Kebin Zhou

List of Publications by Year
in descending order

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37 papers	4,957 citations	218592 26 h-index	315616 38 g-index
38 all docs	38 docs citations	38 times ranked	7093 citing authors

#	Article	IF	Citations
1	Oxygen Vacancy Clusters Promoting Reducibility and Activity of Ceria Nanorods. Journal of the American Chemical Society, 2009, 131, 3140-3141.	6.6	1,058
2	Enhanced catalytic activity of ceria nanorods from well-defined reactive crystal planes. Journal of Catalysis, 2005, 229, 206-212.	3.1	1,010
3	Catalysis Based on Nanocrystals with Wellâ€Đefined Facets. Angewandte Chemie - International Edition, 2012, 51, 602-613.	7.2	729
4	Support Morphology-Dependent Catalytic Activity of Pd/CeO₂ for Formaldehyde Oxidation. Environmental Science & Technology, 2015, 49, 8675-8682.	4.6	309
5	Highly Reducible CeO2Nanotubes. Chemistry of Materials, 2007, 19, 1215-1217.	3.2	211
6	Enhanced photocatalytic hydrogen evolution from in situ formation of few-layered MoS₂/CdS nanosheet-based van der Waals heterostructures. Nanoscale, 2017, 9, 6638-6642.	2.8	176
7	Dual-atom Ag2/graphene catalyst for efficient electroreduction of CO2 to CO. Applied Catalysis B: Environmental, 2020, 268, 118747.	10.8	140
8	MOFâ€Confined Subâ€2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as Highâ€Performance Catalysts for Selective Hydrogenation of Acetylene. Advanced Materials, 2018, 30, e1801878.	11.1	133
9	High Porosity Supermacroporous Polystyrene Materials with Excellent Oilâ€“Water Separation and Gas Permeability Properties. ACS Applied Materials & Interfaces, 2015, 7, 6745-6753.	4.0	127
10	Hydrodeoxygenation of vanillin as a bio-oil model over carbonaceous microspheres-supported Pd catalysts in the aqueous phase and Pickering emulsions. Green Chemistry, 2014, 16, 2636-2643.	4.6	110
11	Amphiphilic Hollow Carbonaceous Microspheres with Permeable Shells. Angewandte Chemie - International Edition, 2010, 49, 4223-4227.	7.2	95
12	Gold catalyzed hydrogenations of small imines and nitriles: enhanced reactivity of Au surface toward H₂via collaboration with a Lewis base. Chemical Science, 2014, 5, 1082-1090.	3.7	91
13	Au/LaVO4 Nanocomposite: Preparation, characterization, and catalytic activity for CO oxidation. Nano Research, 2008, 1, 46-55.	5.8	77
14	Morphological Effects of Gold Clusters on the Reactivity of Ceria Surface Oxygen. ACS Catalysis, 2015, 5, 2873-2881.	5.5	69
15	Electrochemical performance of 2D polyaniline anchored CuS/Graphene nano-active composite as anode material for lithium-ion battery. Journal of Colloid and Interface Science, 2017, 502, 16-23.	5.0	65
16	Multifunctional amphiphilic carbonaceous microcapsules catalyze water/oil biphasic reactions. Chemical Communications, 2011, 47, 11903.	2.2	56
17	50 ppm of Pd dispersed on Ni(OH)2 nanosheets catalyzing semi-hydrogenation of acetylene with high activity and selectivity. Nano Research, 2018, 11, 905-912.	5.8	48
18	Enhancing H2 evolution by optimizing H adatom combination and desorption over Pd nanocatalyst. Nano Energy, 2017, 33, 410-417.	8.2	43

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19	Fe2P nanoparticles as highly efficient freestanding co-catalyst for photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2018, 43, 5337-5345.	3.8	42
20	Crystal plane effects of nano-CeO₂ on its antioxidant activity. RSC Advances, 2014, 4, 50325-50330.	1.7	38
21	Defect-enriched, nitrogen-doped graphitic carbon microspheres within 3D interconnected super-macropores as efficient oxygen electrocatalysts for breathing Zn-Air battery. Carbon, 2019, 145, 38-46.	5.4	38
22	Crystalline/Amorphous Co₂P@FePO₄ Core/Shell Nanoheterostructures Supported on Porous Carbon Microspheres as Efficient Oxygen Reduction Electrocatalysts. Chemistry of Materials, 2019, 31, 8026-8034.	3.2	33
23	Synthesis of water-soluble chitosan-coated nanoceria with excellent antioxidant properties. RSC Advances, 2013, 3, 6833.	1.7	31
24	Topological self-template directed synthesis of multi-shelled intermetallic Ni₃Ga hollow microspheres for the selective hydrogenation of alkyne. Chemical Science, 2019, 10, 614-619.	3.7	31
25	Hierarchically porous carbon microspheres with fully open and interconnected super-macropores for air cathodes of Zn-Air batteries. Carbon, 2018, 136, 54-62.	5.4	30
26	Graphite Nanoarrays-Confined Fe and Co Single-Atoms within Graphene Sponges as Bifunctional Oxygen Electrocatalyst for Ultralong Lasting Zinc-Air Battery. ACS Applied Materials & Interfaces, 2020, 12, 40415-40425.	4.0	27
27	Wrinkle-free atomically thin CdS nanosheets for photocatalytic hydrogen evolution. Nanotechnology, 2018, 29, 215402.	1.3	26
28	Hierarchical Nanosheet Arrays of Metal Oxides Guide Uniform Deposition for Lithium Anodes. ACS Sustainable Chemistry and Engineering, 2020, 8, 102-110.	3.2	14
29	Hydroxyl Radical Promotes the Direct Iodination of Aromatic Compounds with Iodine in Water: A Combined Experimental and Theoretical Study. Advanced Synthesis and Catalysis, 2012, 354, 720-729.	2.1	13
30	Oxygen vacancy-enriched Co3O4 as lithiophilic medium for ultra-stable anode of lithium metal batteries. Journal of Alloys and Compounds, 2021, 888, 161553.	2.8	13
31	2,2,2-Trifluoroethyl trifluoroacetate as effective electrolyte additive for uniform Li deposition in lithium metal batteries. Chemical Engineering Journal, 2022, 435, 134897.	6.6	12
32	Manipulation of the Reducibility of Ceriaâ€Supported Au Catalysts by Interface Engineering. ChemCatChem, 2013, 5, 1308-1312.	1.8	11
33	Strong electron-conjugation interaction facilitates electron transfer of hemoglobin by Ce(OH)3 nanorods. RSC Advances, 2013, 3, 6339.	1.7	10
34	Surfaceâ€Confined Synthesis of Ultrafine Ptâ€Rare Earth Nanoalloys on Nâ€Functionalized Supports. Advanced Functional Materials, 2022, 32, .	7.8	10
35	Enhanced photocatalytic oxygen evolution activity by formation of Ir@IrO_x(OH)_y coreâ€“shell heterostructure. Nanotechnology, 2018, 29, 405705.	1.3	8
36	Modulation of the superficial electronic structure via metalâ€“support interaction for H2 evolution over Pd catalysts. Chemical Science, 2021, 12, 3245-3252.	3.7	6

#	Article	IF	Citations
37	Enhancing electrocatalytic hydrogen evolution of WTe2 by formation of amorphous phosphate nanoshells. Electrochimica Acta, 2021, 385, 138409.	2.6	6