

Yifeng Shi

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96
papers

12,069
citations

53
h-index

102
g-index

102
ext. papers

13,289
ext. citations

11.1
avg, IF

6.23
L-index

#	Paper	IF	Citations
96	Ordered mesoporous polymers and homologous carbon frameworks: amphiphilic surfactant templating and direct transformation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7053-9	16.4	1130
95	A Family of Highly Ordered Mesoporous Polymer Resin and Carbon Structures from Organic/Organic Self-Assembly. <i>Chemistry of Materials</i> , 2006 , 18, 4447-4464	9.6	931
94	Ordered mesoporous metallic MoO ₂ materials with highly reversible lithium storage capacity. <i>Nano Letters</i> , 2009 , 9, 4215-20	11.5	590
93	Triconstituent co-assembly to ordered mesostructured polymer-silica and carbon-silica nanocomposites and large-pore mesoporous carbons with high surface areas. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11652-62	16.4	539
92	Fabrication of Ag@SiO ₂ @Y ₂ O ₃ :Er nanostructures for bioimaging: tuning of the upconversion fluorescence with silver nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2850-1	16.4	435
91	Supramolecular Aggregates as Templates: Ordered Mesoporous Polymers and Carbons. <i>Chemistry of Materials</i> , 2008 , 20, 932-945	9.6	389
90	Ordered mesoporous silicas and carbons with large accessible pores templated from amphiphilic diblock copolymer poly(ethylene oxide)-b-polystyrene. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1690-7	16.4	354
89	Mesoporous multifunctional upconversion luminescent and magnetic "nanorattle" materials for targeted chemotherapy. <i>Nano Letters</i> , 2012 , 12, 61-7	11.5	340
88	Uniform nanostructured arrays of sodium rare-earth fluorides for highly efficient multicolor upconversion luminescence. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7976-9	16.4	323
87	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. <i>Joule</i> , 2018 , 2, 1171-1186	27.8	321
86	Nitrogen-containing carbon spheres with very large uniform mesopores: The superior electrode materials for EDLC in organic electrolyte. <i>Carbon</i> , 2007 , 45, 1757-1763	10.4	302
85	Ordered mesoporous non-oxide materials. <i>Chemical Society Reviews</i> , 2011 , 40, 3854-78	58.5	296
84	Designed synthesis of mesoporous solids via nonionic-surfactant-templating approach. <i>Chemical Communications</i> , 2007 , 897-926	5.8	279
83	Ordered Mesoporous Polymers and Homologous Carbon Frameworks: Amphiphilic Surfactant Templating and Direct Transformation. <i>Angewandte Chemie</i> , 2005 , 117, 7215-7221	3.6	262
82	Highly Ordered Mesoporous Crystalline MoSe ₂ Material with Efficient Visible-Light-Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. <i>Advanced Functional Materials</i> , 2013 , 23, 1832-1838	15.6	249
81	Nitrogen enriched mesoporous carbon spheres obtained by a facile method and its application for electrochemical capacitor. <i>Electrochemistry Communications</i> , 2007 , 9, 569-573	5.1	241
80	Controllable and repeatable synthesis of thermally stable anatase nanocrystal-silica composites with highly ordered hexagonal mesostructures. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13894-904	16.4	216

