Long Kuai

List of Publications by Year
in descending order

51 papers	3,103 citations	147801 31 h-index	161849 54 g-index
54 all docs	54 docs citations	54 times ranked	5157 citing authors

#	Article	IF	Citations
1	Facile Subsequently Light-Induced Route to Highly Efficient and Stable Sunlight-Driven Agâ^'AgBr Plasmonic Photocatalyst. Langmuir, 2010, 26, 18723-18727.	3.5	257
2	A Reliable Aerosolâ€Sprayâ€Assisted Approach to Produce and Optimize Amorphous Metal Oxide Catalysts for Electrochemical Water Splitting. Angewandte Chemie - International Edition, 2014, 53, 7547-7551.	13.8	234
3	Titania supported synergistic palladium single atoms and nanoparticles for room temperature ketone and aldehydes hydrogenation. Nature Communications, 2020, 11, 48.	12.8	223
4	Massâ€Production of Mesoporous MnCo₂O₄ Spinels with Manganese(IV)â€•and Cobalt(II)â€Rich Surfaces for Superior Bifunctional Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 14977-14981.	13.8	184
5	Scalable Dry Production Process of a Superior 3D Netâ€Like Carbonâ€Based Iron Oxide Anode Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 12649-12653.	13.8	126
6	Single-crystalline Î±-Fe2O3 oblique nanoparallelepipeds: High-yield synthesis, growth mechanism and structure enhanced gas-sensing properties. Nanoscale, 2011, 3, 718-724.	5.6	121
7	A template-free route to a Fe3O4â€“Co3O4 yolkâ€“shell nanostructure as a noble-metal free electrocatalyst for ORR in alkaline media. Journal of Materials Chemistry, 2012, 22, 19132.	6.7	116
8	Fabrication of a Visible-Light-Driven Plasmonic Photocatalyst of AgVO₃@AgBr@Ag Nanobelt Heterostructures. ACS Applied Materials & Interfaces, 2014, 6, 5061-5068.	8.0	99
9	Facile synthesis of Fe/Ni bimetallic oxide solid-solution nanoparticles with superior electrocatalytic activity for oxygen evolution reaction. Nano Research, 2015, 8, 3815-3822.	10.4	94
10	Auâ€“Pd Alloy and Coreâ€“Shell Nanostructures: One-Pot Coreduction Preparation, Formation Mechanism, and Electrochemical Properties. Langmuir, 2012, 28, 7168-7173.	3.5	87
11	Goldâ€“platinum yolkâ€“shell structure: a facile galvanic displacement synthesis and highly active electrocatalytic properties for methanol oxidation with super CO-tolerance. Chemical Communications, 2011, 47, 6093.	4.1	85
12	Well-Constructed Single-Layer Molybdenum Disulfide Nanorose Cross-Linked by Three Dimensional-Reduced Graphene Oxide Network for Superior Water Splitting and Lithium Storage Property. Scientific Reports, 2015, 5, 8722.	3.3	79
13	Agâ€“Au bimetallic nanostructures: co-reduction synthesis and their component-dependent performance for enzyme-free H2O2 sensing. Journal of Materials Chemistry A, 2013, 1, 7111.	10.3	73
14	A Highly Efficient, Cleanâ€Surface, Porous Platinum Electrocatalyst and the Inhibition Effect of Surfactants on Catalytic Activity. Chemistry - A European Journal, 2013, 19, 240-248.	3.3	71
15	Preciousâ€Metalâ€Free Coâ€“Feâ€“O/rGO Synergetic Electrocatalysts for Oxygen Evolution Reaction by a Facile Hydrothermal Route. ChemSusChem, 2015, 8, 659-664.	6.8	71
16	Mesoporous LaMnO3+Î´ perovskite from sprayâ^'pyrolysis with superior performance for oxygen reduction reaction and Znâ^'air battery. Nano Energy, 2018, 43, 81-90.	16.0	71
17	CeO2/rGO/Pt sandwich nanostructure: rGO-enhanced electron transmission between metal oxide and metal nanoparticles for anodic methanol oxidation of direct methanol fuel cells. Nanoscale, 2012, 4, 5738.	5.6	65
18	Massâ€Production of Mesoporous MnCo₂O₄ Spinels with Manganese(IV)â€•and Cobalt(II)â€Rich Surfaces for Superior Bifunctional Oxygen Electrocatalysis. Angewandte Chemie, 2017, 129, 15173-15177.	2.0	61

