Lei Xie

List of Publications by Year
in descending order

44 papers	1,303 citations	304743 22 h-index	377865 34 g-index
46 all docs	46 docs citations	46 times ranked	966 citing authors

#	Article	IF	Citations
1	An Efficient Way To Introduce Hierarchical Structure into Biomass-Based Hydrothermal Carbonaceous Materials. ACS Sustainable Chemistry and Engineering, 2014, 2, 2435-2441.	6.7	94
2	Implantable and Biodegradable Micro-Supercapacitor Based on a Superassembled Three-Dimensional Network Zn@PPy Hybrid Electrode. ACS Applied Materials & Interfaces, 2021, 13, 8285-8293.	8.0	92
3	Super-assembled core-shell mesoporous silica-metal-phenolic network nanoparticles for combinatorial photothermal therapy and chemotherapy. Nano Research, 2020, 13, 1013-1019.	10.4	69
4	Sustainable and scalable production of monodisperse and highly uniform colloidal carbonaceous spheres using sodium polyacrylate as the dispersant. Chemical Communications, 2014, 50, 12633-12636.	4.1	64
5	Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles. Journal of the American Chemical Society, 2022, 144, 1634-1646.	13.7	64
6	Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. Journal of the American Chemical Society, 2021, 143, 6922-6932.	13.7	61
7	Interfacial Superâ€Assembly of Ordered Mesoporous Carbonâ€Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperatureâ€and pHâ€Sensitive Smart Ion Transport. Angewandte Chemie - International Edition, 2021, 60, 26167-26176.	13.8	58
8	Carbon vacancy defect-activated Pt cluster for hydrogen generation. Journal of Materials Chemistry A, 2019, 7, 15364-15370.	10.3	57
9	Superassembly of Surface-Enriched Ru Nanoclusters from Trappingâ€“Bonding Strategy for Efficient Hydrogen Evolution. ACS Nano, 2022, 16, 7993-8004.	14.6	54
10	Interfacially Superâ€Assembled Asymmetric and H₂O₂ Sensitive Multilayerâ€Sandwich Magnetic Mesoporous Silica Nanomotors for Detecting and Removing Heavy Metal Ions. Advanced Functional Materials, 2021, 31, 2010694.	14.9	49
11	Superâ€Assembled Hierarchical Cellulose Aerogelâ€Gelatin Solid Electrolyte for Implantable and Biodegradable Zinc Ion Battery. Advanced Functional Materials, 2022, 32, .	14.9	48
12	Interfacial Super-Assembly of Ordered Mesoporous Silicaâ€“Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 8782-8793.	8.0	44
13	Biomass-derived ordered mesoporous carbon nano-ellipsoid encapsulated metal nanoparticles inside: ideal nanoreactors for shape-selective catalysis. Chemical Communications, 2020, 56, 229-232.	4.1	40
14	Biocatalytic metalâ€“organic framework nanomotors for active water decontamination. Chemical Communications, 2020, 56, 14837-14840.	4.1	34
15	Superâ€Assembled Hierarchical CoO Nanosheetsâ€Cu Foam Composites as Multiâ€Level Hosts for Highâ€Performance Lithium Metal Anodes. Small, 2021, 17, e2101301.	10.0	33
16	Sustainable and scalable synthesis of monodisperse carbon nanospheres and their derived superstructures. Green Chemistry, 2018, 20, 4596-4601.	9.0	31
17	Recent advances in the synthesis and applications of anisotropic carbon and silica-based nanoparticles. Nano Research, 2019, 12, 1267-1278.	10.4	30
18	Interfacial Superâ€Assembly of Tâ€Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. Small, 2021, 17, e2100141.	10.0	30

