Yifeng Shi

List of Publications by Year in Descending Order

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	Synthesis of MoTe2 nanowire as an efficient hydrogen evolution reaction material. *Materials Letters*, **2021**, 290, 129471	3.3	1
95	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. *Nano Letters*, **2021**, 21, 5068-5074	11.5	14
94	Integrated solar-driven PV cooling and seawater desalination with zero liquid discharge. *Joule*, **2021**, 5, 1873-1887	27.8	17
93	Metal- and halide-free, solid-state polymeric water vapor sorbents for efficient water-sorption-driven cooling and atmospheric water harvesting. *Materials Horizons*, **2021**, 8, 1518-1527	14.4	18
92	Designing a next generation solar crystallizer for real seawater brine treatment with zero liquid discharge. *Nature Communications*, **2021**, 12, 998	17.4	42
91	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermoresponsive Hydrogel. *ACS Applied Polymer Materials*, **2021**, 3, 1747-1755	4.3	4
90	Hybrid water vapor sorbent design with pollution shielding properties: extracting clean water from polluted bulk water sources. *Journal of Materials Chemistry A*, **2021**, 9, 14731-14740	13	9
89	Photovoltaic panel cooling by atmospheric water sorption–evaporation cycle. *Nature Sustainability*, **2020**, 3, 636-643	22.1	57
88	Synthesis of 2D single crystal WSe2/C nanostripe array as anode material for Na-ion batteries. *Materials Letters*, **2020**, 273, 127949	3.3	2
87	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. *Nano Energy*, **2020**, 67, 104255	17.1	83
86	Hollow spherical SiO2 micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. *Journal of Materials Chemistry A*, **2020**, 8, 1887-1895	13	19
85	Visible light-driven oxidative coupling of dibenzylamine and substituted anilines with a 2D WSe nanomesh material. *Nanoscale*, **2020**, 12, 21869-21878	7.7	1
84	An Integrated Photocatalytic and Photothermal Process for Solar-Driven Efficient Purification of Complex Contaminated Water. *Energy Technology*, **2020**, 8, 2000456	3.5	11
83	Tuning substrate geometry for enhancing water condensation. *International Journal of Heat and Mass Transfer*, **2019**, 144, 118627	4.9	2
82	Mesoporous Silica-Supported CuCo2O4 Mixed-Metal Oxides for the Aerobic Oxidation of Alcohols. *ACS Applied Nano Materials*, **2019**, 2, 4435-4442	5.6	16
81	Tannin-inspired robust fabrication of superwettability membranes for highly efficient separation of oil-in-water emulsions and immiscible oil/water mixtures. *Separation and Purification Technology*, **2019**, 227, 115657	8.3	29
80	2D Single Crystal WSe and MoSe Nanomeshes with Quantifiable High Exposure of Layer Edges from 3D Mesoporous Silica Template. *ACS Applied Materials & Interfaces*, **2019**, 11, 17670-17677	9.5	19

