Xiaowei Cheng

List of Publications by Citations

46 papers	1,939 citations	24 h-index	44 g-index
46 ext. papers	2,337 ext. citations	10.4 avg, IF	4.97 L-index

#	Paper	IF	Citations
46	An Interface Coassembly in Biliquid Phase: Toward Core-Shell Magnetic Mesoporous Silica Microspheres with Tunable Pore Size. *Journal of the American Chemical Society*, **2015**, 137, 13282-9	16.4	208
45	Pt Nanoparticles Sensitized Ordered Mesoporous WO3 Semiconductor: Gas Sensing Performance and Mechanism Study. *Advanced Functional Materials*, **2018**, 28, 1705268	15.6	160
44	Plasmolysis-Inspired Nanoengineering of Functional Yolk-Shell Microspheres with Magnetic Core and Mesoporous Silica Shell. *Journal of the American Chemical Society*, **2017**, 139, 15486-15493	16.4	146
43	Mesoporous Tungsten Oxides with Crystalline Framework for Highly Sensitive and Selective Detection of Foodborne Pathogens. *Journal of the American Chemical Society*, **2017**, 139, 10365-10373	16.4	142
42	Synthesis of Ordered Mesoporous Silica with Tunable Morphologies and Pore Sizes via a Nonpolar Solvent-Assisted Stber Method. *Chemistry of Materials*, **2016**, 28, 2356-2362	9.6	131
41	Ordered porous metal oxide semiconductors for gas sensing. *Chinese Chemical Letters*, **2018**, 29, 405-416	8.1	94
40	Chelation-assisted soft-template synthesis of ordered mesoporous zinc oxides for low concentration gas sensing. *Journal of Materials Chemistry A*, **2016**, 4, 15064-15071	13	68
39	Controllable Interface-Induced Co-Assembly toward Highly Ordered Mesoporous Pt@TiO2/g-C3N4 Heterojunctions with Enhanced Photocatalytic Performance. *Advanced Functional Materials*, **2018**, 28, 1806214	15.6	68
38	Ordered Mesoporous Tin Oxide Semiconductors with Large Pores and Crystallized Walls for High-Performance Gas Sensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 1871-1880	9.5	63
37	sp-Hybridized Carbon-Containing Block Copolymer Templated Synthesis of Mesoporous Semiconducting Metal Oxides with Excellent Gas Sensing Property. *Accounts of Chemical Research*, **2019**, 52, 714-725	24.3	59
36	Amphiphilic Block Copolymer Templated Synthesis of Mesoporous Indium Oxides with Nanosheet-Assembled Pore Walls. *Chemistry of Materials*, **2016**, 28, 7997-8005	9.6	59
35	Controlled Synthesis of Ordered Mesoporous Carbon-Cobalt Oxide Nanocomposites with Large Mesopores and Graphitic Walls. *Chemistry of Materials*, **2016**, 28, 7773-7780	9.6	57
34	Rational design of a stable peroxidase mimic for colorimetric detection of HO and glucose: A synergistic CeO/Zeolite Y nanocomposite. *Journal of Colloid and Interface Science*, **2019**, 535, 425-435	9.3	51
33	Rational Synthesis and Gas Sensing Performance of Ordered Mesoporous Semiconducting WO/NiO Composites. *ACS Applied Materials & Interfaces*, **2019**, 11, 26268-26276	9.5	48
32	Fast synthesis of nanosized zeolite beta from a low-seeded, low-templated dry gel with a seeding-steam-assisted conversion method. *Journal of Materials Chemistry A*, **2014**, 2, 1247-1251	13	44
31	Amphiphilic Block Copolymers Directed Interface Coassembly to Construct Multifunctional Microspheres with Magnetic Core and Monolayer Mesoporous Aluminosilicate Shell. *Advanced Materials*, **2018**, 30, e1800345	24	39
30	Synthesis of ZSM-5 aggregates made of zeolite nanocrystals through a simple solvent-free method. *Microporous and Mesoporous Materials*, **2017**, 243, 112-118	5.3	37

