Dong Gu

List of Publications by Year
in descending order

75 papers	11,745 citations	57631 44 h-index	66788 78 g-index
81 all docs	81 docs citations	81 times ranked	11291 citing authors

#	Article	IF	Citations
1	Ordered Mesoporous Polymers and Homologous Carbon Frameworks: Amphiphilic Surfactant Templating and Direct Transformation. Angewandte Chemie - International Edition, 2005, 44, 7053-7059.	7.2	1,218
2	A Family of Highly Ordered Mesoporous Polymer Resin and Carbon Structures from Organicâ^'Organic Self-Assembly. Chemistry of Materials, 2006, 18, 4447-4464.	3.2	1,005
3	A Lowâ€Concentration Hydrothermal Synthesis of Biocompatible Ordered Mesoporous Carbon Nanospheres with Tunable and Uniform Size. Angewandte Chemie - International Edition, 2010, 49, 7987-7991.	7.2	608
4	Two-Dimensional Mesoporous Carbon Nanosheets and Their Derived Graphene Nanosheets: Synthesis and Efficient Lithium Ion Storage. Journal of the American Chemical Society, 2013, 135, 1524-1530.	6.6	591
5	A Facile Aqueous Route to Synthesize Highly Ordered Mesoporous Polymers and Carbon Frameworks withIa3Ì„dBicontinuous Cubic Structure. Journal of the American Chemical Society, 2005, 127, 13508-13509.	6.6	588
6	Triconstituent Co-assembly to Ordered Mesostructured Polymerâ^'Silica and Carbonâ^'Silica Nanocomposites and Large-Pore Mesoporous Carbons with High Surface Areas. Journal of the American Chemical Society, 2006, 128, 11652-11662.	6.6	579
7	Synthesis of non-siliceous mesoporous oxides. Chemical Society Reviews, 2014, 43, 313-344.	18.7	511
8	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, 1690-1697.	6.6	377
9	A Selfâ€Template Strategy for the Synthesis of Mesoporous Carbon Nanofibers as Advanced Supercapacitor Electrodes. Advanced Energy Materials, 2011, 1, 382-386.	10.2	359
10	Controllable Synthesis of Mesoporous Peapodâ€like Co₃O₄@Carbon Nanotube Arrays for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 7060-7064.	7.2	355
11	Hydrothermal Etching Assisted Crystallization: A Facile Route to Functional Yolk-Shell Titanate Microspheres with Ultrathin Nanosheets-Assembled Double Shells. Journal of the American Chemical Society, 2011, 133, 15830-15833.	6.6	278
12	An Aqueous Cooperative Assembly Route To Synthesize Ordered Mesoporous Carbons with Controlled Structures and Morphology. Chemistry of Materials, 2006, 18, 5279-5288.	3.2	238
13	Highly Ordered Mesoporous Cobalt-Containing Oxides: Structure, Catalytic Properties, and Active Sites in Oxidation of Carbon Monoxide. Journal of the American Chemical Society, 2015, 137, 11407-11418.	6.6	225
14	Hierarchically Ordered Macro-/Mesoporous Silica Monolith: Tuning Macropore Entrance Size for Size-Selective Adsorption of Proteins. Chemistry of Materials, 2011, 23, 2176-2184.	3.2	200
15	One-step hydrothermal synthesis of ordered mesostructured carbonaceous monoliths with hierarchical porosities. Chemical Communications, 2008, , 2641.	2.2	177
16	Synthesis and microwave absorption of uniform hematite nanoparticles and their core-shell mesoporous silica nanocomposites. Journal of Materials Chemistry, 2009, 19, 6706.	6.7	174
17	Nitrogenâ€Doped Ordered Mesoporous Carbon Supported Bimetallic PtCo Nanoparticles for Upgrading of Biophenolics. Angewandte Chemie - International Edition, 2016, 55, 8850-8855.	7.2	152
18	Cadmium Imidazolate Frameworks with Polymorphism, High Thermal Stability, and a Large Surface Area. Chemistry - A European Journal, 2010, 16, 1137-1141.	1.7	148