79	Polydopamine as a Versatile Adhesive Layer for Robust Fabrication of Smart Surface with Switchable Wettability for Effective Oil/Water Separation. *Industrial & Engineering Chemistry Research*, **2019**, 58, 4838-4843	3.9	18
78	Multi-functional 3D honeycomb ceramic plate for clean water production by heterogeneous photo-Fenton reaction and solar-driven water evaporation. *Nano Energy*, **2019**, 60, 222-230	17.1	88
77	Two-Dimensional TiCT MXene Membranes as Nanofluidic Osmotic Power Generators. *ACS Nano*, **2019**, 13, 8917-8925	16.7	117
76	Simultaneous production of fresh water and electricity via multistage solar photovoltaic membrane distillation. *Nature Communications*, **2019**, 10, 3012	17.4	129
75	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. *Journal of Materials Chemistry A*, **2018**, 6, 9192-9199	13	86
74	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. *Joule*, **2018**, 2, 1171-1186	27.8	321
73	A Robust CuCr2O4/SiO2 Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation. *Advanced Sustainable Systems* , **2018**, 2, 1700145	5.9	31
72	A highly flexible and washable nonwoven photothermal cloth for efficient and practical solar steam generation. *Journal of Materials Chemistry A*, **2018**, 6, 7942-7949	13	118
71	Harvesting Water from Air: Using Anhydrous Salt with Sunlight. *Environmental Science & Technology*, **2018**, 52, 5398-5406	10.3	93
70	Composite Materials: A Robust CuCr2O4/SiO2 Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation (Adv. Sustainable Syst. 3/2018). *Advanced Sustainable Systems*, **2018**, 2, 1870026	5.9	4
69	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. *Nature Communications*, **2018**, 9, 3132	17.4	60
68	Luminescent disordered nanostructures: synthesis and characterization of CdSe nano-agglomerates. *Frontiers of Optoelectronics*, **2018**, 11, 385-393	2.8	
67	Nature-Inspired, 3D Origami Solar Steam Generator toward Near Full Utilization of Solar Energy. *ACS Applied Materials & Interfaces*, **2018**, 10, 28517-28524	9.5	150
66	Preferential water condensation on superhydrophobic nano-cones array. *Applied Physics Letters*, **2018**, 113, 211601	3.4	15
65	Spectrally Selective Smart Window with High Near-Infrared Light Shielding and Controllable Visible Light Transmittance. *ACS Applied Materials & Interfaces*, **2018**, 10, 39819-39827	9.5	80
64	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. *Environmental Science & Technology*, **2018**, 52, 11367-11377	10.3	131
63	Solar Evaporator with Controlled Salt Precipitation for Zero Liquid Discharge Desalination. *Environmental Science & Technology*, **2018**, 52, 11822-11830	10.3	136
62	Sunlight Induced Rapid Oil Absorption and Passive Room-Temperature Release: An Effective Solution toward Heavy Oil Spill Cleanup. *Advanced Materials Interfaces*, **2018**, 5, 1800412	4.6	45

61	SiC Composite as a Highly Stable and Easily Regenerable Photothermal Material for Practical Water Evaporation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8192-8200	8.3	27
60	Ordered Mesoporous Crystalline Mo-Doped WO2 Materials with High Tap Density as Anode Material for Lithium Ion Batteries. *Chemistry of Materials*, **2016**, 28, 608-617	9.6	29
59	Synthesis of ordered mesoporous crystalline CuS and Ag2S materials via cation exchange reaction. *Nanoscale*, **2015**, 7, 4468-74	7.7	17
58	Mesoporous silica KIT-6 supported superparamagnetic CuFe2O4 nanoparticles for catalytic asymmetric hydrosilylation of ketones in air. *Green Chemistry*, **2014**, 16, 2680-2688	10	24
57	Facile synthesis of mesoporous Ge/C nanocomposite as anode material for lithium-ion battery. *Materials Letters*, **2014**, 124, 73-76	3.3	10
56	Nanocasting synthesis of ordered mesoporous crystalline WSe 2 as anode material for Li-ion batteries. *Materials Letters*, **2014**, 136, 191-194	3.3	43
55	Green and economical synthesis of carbon-coated MoO2 nanocrystallines with highly reversible lithium storage capacity. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 4278-85	1.3	6
54	One-step nanocasting synthesis of crystalline mesoporous CoO without using reducing agent. *Materials Letters*, **2013**, 110, 65-68	3.3	3
53	Mesoporous delafossite CuCrO and spinel CuCr synthesis and catalysis. *Nanotechnology*, **2013**, 24, 345704	3.4	21
52	Highly Ordered Mesoporous Crystalline MoSe2 Material with Efficient Visible-Light-Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. *Advanced Functional Materials*, **2013**, 23, 1832-1838	15.6	249
51	A facile strategy for the preparation of well-dispersed bimetal oxide CuFe2O4 nanoparticles supported on mesoporous silica. *Journal of Materials Chemistry A*, **2013**, 1, 6742	13	27
50	Silicon-Based Thermoelectrics Made from a Boron-Doped Silicon Dioxide Nanocomposite. *Chemistry of Materials*, **2013**, 25, 4867-4873	9.6	20
49	Lithium storage performance in ordered mesoporous MoS2 electrode material. *Microporous and Mesoporous Materials*, **2012**, 151, 418-423	5.3	163
48	Micelle swelling agent derived cavities for increasing hydrophobic organic compound removal efficiency by mesoporous micelle@silica hybrid materials. *Microporous and Mesoporous Materials*, **2012**, 155, 252-257	5.3	15
47	Synthesis and Lithium Storage Mechanism of Ultrafine MoO2 Nanorods. *Chemistry of Materials*, **2012**, 24, 457-463	9.6	201
46	Nanocasting synthesis of ordered mesoporous indium tin oxide (ITO) materials with controllable particle size and high thermal stability. *Journal of Alloys and Compounds*, **2012**, 545, 5-11	5.7	14
45	Enhanced Li storage performance of ordered mesoporous MoO2 via tungsten doping. *Nanoscale*, **2012**, 4, 1541-4	7.7	57
44	Silver-based intermetallic heterostructures in Sb2Te3 thick films with enhanced thermoelectric power factors. *Nano Letters*, **2012**, 12, 1075-80	11.5	89

