Yao Nie

List of Publications by Year
in descending order

29	3,562	394421	501196
papers	citations	19 h-index	28 g-index

29	29	29	5617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advancements in Pt and Pt-free catalysts for oxygen reduction reaction. Chemical Society Reviews, 2015, 44, 2168-2201.	38.1	1,858
2	Shape Fixing via Salt Recrystallization: A Morphology-Controlled Approach To Convert Nanostructured Polymer to Carbon Nanomaterial as a Highly Active Catalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 5414-5420.	13.7	364
3	Insight into the Effect of Oxygen Vacancy Concentration on the Catalytic Performance of MnO₂. ACS Catalysis, 2015, 5, 4825-4832.	11.2	244
4	A Strategy to Promote the Electrocatalytic Activity of Spinels for Oxygen Reduction by Structure Reversal. Angewandte Chemie - International Edition, 2016, 55, 1340-1344.	13.8	153
5	Structural Evolution of Solid Pt Nanoparticles to a Hollow PtFe Alloy with a Ptâ€Skin Surface via Spaceâ€Confined Pyrolysis and the Nanoscale Kirkendall Effect. Advanced Materials, 2016, 28, 10673-10678.	21.0	150
6	Dual-Ligand Synergistic Modulation: A Satisfactory Strategy for Simultaneously Improving the Activity and Stability of Oxygen Evolution Electrocatalysts. ACS Catalysis, 2017, 7, 8184-8191.	11.2	109
7	A metalâ€“organic framework derived 3D hierarchical Co/N-doped carbon nanotube/nanoparticle composite as an active electrocatalyst for oxygen reduction in alkaline electrolyte. Journal of Materials Chemistry A, 2018, 6, 3386-3390.	10.3	92
8	Pt/C trapped in activated graphitic carbon layers as a highly durable electrocatalyst for the oxygen reduction reaction. Chemical Communications, 2014, 50, 15431-15434.	4.1	64
9	Controlled synthesis of hollow micro/meso-pore nitrogen-doped carbon with tunable wall thickness and specific surface area as efficient electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 2433-2437.	10.3	61
10	Accelerated alkaline hydrogen evolution on M(OH)_x/M-MoPO_x (M = Ni, Co, Fe,) Tj ETQq0 0 0 rgBT /Overlock 1 Science, 2020, 11, 2487-2493.	7.4	54
11	A catalyst superior to carbon-supported-platinum for promotion of the oxygen reduction reaction: reduced-polyoxometalate supported palladium. Journal of Materials Chemistry A, 2015, 3, 13962-13969.	10.3	49
12	Transformation of Metalâ€“Organic Frameworks into Huge-Diameter Carbon Nanotubes with High Performance in Proton Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 22290-22296.	8.0	45
13	Selfâ€assemblyâ€•and Preshapingâ€assisted Synthesis of Molybdenum Carbide Supported on Ultrathin Nitrogenâ€doped Graphitic Carbon Lamellas for the Hydrogen Evolution Reaction. ChemCatChem, 2017, 9, 1588-1593.	3.7	34
14	Preparation of highly dispersed carbon supported AuPt nanoparticles via a capping agent-free route for efficient methanol oxidation. Journal of Materials Chemistry A, 2018, 6, 104-109.	10.3	30
15	Generation of three dimensional pore-controlled nitrogen-doped graphene hydrogels for high-performance supercapacitors by employing formamide as the modulator. Journal of Materials Chemistry A, 2017, 5, 1442-1445.	10.3	29
16	Understanding the effect of interfacial interaction on metal/metal oxide electrocatalysts for hydrogen evolution and hydrogen oxidation reactions on the basis of first-principles calculations. Catalysis Science and Technology, 2020, 10, 4743-4751.	4.1	29
17	Structurally ordered PtFe intermetallic nanocatalysts toward efficient electrocatalysis of methanol oxidation. Applied Surface Science, 2021, 569, 151004.	6.1	27
18	Electronic and Physical Property Manipulations: Recent Achievements towards Heterogeneous Carbonâ€based Catalysts for Oxygen Reduction Reaction. ChemCatChem, 2019, 11, 5885-5897.	3.7	26

#	Article	IF	Citations
19	Enhancement in kinetics of the oxygen reduction on a silver catalyst by introduction of interlaces and defect-rich facets. Journal of Materials Chemistry A, 2017, 5, 15390-15394.	10.3	21
20	Achievements in Pt nanoalloy oxygen reduction reaction catalysts: strain engineering, stability and atom utilization efficiency. Chemical Communications, 2021, 57, 12898-12913.	4.1	21
21	Surface-confined Pt-based catalysts for strengthening oxygen reduction performance. Progress in Natural Science: Materials International, 2020, 30, 796-806.	4.4	19
22	A Strategy to Promote the Electrocatalytic Activity of Spinels for Oxygen Reduction by Structure Reversal. Angewandte Chemie, 2016, 128, 1362-1366.	2.0	17
23	Interfacial Water Enrichment and Reorientation on Pt/C Catalysts Induced by Metal Oxides Participation for Boosting the Hydrogen Evolution Reaction. Journal of Physical Chemistry Letters, 2022, 13, 1069-1076.	4.6	15
24	Engineering multi-hollow PtCo nanoparticles for oxygen reduction reaction via a NaCl-sealed annealing strategy. Journal of Alloys and Compounds, 2021, 884, 161063.	5.5	13
25	Ultrafine platinum nanoparticles confined in a covalent organic framework for enhanced enzyme-mimetic and electrocatalytic performances. Nanoscale, 2021, 13, 18665-18676.	5.6	13
26	The MOF/GOâ€based derivatives with Co@CoO coreâ€shell structure supported on the Nâ€doped graphene as electrocatalyst for oxygen reduction reaction. Journal of the Chinese Chemical Society, 2020, 67, 1189-1194.	1.4	11
27	Insights into the multiple effects of oxygen vacancies on CuWO4 for photoelectrochemical water oxidation. Catalysis Science and Technology, 2020, 10, 7344-7351.	4.1	10
28	Bimetallic Fe and Co supported on the Nâ€doped mesoporous carbon frameworks with enhanced oxygen reduction reaction performance via highâ€gravity technology. Journal of the Chinese Chemical Society, 2021, 68, 1047-1054.	1.4	4
29	Densely vertical-grown NiFe hydroxide nanosheets on a 3D nickel skeleton as a dendrite-free lithium anode. Chemical Communications, 2021, 57, 12988-12991.	4.1	0