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19	Ligandâ€Assisted Assembly Approach to Synthesize Largeâ€Pore Ordered Mesoporous Titania with Thermally Stable and Crystalline Framework. Advanced Energy Materials, 2011, 1, 241-248.	10.2	139
20	Catalytic decomposition of methane to produce hydrogen: A review. Journal of Energy Chemistry, 2021, 58, 415-430.	7.1	137
21	Controlled Synthesis and Functionalization of Ordered Largeâ€Pore Mesoporous Carbons. Advanced Functional Materials, 2010, 20, 3658-3665.	7.8	127
22	Formation of Mesoporous Carbon With a Face-Centered-CubicFdm Structure and Bimodal Architectural Pores From the Reverse Amphiphilic Triblock Copolymer PPO-PEO-PPO. Angewandte Chemie - International Edition, 2007, 46, 1089-1093.	7.2	117
23	An Aqueous Emulsion Route to Synthesize Mesoporous Carbon Vesicles and Their Nanocomposites. Advanced Materials, 2010, 22, 833-837.	11.1	117
24	Ultra-Large-Pore Mesoporous Carbons Templated from Poly(ethylene oxide)-b-Polystyrene Diblock Copolymer by Adding Polystyrene Homopolymer as a Pore Expander. Chemistry of Materials, 2008, 20, 7281-7286.	3.2	115
25	Microwave absorption enhancement and electron microscopy characterization of BaTiO3 nano-torus. Nanoscale, 2011, 3, 3860.	2.8	109
26	Mesoporous Carbon Single-Crystals from Organicâ^'Organic Self-Assembly. Journal of the American Chemical Society, 2007, 129, 7746-7747.	6.6	105
27	Design of Amphiphilic ABC Triblock Copolymer for Templating Synthesis of Large-Pore Ordered Mesoporous Carbons with Tunable Pore Wall Thickness. Chemistry of Materials, 2009, 21, 3996-4005.	3.2	102
28	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2016, 55, 11101-11105.	7.2	99
29	Thick wall mesoporous carbons with a large pore structure templated from a weakly hydrophobic PEOâ€“PMMA diblock copolymer. Journal of Materials Chemistry, 2008, 18, 91-97.	6.7	91
30	Gold on Different Manganese Oxides: Ultra-Low-Temperature CO Oxidation over Colloidal Gold Supported on Bulk-MnO₂ Nanomaterials. Journal of the American Chemical Society, 2016, 138, 9572-9580.	6.6	88
31	Dual-template synthesis of magnetically-separable hierarchically-ordered porous carbons by catalytic graphitization. Carbon, 2011, 49, 3055-3064.	5.4	87
32	Direct triblock-copolymer-templating synthesis of ordered nitrogen-containing mesoporous polymers. Journal of Colloid and Interface Science, 2010, 342, 579-585.	5.0	83
33	Silicaâ€Templated Synthesis of Ordered Mesoporous Tungsten Carbide/Graphitic Carbon Composites with Nanocrystalline Walls and High Surface Areas via a Temperatureâ€Programmed Carburization Route. Small, 2009, 5, 2738-2749.	5.2	76
34	Growth of Single-Crystal Mesoporous Carbons with Im3Ì…m Symmetry. Chemistry of Materials, 2010, 22, 4828-4833.	3.2	70
35	Direct Synthesis of Controllable Microstructures of Thermally Stable and Ordered Mesoporous Crystalline Titanium Oxides and Carbide/Carbon Composites. Chemistry of Materials, 2010, 22, 1760-1767.	3.2	70
36	Ordered mesoporous Cuâ€“Ceâ€“O catalysts for CO preferential oxidation in H2-rich gases: Influence of copper content and pretreatment conditions. Applied Catalysis B: Environmental, 2014, 152-153, 11-18.	10.8	68