43	Mesoporous multifunctional upconversion luminescent and magnetic "nanorattle" materials for targeted chemotherapy. *Nano Letters*, **2012**, 12, 61-7	11.5	340
42	Container effect in nanocasting synthesis of mesoporous metal oxides. *Journal of the American Chemical Society*, **2011**, 133, 14542-5	16.4	150
41	Surfactant-free synthesis of Bi2Te3-Te micro-nano heterostructure with enhanced thermoelectric figure of merit. *ACS Nano*, **2011**, 5, 3158-65	16.7	96
40	Ordered mesoporous non-oxide materials. *Chemical Society Reviews*, **2011**, 40, 3854-78	58.5	296
39	Rare-earth upconverting nanobarcodes for multiplexed biological detection. *Small*, **2011**, 7, 1972-6	11	87
38	Fluorescence upconversion microbarcodes for multiplexed biological detection: nucleic acid encoding. *Advanced Materials*, **2011**, 23, 3775-9	24	154
37	High-resolution electron microscopy study of mesoporous dichalcogenides and their hydrogen storage properties. *Nanotechnology*, **2011**, 22, 075702	3.4	4
36	High performance separation of aerosol sprayed mesoporous TiO2 sub-microspheres from aggregates via density gradient centrifugation. *Journal of Materials Chemistry*, **2010**, 20, 4162		16
35	Morphology-selective synthesis of mesoporous SBA-15 particles over micrometer, submicrometer and nanometer scales. *Journal of Materials Chemistry*, **2010**, 20, 8483		111
34	Fabrication of Ag@SiO(2)@Y(2)O(3):Er nanostructures for bioimaging: tuning of the upconversion fluorescence with silver nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 2850-1	16.4	435
33	Photoluminescence modification in upconversion rare-earth fluoride nanocrystal array constructed photonic crystals. *Journal of Materials Chemistry*, **2010**, 20, 3895		70
32	Low-temperature pseudomorphic transformation of ordered hierarchical macro-mesoporous SiO2/C nanocomposite to SiC via magnesiothermic reduction. *Journal of the American Chemical Society*, **2010**, 132, 5552-3	16.4	101
31	Ordered mesoporous metallic MoO2 materials with highly reversible lithium storage capacity. *Nano Letters*, **2009**, 9, 4215-20	11.5	590
30	Magnetic permanently confined micelle arrays for treating hydrophobic organic compound contamination. *Journal of the American Chemical Society*, **2009**, 131, 182-8	16.4	107
29	VO2(B) nanorods: solvothermal preparation, electrical properties, and conversion to rutile VO2 and V2O3. *Journal of Materials Chemistry*, **2009**, 19, 4362		104
28	Formation of Hollow Upconversion Rare-Earth Fluoride Nanospheres: Nanoscale Kirkendall Effect During Ion Exchange. *Chemistry of Materials*, **2009**, 21, 5237-5243	9.6	128
27	Ordered Mesostructured Rare-Earth Fluoride Nanowire Arrays with Upconversion Fluorescence. *Chemistry of Materials*, **2008**, 20, 3778-3784	9.6	38
26	Nanocasting Synthesis of Ordered Mesoporous Silicon Nitrides with a High Nitrogen Content. *Journal of Physical Chemistry C*, **2008**, 112, 112-116	3.8	38

