0	9
118	Inverse Design of Materials by Machine Learning. <i>Materials</i> , 2022, 15, 1811.	1.3	28
119	Boosting capacitive performance of manganese oxide nanorods by decorating with three-dimensional crushed graphene. <i>Nano Convergence</i> , 2022, 9, 10.	6.3	23
120	Synthesis of mesoporous carbon materials from renewable plant polyphenols for environmental and energy applications. <i>New Carbon Materials</i> , 2022, 37, 196-222.	2.9	20
121	Block Copolymer Nanopatterning for Nonsemiconductor Device Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 12011-12037.	4.0	36
122	Luminescent Conjugated Microporous Polymers for Selective Sensing and Ultrafast Detection of Picric Acid. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2648-2655.	2.0	26
123	Amorphization of Pseudocapacitive Ta <sup>~</sup> Nb <sub>2</sub> O <sub>5</sub> Accelerates Lithium Diffusivity as Revealed Using Tunable Isomorphic Architectures. <i>Batteries and Supercaps</i> , 0, , .	2.4	3
124	Tumor-activated carrier-free prodrug nanoparticles for targeted cancer Immunotherapy: Preclinical evidence for safe and effective drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2022, 183, 114177.	6.6	67
125	Shaping Block Copolymer Microparticles by Positively Charged Polymeric Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200143.	2.0	1
126	Driving forces and molecular interactions in the self-assembly of block copolymers to form fiber-like micelles. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	11
127	A Study on the Self-Discharge Behavior of Zinc-Air Batteries with CuO Additives. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11675.	1.3	3



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128	Oxygen Reduction Reaction of Block Copolymer Template-Directed Porous Carbon Catalysts. ACS Applied Energy Materials, 2022, 5, 897-914.	2.5	4
129	Recent Advances in the Marriage of Catalyst Nanoparticles and Mesoporous Supports. Advanced Materials Interfaces, 2022, 9, .	1.9	10
130	Mesoporous carbons from self-assembled polymers. Journal of Polymer Science, 2022, 60, 2015-2042.	2.0	11
131	Interfacial Self-Assembly of Amphiphilic Core-Shell Bottlebrush Block Copolymers Toward Responsive Photonic Balls Bearing Ionic Channels. Macromolecular Rapid Communications, 2022, 43, e2200188.	2.0	6
133	Polypyrrole Cubosomes with Ordered Ultralarge Mesopore for Controllable Encapsulation and Release of Albumin. Nano Letters, 2022, 22, 3685-3690.	4.5	8
134	Polymersomes: From Macromolecular Self-Assembly to Particle Assembly.	2.6	17
135	Self-Generated Template Assisted Construction of Nitrogen Self-Doped Porous Carbon Nanoframework with Rich Planar Holes for High Energy Density Supercapacitor. Batteries and Supercaps, 2022, 5, .	2.4	2
136	Synthesis of Highly Porous Metal Oxide Nanoparticles for Adsorption Applications. ACS Applied Nano Materials, 2022, 5, 7078-7091.	2.4	7
137	Porous materials for capture and catalytic conversion of CO <sub>2</sub> at low concentration. Coordination Chemistry Reviews, 2022, 465, 214576.	9.5	74
138	Synthesizing ordered mesoporous Ni spheres with uniform and adjustable size through a one-step Pd <sup>2+</sup> -assisted soft-templating strategy. Nanoscale, 0, , .	2.8	0
139	Morphology-Controlled Mesopores with Hydrophilic Pore Walls from Triblock Copolymers. Macromolecules, 2022, 55, 4812-4820.	2.2	4
140	Constructing Unique Mesoporous Carbon Superstructures via Monomicelle Interface Confined Assembly. Journal of the American Chemical Society, 2022, 144, 11767-11777.	6.6	41
141	Noble-Metal-Based Hollow Mesoporous Nanoparticles: Synthesis Strategies and Applications. Advanced Materials, 2022, 34, .	11.1	44
142	Self-immolative Amphiphilic Diblock Copolymers with Individually Triggerable Blocks. ACS Polymers Au, 2022, 2, 313-323.	1.7	7
143	Engineering functional mesoporous materials from plant polyphenol based coordination polymers. Coordination Chemistry Reviews, 2022, 468, 214649.	9.5	39
144	Coordinated single-molecule micelles: a self-template approach for preparing mesoporous doped carbons. Nanoscale, 2022, 14, 11298-11304.	2.8	6
145	Structural control in the nanoassembly of the tungsten and molybdenum dithiolene complex analog. Reaction Chemistry and Engineering, 2022, 7, 2231-2239.	1.9	3
