Dong Gu

List of Publications by Year
in descending order

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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	Versatile Preparation of Mesoporous Singleâ€Layered Transitionâ€Metal Sulfide/Carbon Composites for Enhanced Sodium Storage. Advanced Materials, 2022, 34, e2104427.	11.1	58
2	Recent progress of mesoporous carbons applied in electrochemical catalysis. New Carbon Materials, 2022, 37, 152-179.	2.9	13
3	Ag24Au cluster decorated mesoporous Co3O4 for highly selective and efficient photothermal CO2 hydrogenation. Nano Research, 2022, 15, 4965-4972.	5.8	15
4	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
5	Catalytic decomposition of methane to produce hydrogen: A review. Journal of Energy Chemistry, 2021, 58, 415-430.	7.1	137
6	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
7	Highly Ordered Mesoporous Cobalt Oxide as Heterogeneous Catalyst for Aerobic Oxidative Aromatization of Nâ€Heterocycles. ChemCatChem, 2021, 13, 3679-3686.	1.8	6
8	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
9	Effects of K and Mn promoters over Fe2O3 on Fischerâ€“Tropsch synthesis. Journal of Energy Chemistry, 2020, 47, 118-127.	7.1	8
10	Templateâ€Free Electrochemical Formation of Silicon Nanotubes from Silica. Advanced Science, 2020, 7, 2001492.	5.6	51
11	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
12	Interfacial confinement of Ni-V2O3 in molten salts for enhanced electrocatalytic hydrogen evolution. Journal of Energy Chemistry, 2020, 50, 280-285.	7.1	51
13	Recent progress on functional mesoporous materials as catalysts in organic synthesis. Emergent Materials, 2020, 3, 247-266.	3.2	17
14	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
15	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
16	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
17	Tracking the Active Catalyst for Ironâ€Based Ammonia Decomposition by In Situ Synchrotron Diffraction Studies. ChemCatChem, 2018, 10, 4465-4472.	1.8	17
18	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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19	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
20	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
21	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
22	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
23	Nitrogenâ€Doped Ordered Mesoporous Carbon Supported Bimetallic PtCo Nanoparticles for Upgrading of Biophenolics. Angewandte Chemie, 2016, 128, 8996-9001.	1.6	17
24	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
25	Nitrogenâ€Doped Ordered Mesoporous Carbon Supported Bimetallic PtCo Nanoparticles for Upgrading of Biophenolics. Angewandte Chemie - International Edition, 2016, 55, 8850-8855.	7.2	152
26	Co₃O₄ Nanoparticles Supported on Mesoporous Carbon for Selective Transfer Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie, 2016, 128, 11267-11271.	1.6	31
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	Synthesis of non-siliceous mesoporous oxides. Chemical Society Reviews, 2014, 43, 313-344.	18.7	511
35	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
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	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
38	Microwave absorption enhancement and electron microscopy characterization of BaTiO3 nano-torus. Nanoscale, 2011, 3, 3860.	2.8	109
39	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
40	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
41	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
42	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
43	Synthesis of monodispersed ultrafine Bi2S3 nanocrystals. Journal of Alloys and Compounds, 2011, 509, 9382-9386.	2.8	16
44	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
45	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
46	Dual-template synthesis of magnetically-separable hierarchically-ordered porous carbons by catalytic graphitization. Carbon, 2011, 49, 3055-3064.	5.4	87
47	High-resolution electron microscopy study of mesoporous dichalcogenides and their hydrogen storage properties. Nanotechnology, 2011, 22, 075702.	1.3	4
48	Controlled Synthesis and Functionalization of Ordered Largeâ€Pore Mesoporous Carbons. Advanced Functional Materials, 2010, 20, 3658-3665.	7.8	127
49	An Aqueous Emulsion Route to Synthesize Mesoporous Carbon Vesicles and Their Nanocomposites. Advanced Materials, 2010, 22, 833-837.	11.1	117
50	Cadmium Imidazolate Frameworks with Polymorphism, High Thermal Stability, and a Large Surface Area. Chemistry - A European Journal, 2010, 16, 1137-1141.	1.7	148
51	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
52	Direct triblock-copolymer-templating synthesis of ordered nitrogen-containing mesoporous polymers. Journal of Colloid and Interface Science, 2010, 342, 579-585.	5.0	83
53	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
54	Growth of Single-Crystal Mesoporous Carbons with Im3Ì…m Symmetry. Chemistry of Materials, 2010, 22, 4828-4833.	3.2	70

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55	An unusual example of morphology controlled periodic mesoporous organosilica single crystals. Journal of Materials Chemistry, 2010, 20, 6460.	6.7	22
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	One-step hydrothermal synthesis of ordered mesostructured carbonaceous monoliths with hierarchical porosities. Chemical Communications, 2008, , 2641.	2.2	177
65	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
66	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
67	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
68	Ordered mesoporous polymers and polymer-silica anocomposites. Studies in Surface Science and Catalysis, 2007, 170, 1721-1733.	1.5	2
69	Mesoporous Carbon Single-Crystals from Organicâˆ’Organic Self-Assembly. Journal of the American Chemical Society, 2007, 129, 7746-7747.	6.6	105
70	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
71	Triconstituent Co-assembly to Ordered Mesostructured Polymerâˆ’Silica and Carbonâˆ’Silica Nanocomposites and Large-Pore Mesoporous Carbons with High Surface Areas. Journal of the American Chemical Society, 2006, 128, 11652-11662.	6.6	579
72	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

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73	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
74	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
75	A Facile Aqueous Route to Synthesize Highly Ordered Mesoporous Polymers and Carbon Frameworks withIa3l,,dBicontinuous Cubic Structure. Journal of the American Chemical Society, 2005, 127, 13508-13509.	6.6	588