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19	Ion-Exchange Route to Auâ€“Cu_xOS Yolkâ€“Shell Nanostructures with Porous Shells and Their Ultrasensitive H₂O₂ Detection. ACS Applied Materials & Interfaces, 2012, 4, 6463-6467.	8.0	53
20	A General and Highâ€Yield Galvanic Displacement Approach to Auï£¿M (M=Au, Pd, and Pt) Coreâ€“Shell Nanostructures with Porous Shells and Enhanced Electrocatalytic Performances. Chemistry - A European Journal, 2012, 18, 9423-9429.	3.3	52
21	Porous Mn₂O₃: A Lowâ€Cost Electrocatalyst for Oxygen Reduction Reaction in Alkaline Media with Comparable Activity to Pt/C. Chemistry - A European Journal, 2016, 22, 9909-9913.	3.3	49
22	A facile and efficient strategy to gram-scale preparation of composition-controllable Ni-Fe LDHs nanosheets for superior OER catalysis. Electrochimica Acta, 2017, 225, 303-309.	5.2	46
23	Silver and Gold Icosahedra: Oneâ€Pot Waterâ€Based Synthesis and Their Superior Performance in the Electrocatalysis for Oxygen Reduction Reactions in Alkaline Media. Chemistry - A European Journal, 2011, 17, 3482-3489.	3.3	44
24	Atomically Dispersed Pt/Metal Oxide Mesoporous Catalysts from Synchronous Pyrolysisâ€“Deposition Route for Waterâ€“Gas Shift Reaction. Chemistry of Materials, 2018, 30, 5534-5538.	6.7	44
25	Leaf-structure patterning for antireflective and self-cleaning surfaces on Si-based solar cells. Solar Energy, 2018, 159, 733-741.	6.1	43
26	Aerosol-spray diverse mesoporous metal oxides from metal nitrates. Scientific Reports, 2015, 5, 9923.	3.3	42
27	Simultaneous tunable structure and composition of PtAg alloyed nanocrystals as superior catalysts. Nanoscale, 2016, 8, 14971-14978.	5.6	40
28	Low-cost and highly efficient composite visible light-driven Agâ€“AgBr/Î³-Al2O3 plasmonic photocatalyst for degrading organic pollutants. Catalysis Science and Technology, 2012, 2, 1269.	4.1	36
29	Mesoporous spherical Li4Ti5O12/TiO2 composites as an excellent anode material for lithium-ion batteries. Electrochimica Acta, 2016, 212, 41-46.	5.2	36
30	Advanced Catalytic Performance of Auâ€“Pt Doubleâ€Walled Nanotubes and Their Fabrication through Galvanic Replacement Reaction. Chemistry - A European Journal, 2013, 19, 11753-11758.	3.3	34
31	Pt nanoparticles residing in the pores of porous LaNiO3 nanocubes as high-efficiency electrocatalyst for direct methanol fuel cells. Nanoscale, 2012, 4, 5386.	5.6	32
32	Hydrothermal Synthesis of a rGO Nanosheet Enwrapped NiFe Nanoalloy for Superior Electrocatalytic Oxygen Evolution Reactions. Chemistry - A European Journal, 2016, 22, 14480-14483.	3.3	29
33	Hollow mesoporous CeO2 microspheres for efficient loading of Au single-atoms to catalyze the water-gas shift reaction. Microporous and Mesoporous Materials, 2020, 308, 110507.	4.4	29
34	One-pot facile synthesis of reusable tremella-like M₁@M₂@M₁(OH)₂(M₁= Co, Ni,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 catalysts. Nanoscale, 2014, 6, 9791.	5.6	28
35	Defectâ€Driven Enhancement of Electrochemical Oxygen Evolution on Feâ€“Coâ€“Al Ternary Hydroxides. ChemSusChem, 2019, 12, 2564-2569.	6.8	28
36	Highly dispersed Cu atoms in MOF-derived N-doped porous carbon inducing Pt loads for superior oxygen reduction and hydrogen evolution. Chemical Engineering Journal, 2021, 426, 130749.	12.7	28