79	Synthesis and Lithium Storage Mechanism of Ultrafine MoO ₂ Nanorods. <i>Chemistry of Materials</i> , 2012 , 24, 457-463	9.6	201
78	Highly Ordered Mesoporous Silicon Carbide Ceramics with Large Surface Areas and High Stability. <i>Advanced Functional Materials</i> , 2006 , 16, 561-567	15.6	187
77	Formation Mechanism of Porous Single-Crystal Cr ₂ O ₃ and Co ₃ O ₄ Templated by Mesoporous Silica. <i>Chemistry of Materials</i> , 2006 , 18, 3088-3095	9.6	176
76	Lithium storage performance in ordered mesoporous MoS ₂ electrode material. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 418-423	5.3	163
75	Controlled Synthesis of Ordered Mesoporous TiO ₂ Nanocomposites with Crystalline Titania Frameworks from Organic-Inorganic Amphiphilic Coassembly. <i>Chemistry of Materials</i> , 2008 , 20, 1140-1148	9.6	163
74	Fluorescence upconversion microbarcodes for multiplexed biological detection: nucleic acid encoding. <i>Advanced Materials</i> , 2011 , 23, 3775-9	24	154
73	Nature-Inspired, 3D Origami Solar Steam Generator toward Near Full Utilization of Solar Energy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28517-28524	9.5	150
72	Container effect in nanocasting synthesis of mesoporous metal oxides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14542-5	16.4	150
71	Solar Evaporator with Controlled Salt Precipitation for Zero Liquid Discharge Desalination. <i>Environmental Science & Technology</i> , 2018 , 52, 11822-11830	10.3	136
70	Synthesis of highly ordered mesoporous crystalline WS ₂ and MoS ₂ via a high-temperature reductive sulfuration route. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9522-31	16.4	134
69	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. <i>Environmental Science & Technology</i> , 2018 , 52, 11367-11377	10.3	131
68	Simultaneous production of fresh water and electricity via multistage solar photovoltaic membrane distillation. <i>Nature Communications</i> , 2019 , 10, 3012	17.4	129
67	Formation of Hollow Upconversion Rare-Earth Fluoride Nanospheres: Nanoscale Kirkendall Effect During Ion Exchange. <i>Chemistry of Materials</i> , 2009 , 21, 5237-5243	9.6	128
66	Anionic surfactant induced mesophase transformation to synthesize highly ordered large-pore mesoporous silica structures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1511		123
65	A highly flexible and washable nonwoven photothermal cloth for efficient and practical solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7942-7949	13	118
64	Two-Dimensional Ti ₃ C ₂ MXene Membranes as Nanofluidic Osmotic Power Generators. <i>ACS Nano</i> , 2019 , 13, 8917-8925	16.7	117
63	Morphology-selective synthesis of mesoporous SBA-15 particles over micrometer, submicrometer and nanometer scales. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8483		111
62	Magnetic permanently confined micelle arrays for treating hydrophobic organic compound contamination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 182-8	16.4	107

61	VO ₂ (B) nanorods: solvothermal preparation, electrical properties, and conversion to rutile VO ₂ and V ₂ O ₃ . <i>Journal of Materials Chemistry</i> , 2009 , 19, 4362		104
60	Low-temperature pseudomorphic transformation of ordered hierarchical macro-mesoporous SiO ₂ /C nanocomposite to SiC via magnesiothermic reduction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5552-3	16.4	101
59	Surfactant-free synthesis of Bi ₂ Te ₃ -Te micro-nano heterostructure with enhanced thermoelectric figure of merit. <i>ACS Nano</i> , 2011 , 5, 3158-65	16.7	96
58	Synthesis of Self-Supported Ordered Mesoporous Cobalt and Chromium Nitrides. <i>Advanced Functional Materials</i> , 2008 , 18, 2436-2443	15.6	96
57	Harvesting Water from Air: Using Anhydrous Salt with Sunlight. <i>Environmental Science & Technology</i> , 2018 , 52, 5398-5406	10.3	93
56	Silver-based intermetallic heterostructures in Sb ₂ Te ₃ thick films with enhanced thermoelectric power factors. <i>Nano Letters</i> , 2012 , 12, 1075-80	11.5	89
55	Multi-functional 3D honeycomb ceramic plate for clean water production by heterogeneous photo-Fenton reaction and solar-driven water evaporation. <i>Nano Energy</i> , 2019 , 60, 222-230	17.1	88
54	Rare-earth upconverting nanobarcodes for multiplexed biological detection. <i>Small</i> , 2011 , 7, 1972-6	11	87
53	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9192-9199	13	86
52	Nonionic Block Copolymer and Anionic Mixed Surfactants Directed Synthesis of Highly Ordered Mesoporous Silica with Bicontinuous Cubic Structure. <i>Chemistry of Materials</i> , 2005 , 17, 3228-3234	9.6	83
51	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. <i>Nano Energy</i> , 2020 , 67, 104255	17.1	83
50	Spectrally Selective Smart Window with High Near-Infrared Light Shielding and Controllable Visible Light Transmittance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39819-39827	9.5	80
49	Three-dimensional low symmetry mesoporous silica structures templated from tetra-headgroup rigid bolaform quaternary ammonium surfactant. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6780-7	16.4	77
48	Photoluminescence modification in upconversion rare-earth fluoride nanocrystal array constructed photonic crystals. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3895		70
47	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. <i>Nature Communications</i> , 2018 , 9, 3132	17.4	60
46	Photovoltaic panel cooling by atmospheric water sorption-evaporation cycle. <i>Nature Sustainability</i> , 2020 , 3, 636-643	22.1	57
45	Enhanced Li storage performance of ordered mesoporous MoO ₂ via tungsten doping. <i>Nanoscale</i> , 2012 , 4, 1541-4	7.7	57
44	Ordered Mesoporous SiOC and SiCN Ceramics from Atmosphere-Assisted in Situ Transformation. <i>Chemistry of Materials</i> , 2007 , 19, 1761-1771	9.6	54