146	Photoluminescent polymer cubosomes prepared by RAFT-mediated polymerization-induced self-assembly. Polymer Chemistry, 2022, 13, 4333-4342.	1.9	10

#	ARTICLE	IF	CITATIONS
147	Predictive design of ordered mesoporous silica with well-defined, ultra-large mesopores. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 1318-1326.	1.7	2
148	Oriented self-assembly of metal-organic frameworks driven by photoinitiated monomer polymerization. <i>RSC Advances</i> , 2022, 12, 19406-19411.	1.7	4
149	A Versatile 3D-Confined Self-Assembly Strategy for Anisotropic and Ordered Mesoporous Carbon Microparticles. <i>Advanced Science</i> , 2022, 9, .	5.6	15
150	Interstitial boron-doped nanoporous palladium film for electro-reduction of nitrogen to ammonia. <i>Chemical Engineering Journal</i> , 2022, 449, 137771.	6.6	9
151	Soft Template-Based Synthesis of Mesoporous Phosphorus- and Boron-Codoped NiFe-Based Alloys for Efficient Oxygen Evolution Reaction. <i>Small</i> , 2022, 18, .	5.2	43
152	The Promise of Soft-Matter-Enabled Quantum Materials. <i>Advanced Materials</i> , 2023, 35, .	11.1	4
153	Hierarchically Porous MOFs Synthesized by Soft-Template Strategies. <i>Accounts of Chemical Research</i> , 2022, 55, 2235-2247.	7.6	57
154	Self-Assembled Materials and Applications. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	7
155	Designing Heterogeneous Surfaces of Two-Dimensional Nanosheets to Maximize Mechanical Reinforcing of Polymer Nanocomposites via Molecular Dynamics Simulation. <i>Macromolecules</i> , 2022, 55, 6620-6632.	2.2	1
156	Controlled polymerization for lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 52, 598-636.	9.5	4
157	Porous Polymer Cubosomes with Ordered Single Primitive Bicontinuous Architecture and Their Sodium-Iodine Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 15497-15508.	6.6	34
158	Hierarchically Porous and Orderly Mesostructured Carbon Nanorods with Excellent Supercapacitive Performance. <i>ACS Applied Nano Materials</i> , 2022, 5, 13384-13394.	2.4	4
159	Block copolymer templated synthesis of mesoporous WO <sub>3</sub> /carbon nanocomposites. <i>Journal of Materials Science</i> , 2022, 57, 14772-14779.	1.7	2
160	Mesoporous zinc platinate and platinum nanotubes: insights into the formation mechanism and their catalytic activity. <i>Materials Advances</i> , 0, , .	2.6	0
161	Gradient copolymers versus block copolymers: self-assembly in solution and surface adsorption. <i>Soft Matter</i> , 2022, 18, 6538-6549.	1.2	2
163	Stress-Regulation Design of Mesoporous Carbon Spheres Anodes with Radial Pore Channels Toward Ultrastable Potassium-Ion Batteries. <i>Small Science</i> , 2022, 2, .	5.8	11
164	Anisotropic assembly and fluorescence enhancement of conjugated polymer nanostructures. <i>View</i> , 2022, 3, .	2.7	7
165	Emulsion confined block copolymer self-assembly: Recent progress and prospect. <i>Nano Research</i> , 2023, 16, 564-582.	5.8	12

#	ARTICLE	IF	CITATIONS
166	Diazoacetates as Terminating Agents in Living Ring-Opening Metathesis Polymerization: Synthesis of Chain-End-Functionalized Polymers. <i>Macromolecules</i> , 2022, 55, 8866-8874.	2.2	2
167	Nonequilibrium Self-Assembly of Ultrahigh-Molecular-Weight Block Copolymers into an Asymmetric Nanostructure. <i>ACS Applied Polymer Materials</i> , 2022, 4, 7311-7320.	2.0	0
168	A Honeycomb-Like Porous Crystalline Hetero-Electrocatalyst for Efficient Electrochemical CO <sub>2</sub> Reduction. <i>Advanced Materials</i> , 2022, 34, .	11.1	40
169	Mesoporous biophotonic carbon spheres with tunable curvature for intelligent drug delivery. <i>Nanophotonics</i> , 2022, 11, 5165-5175.	2.9	2
170	Rare earth Y doping induced lattice strain of mesoporous PtPd nanospheres for alkaline oxygen reduction electrocatalysis. <i>Nanotechnology</i> , 2023, 34, 055401.	1.3	1
171	Solvent-Induced Swelling Behaviors of Microphase-Separated Polystyrene- <i>block</i> -Poly(ethylene Terephthalate) Fluorescence Microscopy. <i>Journal of Physical Chemistry B</i> , 2022, 126, 8338-8349.	1.2	2
172	Iminium-Bridged Resorcinol-Silane Networks and Their Pyrolyzed Derivatives as Electrode Materials for the Electrochemical Oxygen Reduction Reaction and Supercapacitors. <i>Langmuir</i> , 2022, 38, 12581-12593.	1.6	1