25	Supramolecular Aggregates as Templates: Ordered Mesoporous Polymers and Carbons. *Chemistry of Materials*, **2008**, 20, 932-945	9.6	389
24	Controlled Synthesis of Ordered Mesoporous C–TiO2 Nanocomposites with Crystalline Titania Frameworks from Organic–Inorganic–Amphiphilic Coassembly. *Chemistry of Materials*, **2008**, 20, 1140-1146	9.6	163
23	The influence of carbon source on the wall structure of ordered mesoporous carbons. *Journal of Porous Materials*, **2008**, 15, 601-611	2.4	53
22	Synthesis of Self-Supported Ordered Mesoporous Cobalt and Chromium Nitrides. *Advanced Functional Materials*, **2008**, 18, 2436-2443	15.6	96
21	A "teardown" method to create large mesotunnels on the pore walls of ordered mesoporous silica. *Journal of Colloid and Interface Science*, **2008**, 328, 338-43	9.3	7
20	Ordered Mesoporous SiOC and SiCN Ceramics from Atmosphere-Assisted in Situ Transformation. *Chemistry of Materials*, **2007**, 19, 1761-1771	9.6	54
19	Uniform nanostructured arrays of sodium rare-earth fluorides for highly efficient multicolor upconversion luminescence. *Angewandte Chemie - International Edition*, **2007**, 46, 7976-9	16.4	323
18	Uniform Nanostructured Arrays of Sodium Rare-Earth Fluorides for Highly Efficient Multicolor Upconversion Luminescence. *Angewandte Chemie*, **2007**, 119, 8122-8125	3.6	41
17	Nitrogen-containing carbon spheres with very large uniform mesopores: The superior electrode materials for EDLC in organic electrolyte. *Carbon*, **2007**, 45, 1757-1763	10.4	302
16	Nitrogen enriched mesoporous carbon spheres obtained by a facile method and its application for electrochemical capacitor. *Electrochemistry Communications*, **2007**, 9, 569-573	5.1	241
15	Designed synthesis of mesoporous solids via nonionic-surfactant-templating approach. *Chemical Communications*, **2007**, 897-926	5.8	279
14	Synthesis of highly ordered mesoporous crystalline WS(2) and MoS(2) via a high-temperature reductive sulfuration route. *Journal of the American Chemical Society*, **2007**, 129, 9522-31	16.4	134
13	Ordered mesoporous silicas and carbons with large accessible pores templated from amphiphilic diblock copolymer poly(ethylene oxide)-b-polystyrene. *Journal of the American Chemical Society*, **2007**, 129, 1690-7	16.4	354
12	Controllable and repeatable synthesis of thermally stable anatase nanocrystal-silica composites with highly ordered hexagonal mesostructures. *Journal of the American Chemical Society*, **2007**, 129, 13894-904	16.4	216
11	Highly Ordered Mesoporous Silicon Carbide Ceramics with Large Surface Areas and High Stability. *Advanced Functional Materials*, **2006**, 16, 561-567	15.6	187
10	Anionic surfactant induced mesophase transformation to synthesize highly ordered large-pore mesoporous silica structures. *Journal of Materials Chemistry*, **2006**, 16, 1511		123
9	Triconstituent co-assembly to ordered mesostructured polymer-silica and carbon-silica nanocomposites and large-pore mesoporous carbons with high surface areas. *Journal of the American Chemical Society*, **2006**, 128, 11652-62	16.4	539
8	Formation Mechanism of Porous Single-Crystal Cr2O3 and Co3O4 Templated by Mesoporous Silica. *Chemistry of Materials*, **2006**, 18, 3088-3095	9.6	176

7	A Family of Highly Ordered Mesoporous Polymer Resin and Carbon Structures from Organic□Organic Self-Assembly. *Chemistry of Materials*, **2006**, 18, 4447-4464	9.6	931
6	Three-dimensional low symmetry mesoporous silica structures templated from tetra-headgroup rigid bolaform quaternary ammonium surfactant. *Journal of the American Chemical Society*, **2005**, 127, 6780-7	16.4	77
5	Nonionic Block Copolymer and Anionic Mixed Surfactants Directed Synthesis of Highly Ordered Mesoporous Silica with Bicontinuous Cubic Structure. *Chemistry of Materials*, **2005**, 17, 3228-3234	9.6	83
4	Ordered mesoporous polymers and homologous carbon frameworks: amphiphilic surfactant templating and direct transformation. *Angewandte Chemie - International Edition*, **2005**, 44, 7053-9	16.4	1130
3	Ordered Mesoporous Polymers and Homologous Carbon Frameworks: Amphiphilic Surfactant Templating and Direct Transformation. *Angewandte Chemie*, **2005**, 117, 7215-7221	3.6	262
2	Preparation of Macroporous Sol-Gel Bioglass Using PVA Particles as Pore Former. *Journal of Sol-Gel Science and Technology*, **2004**, 30, 49-61	2.3	20
1	Conversion and storage of solar energy for cooling. *Energy and Environmental Science*,	35.4	2