

# Kebin Zhou

## List of Publications by Year in descending order

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37  
papers

4,957  
citations

218381

26  
h-index

315357

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. <i>Journal of the American Chemical Society</i> , 2009, 131, 3140-3141.	6.6	1,058
2	Enhanced catalytic activity of ceria nanorods from well-defined reactive crystal planes. <i>Journal of Catalysis</i> , 2005, 229, 206-212.	3.1	1,010
3	Catalysis Based on Nanocrystals with Well-Defined Facets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 602-613.	7.2	729
4	Support Morphology-Dependent Catalytic Activity of Pd/CeO <sub>2</sub> for Formaldehyde Oxidation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8675-8682.	4.6	309
5	Highly Reducible CeO <sub>2</sub> Nanotubes. <i>Chemistry of Materials</i> , 2007, 19, 1215-1217.	3.2	211
6	Enhanced photocatalytic hydrogen evolution from in situ formation of few-layered MoS <sub>2</sub> /CdS nanosheet-based van der Waals heterostructures. <i>Nanoscale</i> , 2017, 9, 6638-6642.	2.8	176
7	Dual-atom Ag <sub>2</sub> /graphene catalyst for efficient electroreduction of CO <sub>2</sub> to CO. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118747.	10.8	140
8	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , 2018, 30, e1801878.	11.1	133
9	High Porosity Supermacroporous Polystyrene Materials with Excellent Oil-Water Separation and Gas Permeability Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 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. <i>Green Chemistry</i> , 2014, 16, 2636-2643.	4.6	110
11	Amphiphilic Hollow Carbonaceous Microspheres with Permeable Shells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4223-4227.	7.2	95
12	Gold catalyzed hydrogenations of small imines and nitriles: enhanced reactivity of Au surface toward H <sub>2</sub> via collaboration with a Lewis base. <i>Chemical Science</i> , 2014, 5, 1082-1090.	3.7	91
13	Au/LaVO <sub>4</sub> Nanocomposite: Preparation, characterization, and catalytic activity for CO oxidation. <i>Nano Research</i> , 2008, 1, 46-55.	5.8	77
14	Morphological Effects of Gold Clusters on the Reactivity of Ceria Surface Oxygen. <i>ACS Catalysis</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2017, 502, 16-23.	5.0	65
16	Multifunctional amphiphilic carbonaceous microcapsules catalyze water/oil biphasic reactions. <i>Chemical Communications</i> , 2011, 47, 11903.	2.2	56
17	50 ppm of Pd dispersed on Ni(OH) <sub>2</sub> nanosheets catalyzing semi-hydrogenation of acetylene with high activity and selectivity. <i>Nano Research</i> , 2018, 11, 905-912.	5.8	48
18	Enhancing H <sub>2</sub> evolution by optimizing H adatom combination and desorption over Pd nanocatalyst. <i>Nano Energy</i> , 2017, 33, 410-417.	8.2	43

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19	Fe <sub>2</sub> P nanoparticles as highly efficient freestanding co-catalyst for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5337-5345.	3.8	42
20	Crystal plane effects of nano-CeO <sub>2</sub> on its antioxidant activity. <i>RSC Advances</i> , 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. <i>Carbon</i> , 2019, 145, 38-46.	5.4	38
22	Crystalline/Amorphous Co <sub>2</sub> P@FePO <sub>4</sub> Core/Shell Nanoheterostructures Supported on Porous Carbon Microspheres as Efficient Oxygen Reduction Electrocatalysts. <i>Chemistry of Materials</i> , 2019, 31, 8026-8034.	3.2	33
23	Synthesis of water-soluble chitosan-coated nanoceria with excellent antioxidant properties. <i>RSC Advances</i> , 2013, 3, 6833.	1.7	31
24	Topological self-template directed synthesis of multi-shelled intermetallic Ni <sub>3</sub> Ga hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 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. <i>Carbon</i> , 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. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40415-40425.	4.0	27
27	Wrinkle-free atomically thin CdS nanosheets for photocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2018, 29, 215402.	1.3	26
28	Hierarchical Nanosheet Arrays of Metal Oxides Guide Uniform Deposition for Lithium Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 720-729.	2.1	13
30	Oxygen vacancy-enriched Co <sub>3</sub> O <sub>4</sub> as lithiophilic medium for ultra-stable anode of lithium metal batteries. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161553.	2.8	13
31	2,2,2-Trifluoroethyl trifluoroacetate as effective electrolyte additive for uniform Li deposition in lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022, 435, 134897.	6.6	12
32	Manipulation of the Reducibility of Ceria-Supported Au Catalysts by Interface Engineering. <i>ChemCatChem</i> , 2013, 5, 1308-1312.	1.8	11
33	Strong electron-conjugation interaction facilitates electron transfer of hemoglobin by Ce(OH) <sub>3</sub> nanorods. <i>RSC Advances</i> , 2013, 3, 6339.	1.7	10
34	Surface-Confined Synthesis of Ultrafine Pt-Rare Earth Nanoalloys on N-Functionalized Supports. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
35	Enhanced photocatalytic oxygen evolution activity by formation of Ir <sub>x</sub> (OH) <sub>y</sub> core-shell heterostructure. <i>Nanotechnology</i> , 2018, 29, 405705.	1.3	8
36	Modulation of the superficial electronic structure via metal-support interaction for H <sub>2</sub> evolution over Pd catalysts. <i>Chemical Science</i> , 2021, 12, 3245-3252.	3.7	6

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37	Enhancing electrocatalytic hydrogen evolution of WTe <sub>2</sub> by formation of amorphous phosphate nanoshells. <i>Electrochimica Acta</i> , 2021, 385, 138409.	2.6	6