173	A Facile Strategy of Post-Impregnation to Fabricate Hierarchically Porous Carbons. <i>ACS Applied Energy Materials</i> , 2022, 5, 13327-13335.	2.5	0
174	Pyrrole-Containing ABA Triblock Brush Polymers as Dual Functional Molecules to Facilely Access Diverse Mesostructured Materials. <i>Macromolecules</i> , 2022, 55, 9282-9296.	2.2	3
175	Block Copolymer Self-Assembly Directed Synthesis of Porous Materials with Ordered Bicontinuous Structures and Their Potential Applications. <i>Advanced Materials</i> , 2023, 35, .	11.1	30
176	Control on Pt-containing ordered honeycomb mesoporous nanostructures via self-assembly of block copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 656, 130392.	2.3	0
177	Simple emulsion template method towards self-anticoagulant and high-efficiency carboxymethyl chitosan-based adsorbent for low-density lipoprotein from whole blood. <i>Journal of Colloid and Interface Science</i> , 2023, 631, 231-244.	5.0	7
178	Highly Conductive Solid Polymer Electrolytes by <i>para</i> -Fluoro/Thiol Clicked Diblock Copolymer Self-Assembly: Paving the Way for Nanostructured Materials for Lithium-Ion Conductivity. <i>ACS Applied Energy Materials</i> , 2022, 5, 15520-15528.	2.5	1
179	Off-center Mechanophore Activation in Block Copolymers. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
180	Off-center Mechanophore Activation in Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	7
181	Cobalt-, iron- and nitrogen-containing ordered mesoporous carbon-based catalysts for anion-exchange membrane fuel cell cathode. <i>Electrochimica Acta</i> , 2023, 439, 141676.	2.6	19
182	Solid polymer electrolytes of ionic liquids <i>via</i> a bicontinuous ion transport channel for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2023, 11, 1676-1683.	5.2	4
183	Stoichiometric metal nitration based novel green synthesis of mesoporous metal oxides and their enhanced heterogeneity. <i>Microporous and Mesoporous Materials</i> , 2023, 348, 112343.	2.2	1

#	ARTICLE	IF	CITATIONS
184	Synergy of Block Copolymers and Perovskites: Template Growth through Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11610-11621.	2.1	6
185	Mesoporous Carbon-Based Materials: A Review of Synthesis, Modification, and Applications. <i>Catalysts</i> , 2023, 13, 2.	1.6	16
186	Investigation of High-Performance Electrode Materials: Processing and Storage Mechanism. <i>Materials</i> , 2022, 15, 8987.	1.3	0
187	Selective Swelling of Polystyrene (PS)/Poly(dimethylsiloxane) (PDMS) Block Copolymers in Alkanes. <i>Macromolecules</i> , 2023, 56, 215-225.	2.2	3
188	Metal Organic Framework Cubosomes. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	9
189	Perovskite solar cell with SnO <sub>2</sub> mesoporous thin films as electron transport layer: facile fabrication, investigation of the effects of growth parameters. <i>EPJ Applied Physics</i> , 2023, 98, 1.	0.3	0
190	Mesoporous ZnO nanoparticles using gelatin + Pluronic F127 as a double colloidal system for methylene blue photodegradation. <i>Korean Journal of Chemical Engineering</i> , 2023, 40, 112-123.	1.2	5
191	Metal Organic Framework Cubosomes. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
192	Synthesis of reverse-selective nanoporous ultrafiltration membranes using dual phase separations of ionic liquid and Poly(ethylene glycol) from the gelating urea-linked covalent network. <i>Journal of Membrane Science</i> , 2023, 669, 121341.	4.1	2
193	Supramolecular Nanofibers via Protrusion Budding Interfacial Membrane. <i>Soft Matter</i> , 0, , .	1.2	0
194	Facile Fabrication of Monodisperse Micron-Sized Dual Janus Silica Particles with Asymmetric Morphology and Chemical Environment. <i>Small</i> , 2023, 19, .	5.2	4
196	Au-Loaded Superparamagnetic Mesoporous Bimetallic CoFeB Nanovehicles for Sensitive Autoantibody Detection. <i>ACS Nano</i> , 2023, 17, 3346-3357.	7.3	22
197	Direct Visualization of the Self-Alignment Process for Nanostructured Block Copolymer Thin Films by Transmission Electron Microscopy. <i>ACS Macro Letters</i> , 0, , 570-576.	2.3	1
198	Click chemistry-initiated highly uniform semi-interpenetrating polymer electrolyte with dual salts for high-performance lithium metal batteries. <i>Journal of Power Sources</i> , 2023, 565, 232884.	4.0	1