43	The influence of carbon source on the wall structure of ordered mesoporous carbons. <i>Journal of Porous Materials</i> , 2008 , 15, 601-611	2.4	53
42	Sunlight Induced Rapid Oil Absorption and Passive Room-Temperature Release: An Effective Solution toward Heavy Oil Spill Cleanup. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800412	4.6	45
41	Nanocasting synthesis of ordered mesoporous crystalline WSe ₂ as anode material for Li-ion batteries. <i>Materials Letters</i> , 2014 , 136, 191-194	3.3	43
40	Designing a next generation solar crystallizer for real seawater brine treatment with zero liquid discharge. <i>Nature Communications</i> , 2021 , 12, 998	17.4	42
39	Uniform Nanostructured Arrays of Sodium Rare-Earth Fluorides for Highly Efficient Multicolor Upconversion Luminescence. <i>Angewandte Chemie</i> , 2007 , 119, 8122-8125	3.6	41
38	Ordered Mesostructured Rare-Earth Fluoride Nanowire Arrays with Upconversion Fluorescence. <i>Chemistry of Materials</i> , 2008 , 20, 3778-3784	9.6	38
37	Nanocasting Synthesis of Ordered Mesoporous Silicon Nitrides with a High Nitrogen Content. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 112-116	3.8	38
36	A Robust CuCr ₂ O ₄ /SiO ₂ Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700145	5.9	31
35	Tannin-inspired robust fabrication of superwettability membranes for highly efficient separation of oil-in-water emulsions and immiscible oil/water mixtures. <i>Separation and Purification Technology</i> , 2019 , 227, 115657	8.3	29
34	Ordered Mesoporous Crystalline Mo-Doped WO ₂ Materials with High Tap Density as Anode Material for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 608-617	9.6	29
33	A facile strategy for the preparation of well-dispersed bimetal oxide CuFe ₂ O ₄ nanoparticles supported on mesoporous silica. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6742	13	27
32	SiO ₂ Composite as a Highly Stable and Easily Regenerable Photothermal Material for Practical Water Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8192-8200	8.3	27
31	Mesoporous silica KIT-6 supported superparamagnetic CuFe ₂ O ₄ nanoparticles for catalytic asymmetric hydrosilylation of ketones in air. <i>Green Chemistry</i> , 2014 , 16, 2680-2688	10	24
30	Mesoporous delafossite CuCrO ₃ and spinel CuCr ₂ O ₄ synthesis and catalysis. <i>Nanotechnology</i> , 2013 , 24, 345704	3.4	21
29	Silicon-Based Thermoelectrics Made from a Boron-Doped Silicon Dioxide Nanocomposite. <i>Chemistry of Materials</i> , 2013 , 25, 4867-4873	9.6	20
28	Preparation of Macroporous Sol-Gel Bioglass Using PVA Particles as Pore Former. <i>Journal of Sol-Gel Science and Technology</i> , 2004 , 30, 49-61	2.3	20
27	2D Single Crystal WSe ₂ and MoSe ₂ Nanomeshes with Quantifiable High Exposure of Layer Edges from 3D Mesoporous Silica Template. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17670-17677	9.5	19
26	Hollow spherical SiO ₂ micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1887-1895	13	19