29	Cementing Mesoporous ZnO with Silica for Controllable and Switchable Gas Sensing Selectivity. *Chemistry of Materials*, **2019**, 31, 8112-8120	9.6	31
28	Nonsacrificial Self-Template Synthesis of Colloidal Magnetic Yolk-Shell Mesoporous Organosilicas for Efficient Oil/Water Interface Catalysis. *Small*, **2019**, 15, e1805465	11	28
27	Large-Pore Mesoporous CeO -ZrO Solid Solutions with In-Pore Confined Pt Nanoparticles for Enhanced CO Oxidation. *Small*, **2019**, 15, e1903058	11	27
26	Mesoporous Materials-Based Electrochemical Biosensors from Enzymatic to Nonenzymatic. *Small*, **2021**, 17, e1904022	11	27
25	Pore Engineering of Mesoporous Tungsten Oxides for Ultrasensitive Gas Sensing. *Advanced Materials Interfaces*, **2019**, 6, 1801269	4.6	26
24	3D Interconnected Mesoporous Alumina with Loaded Hemoglobin as a Highly Active Electrochemical Biosensor for H O. *Advanced Healthcare Materials*, **2018**, 7, e1800149	10.1	25
23	Ordered mesoporous CoO/CeO2 heterostructures with highly crystallized walls and enhanced peroxidase-like bioactivity. *Applied Materials Today*, **2019**, 15, 482-493	6.6	24
22	CuO nanoparticles incorporated in hierarchical MFI zeolite as highly active electrocatalyst for non-enzymatic glucose sensing. *Colloids and Surfaces B: Biointerfaces*, **2015**, 125, 206-12	6	24
21	A General and Straightforward Route to Noble Metal-Decorated Mesoporous Transition-Metal Oxides with Enhanced Gas Sensing Performance. *Small*, **2019**, 15, e1904240	11	24
20	Highly dispersed Pt nanoparticles on ultrasmall EMT zeolite: A peroxidase-mimic nanoenzyme for detection of HO or glucose. *Journal of Colloid and Interface Science*, **2020**, 570, 300-311	9.3	22
19	An Efficient Emulsion-Induced Interface Assembly Approach for Rational Synthesis of Mesoporous Carbon Spheres with Versatile Architectures. *Advanced Functional Materials*, **2020**, 30, 2002488	15.6	22
18	Rational Design of Yolk-Shell CuO/Silicalite-1@mSiO Composites for a High-Performance Nonenzymatic Glucose Biosensor. *Langmuir*, **2018**, 34, 7663-7672	4	21
17	Hydrogen peroxide biosensor based on direct electrochemistry of hemoglobin immobilized on gold nanoparticles in a hierarchically porous zeolite. *Mikrochimica Acta*, **2013**, 180, 1333-1340	5.8	21
16	Polymerization-Induced Colloid Assembly Route to Iron Oxide-Based Mesoporous Microspheres for Gas Sensing and Fenton Catalysis. *ACS Applied Materials & Interfaces*, **2018**, 10, 13028-13039	9.5	20
15	A Universal Lab-on-Salt-Particle Approach to 2D Single-Layer Ordered Mesoporous Materials. *Advanced Materials*, **2020**, 32, e1906653	24	19
14	Hollow Mesoporous Carbon Nanospheres Loaded with Pt Nanoparticles for Colorimetric Detection of Ascorbic Acid and Glucose. *ACS Applied Nano Materials*, **2020**, 3, 4586-4598	5.6	18
13	Au Nanoparticles Decorated Mesoporous SiO -WO Hybrid Materials with Improved Pore Connectivity for Ultratrace Ethanol Detection at Low Operating Temperature. *Small*, **2020**, 16, e2004772	11	17
12	Amphiphilic block copolymers directed synthesis of mesoporous nickel-based oxides with bimodal mesopores and nanocrystal-assembled walls. *Chinese Chemical Letters*, **2019**, 30, 2003-2008	8.1	14

11	High-silica ferrierite zeolite self-transformed from aluminosilicate gel. *ChemPhysChem*, **2006**, 7, 1198-202	3.2	10
10	Catalytic Performances of Binder-free ZSM-5 Catalysts for Dehydration of Crude Methanol to Dimethyl Ether. *Chinese Journal of Chemistry*, **2010**, 28, 183-188	4.9	8
9	An FeMnCu/SiO2@silicalite-1 catalyst for CO hydrogenation: the role of the zeolite shell on light-olefin production. *Catalysis Science and Technology*, **2016**, 6, 3559-3567	5.5	7
8	Confined interfacial micelle aggregating assembly of ordered macro-mesoporous tungsten oxides for HS sensing. *Nanoscale*, **2020**, 12, 20811-20819	7.7	7
7	Recent advance in synthesis and application of heteroatom zeolites. *Chinese Chemical Letters*, **2021**, 32, 328-338	8.1	6
6	Sensors: Pt Nanoparticles Sensitized Ordered Mesoporous WO3 Semiconductor: Gas Sensing Performance and Mechanism Study (Adv. Funct. Mater. 6/2018). *Advanced Functional Materials*, **2018**, 28, 1870040	15.6	5
5	Smart Cargo Delivery System based on Mesoporous Nanoparticles for Bone Disease Diagnosis and Treatment. *Advanced Science*, **2021**, 8, e2004586	13.6	5
4	One-dimensional nanochains consisting of magnetic core and mesoporous aluminosilicate for use as efficient nanocatalysts. *Nano Research*, **2021**, 14, 4197	10	3
3	Ultra-low temperature preparation of mullite glass-ceramics with high transparency sintered from EMT-type zeolite. *Journal of the American Ceramic Society*, **2021**, 104, 3158-3166	3.8	2
2	Controllable Multicomponent Co-Assembly Approach to Ordered Mesoporous Zirconia Supported with Well-Dispersed Tungsten Oxide Clusters as High-Performance Catalysts. *ChemCatChem*, **2021**, 13, 2863-2872	5.2	1
1	General and Efficient Synthesis of Two-Dimensional Monolayer Mesoporous Materials with Diverse Framework Compositions. *ACS Applied Materials & Interfaces*, **2021**, 13, 1222-1233	9.5	1