199	Temperature and molecular structure-dependent self-assembly of PS-b-PEO at the liquid/liquid interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 662, 131011.	2.3	1
200	Synthesis and Application of Mesoporous Materials: Process Status, Technical Problems, and Development Prospects: A Mini-Review. <i>Energy &amp; Fuels</i> , 2023, 37, 3413-3427.	2.5	10
201	Controllable assembly of nitrogen-doped mesoporous carbon with different pore structures onto CNTs for excellent lithium storage. <i>Nano Research</i> , 2023, 16, 3879-3887.	5.8	6
202	Tunable Polymer Nanoreactors from RAFT Polymerization-Induced Self-Assembly: Fabrication of Nanostructured Carbon-Coated Anatase as Battery Anode Materials with Variable Morphology and Porosity. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 12261-12272.	4.0	7

#	ARTICLE	IF	CITATIONS
203	Two-dimensional sandwich-like MXene-conductive polymer nanocomposite with in-plane cylindrical mesopores for long cycling lithium-sulfur batteries. <i>2D Materials</i> , 2023, 10, 024006.	2.0	1
204	Asymmetric Mesoporous Carbon Microparticles by 3D-Confined Self-Assembly of Block Copolymer/Homopolymer Blends and Selective Carbonization. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2023, 41, 787-793.	2.0	4
205	Swelling-Induced Structural Transformation Strategy: Controllable Synthesis of 2D Porous Polypyrrole/MXene Heterostructures with Tunable Pore Structures. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	2
206	Self-assembled nanoformulations of paclitaxel for enhanced cancer theranostics. <i>Acta Pharmaceutica Sinica B</i> , 2023, 13, 3252-3276.	5.7	7
207	Recent progress in block copolymer soft-template-assisted synthesis of versatile mesoporous materials for energy storage systems. <i>Journal of Materials Chemistry A</i> , 2023, 11, 7358-7386.	5.2	8
208	Triblock Azo copolymers: RAFT synthesis, properties, thin film self-assembly and applications. <i>Polymer-Plastics Technology and Materials</i> , 2022, 61, 726-750.	0.6	1
209	Organic-Inorganic Phenolic/POSS Hybrids Provide Highly Ordered Mesoporous Structures Templated by High Thermal Stability of PS- <i>b</i> -P4VP Diblock Copolymer. <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	5
210	Wet-Spun Porous Carbon Microfibers for Enhanced Electrochemical Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 17601-17611.	4.0	3
211	Micellar Nanoreactors Enabled Site-Selective Decoration of Pt Nanoparticles Functionalized Mesoporous SiO <sub>2</sub> /WO <sub>3</sub> Composites for Improved CO Sensing. <i>Small</i> , 2023, 19, .	5.2	4
212	High- $\chi$ diblock copolymers containing poly(vinylpyridine- <i>N</i> -oxide) segments. <i>Journal of Materials Chemistry A</i> , 2023, 11, 9846-9858.	5.2	2
213	Properties and molecular self-assembly of liquid crystalline hard-hard diblock and hard-soft-hard triblock copolymers influenced by Flory-Huggins interaction parameter and volume fraction of distinct segments. <i>Journal of Polymer Science</i> , 0, , .	2.0	0
217	Crystallization-Driven Solution-State Assembly of Conjugated Block Copolymers in Materials Science. <i>Macromolecules</i> , 2023, 56, 3474-3496.	2.2	4
226	Fast Fabrication of Porous Amphiphilic Polyamides via Nonconventional Evaporation Induced Phase Separation. <i>ACS Macro Letters</i> , 2023, 12, 697-702.	2.3	1
257	A convenient and large-scale fabrication of ordered micron-sized porous polyimide film. <i>New Journal of Chemistry</i> , 0, , .	1.4	0
260	Fluorescence-readout as a powerful macromolecular characterisation tool. <i>Chemical Science</i> , 2023, 14, 12815-12849.	3.7	0
265	Orthogonal polymerization of aziridine with cyclic carbonates for constructing amphiphilic block copolymers. <i>Polymer Chemistry</i> , 2023, 14, 5034-5039.	1.9	0
284	Nanostructured silica for enhanced fungicidal activity in agriculture. , 2024, , 349-373.		0
291	Molecular, supramolecular, and macromolecular engineering at hybrid mesoporous interfaces: choose your own nanoarchitectonic adventure. , 2024, , 453-517.		0

#	ARTICLE	IF	CITATIONS
292	Guidelines for the Design of Solid CO <sub>2</sub> Adsorbents for Mobile Carbon Capture in Heavy-Duty Vehicles: A Review. Korean Journal of Chemical Engineering, 2024, 41, 25-42.	1.2	0