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37	Ruthenium Supported on Highâ€Surfaceâ€Area Zirconia as an Efficient Catalyst for the Baseâ€Free Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemSusChem, 2018, 11, 2083-2090.	3.6	60
38	Versatile Preparation of Mesoporous Singleâ€Layered Transitionâ€Metal Sulfide/Carbon Composites for Enhanced Sodium Storage. Advanced Materials, 2022, 34, e2104427.	11.1	58
39	Robust conductive mesoporous carbonâ€“silica composite films with highly ordered and oriented orthorhombic structures from triblock-copolymer template co-assembly. Journal of Materials Chemistry, 2010, 20, 1691.	6.7	55
40	Templateâ€Free Electrochemical Formation of Silicon Nanotubes from Silica. Advanced Science, 2020, 7, 2001492.	5.6	51
41	Interfacial confinement of Ni-V2O3 in molten salts for enhanced electrocatalytic hydrogen evolution. Journal of Energy Chemistry, 2020, 50, 280-285.	7.1	51
42	Uniform 2 nm gold nanoparticles supported on iron oxides as active catalysts for CO oxidation reaction: structureâ€“activity relationship. Nanoscale, 2015, 7, 4920-4928.	2.8	47
43	Surfaceâ€Casting Synthesis of Mesoporous Zirconia with a CMKâ€5â€Like Structure and High Surface Area. Angewandte Chemie - International Edition, 2017, 56, 11222-11225.	7.2	44
44	Nickel based oxide film formed in molten salts for efficient electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2019, 7, 10514-10522.	5.2	44
45	Thermoelectrochemical formation of Fe/Fe₃C@hollow N-doped carbon in molten salts for enhanced catalysis. Journal of Materials Chemistry A, 2020, 8, 4800-4806.	5.2	43
46	Controllable Synthesis of Mesoporous Peapodâ€like Co₃O₄@Carbon Nanotube Arrays for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie, 2015, 127, 7166-7170.	1.6	42
47	Large pore mesostructured cellular silica foam coated magnetic oxide composites with multilamellar vesicle shells for adsorption. Chemical Communications, 2014, 50, 713-715.	2.2	40
48	Synthesis of Ordered Mesoporous Carbon Materials with Semi-Graphitized Walls via Direct In-situ Silica-Confined Thermal Decomposition of CH4 and Their Hydrogen Storage Properties. Topics in Catalysis, 2009, 52, 12-26.	1.3	36
49	Magnetic 3-D ordered macroporous silica templated from binary colloidal crystals and its application for effective removal of microcystin. Microporous and Mesoporous Materials, 2010, 130, 26-31.	2.2	36
50	Avoiding Selfâ€Poisoning: A Key Feature for the High Activity of Au/Mg(OH)₂ Catalysts in Continuous Lowâ€Temperature CO Oxidation. Angewandte Chemie - International Edition, 2017, 56, 9597-9602.	7.2	32
51	Controllable conversion of rice husks to Si/C and SiC/C composites in molten salts. Journal of Energy Chemistry, 2021, 55, 102-107.	7.1	32
52	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie, 2016, 128, 11267-11271.	1.6	31
53	In Situ X-ray Diffraction Study of Coâ€“Al Nanocomposites as Catalysts for Ammonia Decomposition. Journal of Physical Chemistry C, 2015, 119, 17102-17110.	1.5	29
54	Influence of preparation method and doping of zirconium oxide onto the material characteristics and catalytic activity for the HDO reaction in nickel on zirconium oxide catalysts. Journal of Catalysis, 2018, 365, 367-375.	3.1	28