25	Polydopamine as a Versatile Adhesive Layer for Robust Fabrication of Smart Surface with Switchable Wettability for Effective Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4838-4843	3.9	18
24	Metal- and halide-free, solid-state polymeric water vapor sorbents for efficient water-sorption-driven cooling and atmospheric water harvesting. <i>Materials Horizons</i> , 2021 , 8, 1518-1527	14.4	18
23	Synthesis of ordered mesoporous crystalline CuS and Ag ₂ S materials via cation exchange reaction. <i>Nanoscale</i> , 2015 , 7, 4468-74	7.7	17
22	Integrated solar-driven PV cooling and seawater desalination with zero liquid discharge. <i>Joule</i> , 2021 , 5, 1873-1887	27.8	17
21	Mesoporous Silica-Supported CuCo ₂ O ₄ Mixed-Metal Oxides for the Aerobic Oxidation of Alcohols. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4435-4442	5.6	16
20	High performance separation of aerosol sprayed mesoporous TiO ₂ sub-microspheres from aggregates via density gradient centrifugation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4162		16
19	Micelle swelling agent derived cavities for increasing hydrophobic organic compound removal efficiency by mesoporous micelle@silica hybrid materials. <i>Microporous and Mesoporous Materials</i> , 2012 , 155, 252-257	5.3	15
18	Preferential water condensation on superhydrophobic nano-cones array. <i>Applied Physics Letters</i> , 2018 , 113, 211601	3.4	15
17	Nanocasting synthesis of ordered mesoporous indium tin oxide (ITO) materials with controllable particle size and high thermal stability. <i>Journal of Alloys and Compounds</i> , 2012 , 545, 5-11	5.7	14
16	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. <i>Nano Letters</i> , 2021 , 21, 5068-5074	11.5	14
15	An Integrated Photocatalytic and Photothermal Process for Solar-Driven Efficient Purification of Complex Contaminated Water. <i>Energy Technology</i> , 2020 , 8, 2000456	3.5	11
14	Facile synthesis of mesoporous Ge/C nanocomposite as anode material for lithium-ion battery. <i>Materials Letters</i> , 2014 , 124, 73-76	3.3	10
13	Hybrid water vapor sorbent design with pollution shielding properties: extracting clean water from polluted bulk water sources. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14731-14740	13	9
12	A "teardown" method to create large mesotunnels on the pore walls of ordered mesoporous silica. <i>Journal of Colloid and Interface Science</i> , 2008 , 328, 338-43	9.3	7
11	Green and economical synthesis of carbon-coated MoO ₂ nanocrystallines with highly reversible lithium storage capacity. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4278-85	1.3	6
10	Composite Materials: A Robust CuCr ₂ O ₄ /SiO ₂ Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation (Adv. Sustainable Syst. 3/2018). <i>Advanced Sustainable Systems</i> , 2018 , 2, 1870026	5.9	4
9	High-resolution electron microscopy study of mesoporous dichalcogenides and their hydrogen storage properties. <i>Nanotechnology</i> , 2011 , 22, 075702	3.4	4
8	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermoresponsive Hydrogel. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1747-1755	4.3	4

7	One-step nanocasting synthesis of crystalline mesoporous CoO without using reducing agent. <i>Materials Letters</i> , 2013 , 110, 65-68	3.3	3
6	Tuning substrate geometry for enhancing water condensation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118627	4.9	2
5	Synthesis of 2D single crystal WSe ₂ /C nanostripe array as anode material for Na-ion batteries. <i>Materials Letters</i> , 2020 , 273, 127949	3.3	2
4	Conversion and storage of solar energy for cooling. <i>Energy and Environmental Science</i> ,	35.4	2
3	Visible light-driven oxidative coupling of dibenzylamine and substituted anilines with a 2D WSe nanomesh material. <i>Nanoscale</i> , 2020 , 12, 21869-21878	7.7	1
2	Synthesis of MoTe ₂ nanowire as an efficient hydrogen evolution reaction material. <i>Materials Letters</i> , 2021 , 290, 129471	3.3	1
1	Luminescent disordered nanostructures: synthesis and characterization of CdSe nano-agglomerates. <i>Frontiers of Optoelectronics</i> , 2018 , 11, 385-393	2.8	