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37	Dispersion and support dictated properties and activities of Pt/metal oxide catalysts in heterogeneous CO oxidation. Nano Research, 2021, 14, 4841-4847.	10.4	26
38	Ru Nanoworms Loaded TiO₂ for Their Catalytic Performances toward CO Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 5079-5087.	8.0	22
39	Scalable Dry Production Process of a Superior 3D Netâ€Like Carbonâ€Based Iron Oxide Anode Material for Lithiumâ€Ion Batteries. Angewandte Chemie, 2017, 129, 12823-12827.	2.0	21
40	CdS urchin-like microspheres/Î±-Fe2O3 and CdS/Fe3O4 nanoparticles heterostructures with improved photocatalytic recycled activities. Journal of Colloid and Interface Science, 2014, 426, 83-89.	9.4	20
41	â€œRe-growth Etchingâ€•to Large-sized Porous Gold Nanostructures. Scientific Reports, 2013, 3, 2377.	3.3	19
42	Simultaneous reductionâ€“etching route to Pt/ZnSnO3hollow polyhedral architectures for methanol electrooxidation in alkaline media with superior performance. Chemical Communications, 2011, 47, 2447-2449.	4.1	18
43	Shell structure-enhanced electrocatalytic performance of Auâ€“Pt coreâ€“shell catalyst. CrystEngComm, 2013, 15, 2133.	2.6	17
44	Mesoporous Cuâ€Ceâ€O_x Solid Solutions from Spray Pyrolysis for Superior Lowâ€Temperature CO Oxidation. Chemistry - A European Journal, 2019, 25, 15586-15593.	3.3	16
45	Delivery of Highly Active Nobleâ€Metal Nanoparticles into Microspherical Supports by an Aerosolâ€Spray Method. Chemistry - A European Journal, 2015, 21, 13291-13296.	3.3	15
46	Au/Pt co-loaded ultrathin TiO₂nanosheets for photocatalyzed H₂evolution by the synergistic effect of plasmonic enhancement and co-catalysis. RSC Advances, 2015, 5, 98254-98259.	3.6	15
47	Boosting the Activity of Single-Atom Pt₁/CeO₂ via Co Doping for Low-Temperature Catalytic Oxidation of CO. Inorganic Chemistry, 2022, 61, 11932-11938.	4.0	11
48	High-loading single-atom Pt/TiO2 mesoporous catalysts for superior photocatalytic oxidation of benzyl alcohol. Microporous and Mesoporous Materials, 2022, 337, 111949.	4.4	9
49	Branched twinned Au nanostructures: facile hydrothermal reduction fabrication, growth mechanism and electrochemical properties. CrystEngComm, 2012, 14, 6581.	2.6	8
50	Effect of Interface Contact Between C and C3N4 on Photocatalytic Water Splitting. Catalysis Letters, 2018, 148, 1435-1444.	2.6	5
51	Cu7.2S4 nanosheets decorated on the {3â€¯3â€¯2} high index facets of Cu2O with controllable oxygen defects and enhanced photocatalytic activity. Advanced Powder Technology, 2019, 30, 2363-2368.	4.1	3