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55	One-step molten-salt synthesis of anatase/rutile bi-phase TiO2@MoS2 hierarchical photocatalysts for enhanced solar-driven hydrogen generation. Applied Surface Science, 2020, 507, 145072.	3.1	28
56	An unusual example of morphology controlled periodic mesoporous organosilica single crystals. Journal of Materials Chemistry, 2010, 20, 6460.	6.7	22
57	A novel approach to the construction of 3-D ordered macrostructures with polyhedral particles. Journal of Materials Chemistry, 2008, 18, 408-415.	6.7	18
58	Direct imaging of the layer-by-layer growth and rod-unit repairing defects of mesoporous silica SBA-15 by cryo-SEM. Journal of Materials Chemistry, 2011, 21, 17371.	6.7	18
59	High surface area black TiO2 templated from ordered mesoporous carbon for solar driven hydrogen evolution. Microporous and Mesoporous Materials, 2018, 268, 162-169.	2.2	18
60	Nitrogenâ€Doped Ordered Mesoporous Carbon Supported Bimetallic PtCo Nanoparticles for Upgrading of Biophenolics. Angewandte Chemie, 2016, 128, 8996-9001.	1.6	17
61	Tracking the Active Catalyst for Ironâ€Based Ammonia Decomposition by In Situ Synchrotron Diffraction Studies. ChemCatChem, 2018, 10, 4465-4472.	1.8	17
62	Recent progress on functional mesoporous materials as catalysts in organic synthesis. Emergent Materials, 2020, 3, 247-266.	3.2	17
63	Synthesis of monodispersed ultrafine Bi2S3 nanocrystals. Journal of Alloys and Compounds, 2011, 509, 9382-9386.	2.8	16
64	Ag24Au cluster decorated mesoporous Co3O4 for highly selective and efficient photothermal CO2 hydrogenation. Nano Research, 2022, 15, 4965-4972.	5.8	15
65	Bio-oil upgrading via vapor-phase ketonization over nanostructured FeOx and MnOx: catalytic performance and mechanistic insight. Biomass Conversion and Biorefinery, 2017, 7, 319-329.	2.9	14
66	Recent progress of mesoporous carbons applied in electrochemical catalysis. New Carbon Materials, 2022, 37, 152-179.	2.9	13
67	In Situ Synthesis of CuN₄/Mesoporous Nâ€Doped Carbon for Selective Oxidative Crosscoupling of Terminal Alkynes under Mild Conditions. Small, 2022, 18, e2105178.	5.2	11
68	Surfaceâ€Casting Synthesis of Mesoporous Zirconia with a CMKâ€5â€Like Structure and High Surface Area. Angewandte Chemie, 2017, 129, 11374-11377.	1.6	10
69	Advanced electron microscopy characterization for pore structure of mesoporous materials; a study of FDU-16 and FDU-18. Journal of Materials Chemistry, 2011, 21, 13664.	6.7	9
70	Effect of reductionâ€“oxidation treatment on structure and catalytic properties of ordered mesoporous Cuâ€“Mgâ€“Al composite oxides. Science Bulletin, 2015, 60, 1108-1113.	4.3	8
71	Effects of K and Mn promoters over Fe2O3 on Fischerâ€“Tropsch synthesis. Journal of Energy Chemistry, 2020, 47, 118-127.	7.1	8
72	A â€œteardownâ€•method to create large mesotunnels on the pore walls of ordered mesoporous silica. Journal of Colloid and Interface Science, 2008, 328, 338-343.	5.0	7

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73	Highly Ordered Mesoporous Cobalt Oxide as Heterogeneous Catalyst for Aerobic Oxidative Aromatization of Nâ€Heterocycles. ChemCatChem, 2021, 13, 3679-3686.	1.8	6
74	High-resolution electron microscopy study of mesoporous dichalcogenides and their hydrogen storage properties. Nanotechnology, 2011, 22, 075702.	1.3	4
75	Ordered mesoporous polymers and polymer-silica anocomposites. Studies in Surface Science and Catalysis, 2007, 170, 1721-1733.	1.5	2