#	Article	IF	Citations
19	Recent Advances in Heterosilica-Based Micro/Nanomotors: Designs, Biomedical Applications, and Future Perspectives. Chemistry of Materials, 2021, 33, 3022-3046.	6.7	30
20	Annular Mesoporous Carbonaceous Nanospheres from Biomass-Derived Building Units with Enhanced Biological Interactions. Chemistry of Materials, 2019, 31, 7186-7191.	6.7	28
21	General Synergistic Capture-Bonding Superassembly of Atomically Dispersed Catalysts on Micropore-Vacancy Frameworks. Nano Letters, 2022, 22, 2889-2897.	9.1	27
22	Ligand-Mediated Spatially Controllable Superassembly of Asymmetric Hollow Nanotadpoles with Fine-Tunable Cavity as Smart H₂O₂-Sensitive Nanoswimmers. ACS Nano, 2021, 15, 11451-11460.	14.6	24
23	Cooperative Assembly of Asymmetric Carbonaceous Bivalve-Like Superstructures from Multiple Building Blocks. Research, 2018, 2018, 5807980.	5.7	23
24	Super-Assembled Chiral Mesostructured Heteromembranes for Smart and Sensitive Couple-Accelerated Enantioseparation. Journal of the American Chemical Society, 2022, 144, 13794-13805.	13.7	22
25	Interfacial Super-Assembly of Nanofluidic Heterochannels from Layered Graphene and Alumina Oxide Arrays for Label-Free Histamine-Specific Detection. Analytical Chemistry, 2021, 93, 2982-2987.	6.5	20
26	Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
27	Kinetics-controlled synthesis of hierarchically porous materials with tunable properties from diverse building blocks. Carbon, 2019, 155, 611-617.	10.3	16
28	Super-assembled sandwich-like Au@MSN@Ag nanomatrices for high-throughput and efficient detection of small biomolecules. Nano Research, 2022, 15, 2722-2733.	10.4	14
29	Interfacial Superassembly of Mesoporous Titania Nanopillar-Arrays/Alumina Oxide Heterochannels for Light- and pH-Responsive Smart Ion Transport. ACS Central Science, 2022, 8, 361-369.	11.3	14
30	Interfacial Superassembly of Light-Responsive Mechanism-Switchable Nanomotors with Tunable Mobility and Directionality. ACS Applied Materials & Interfaces, 2022, 14, 15517-15528.	8.0	14
31	Interfacial Assembly of Functional Mesoporous Carbonâ€Based Materials into Films for Batteries and Electrocatalysis. Advanced Materials Interfaces, 2022, 9, .	3.7	13
32	Interfacial Superâ€Assembly of Ordered Mesoporous Carbonâ€Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperatureâ€and pHâ€Sensitive Smart Ion Transport. Angewandte Chemie, 2021, 133, 26371-26380.	2.0	12
33	pHâ€Gated Activation of Gene Transcription and Translation in Biocatalytic Metalâ€“Organic Framework Artificial Cells. Advanced NanoBiomed Research, 2021, 1, 2000034.	3.6	11
34	Super-Assembled Periodic Mesoporous Organosilica Frameworks for Real-Time Hypoxia-Triggered Drug Release and Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 50246-50257.	8.0	11
35	Interfacially Super-Assembled Tyramine-Modified Mesoporous Silica-Alumina Oxide Heterochannels for Label-Free Tyrosinase Detection. Analytical Chemistry, 2022, 94, 2589-2596.	6.5	10
36	Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. ACS Central Science, 2021, 7, 318-326.	11.3	8

#	Article	IF	Citations
37	Interfacial assembly of functional mesoporous nanomatrices for laser desorption/ionization mass spectrometry. Nano Today, 2022, 42, 101365.	11.9	8
38	Super-assembly of freestanding graphene oxide-aramid fiber membrane with T-mode subnanochannels for sensitive ion transport. Analyst, The, 2022, 147, 652-660.	3.5	8
39	Interfacial Assembly of Nanowire Arrays toward Carbonaceous Mesoporous Nanorods and Superstructures. Small, 2022, 18, e2104477.	10.0	7
40	Super-assembled silica nanoprobes for intracellular Zn(<scp>ii</scp>) sensing and reperfusion injury treatment through in situ MOF crystallization. Analyst, The, 2021, 146, 6788-6797.	3.5	5
41	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation. Chemistry - A European Journal, 2022, 28, e202200307.	3.3	2
42	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation. Chemistry - A European Journal, 2022, 28, e202201278.	3.3	2
43	Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures. Angewandte Chemie, 0, , .	2.0	0
44	InnenrÃ¼cktitelbild: Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures (Angew. Chem. 12/2022). Angewandte Chemie, 2022, 134, .	2.0	0