Qingying Jia

List of Publications by Year in descending order

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76326 123424 9,703 61 40 61 citations h-index g-index papers 62 62 62 9539 all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	1D PtCo nanowires as catalysts for PEMFCs with low Pt loading. Science China Materials, 2022, 65, 704-711.	6.3	16
2	Experimental Sabatier plot for predictive design of active and stable Pt-alloy oxygen reduction reaction catalysts. Nature Catalysis, 2022, 5, 513-523.	34.4	57
3	Compressive Strain Reduces the Hydrogen Evolution and Oxidation Reaction Activity of Platinum in Alkaline Solution. ACS Catalysis, 2021, 11, 8165-8173.	11.2	37
4	Chemical vapour deposition of Fe–N–C oxygen reduction catalysts with full utilization of dense Fe–N4 sites. Nature Materials, 2021, 20, 1385-1391.	27.5	359
5	<i>Operando</i> X-ray absorption spectroscopy of a Pd/ \hat{I}^3 -NiOOH 2 nm cubes hydrogen oxidation catalyst in an alkaline membrane fuel cell. Catalysis Science and Technology, 2021, 11, 1337-1344.	4.1	4
6	Understanding the ORR Electrocatalysis on Co–Mn Oxides. Journal of Physical Chemistry C, 2021, 125, 25470-25477.	3.1	11
7	Evolution Pathway from Iron Compounds to Fe ₁ (II)–N ₄ Sites through Gas-Phase Iron during Pyrolysis. Journal of the American Chemical Society, 2020, 142, 1417-1423.	13.7	185
8	Interfacial water shuffling the intermediates of hydrogen oxidation and evolution reactions in aqueous media. Energy and Environmental Science, 2020, 13, 3064-3074.	30.8	80
9	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. Nano Research, 2020, 13, 3310-3314.	10.4	17
10	Atomically Dispersed MnN ₄ Catalysts <i>via</i> Environmentally Benign Aqueous Synthesis for Oxygen Reduction: Mechanistic Understanding of Activity and Stability Improvements. ACS Catalysis, 2020, 10, 10523-10534.	11.2	123
11	In Situ Identification of Non-Specific Adsorption of Alkali Metal Cations on Pt Surfaces and Their Catalytic Roles in Alkaline Solutions. ACS Catalysis, 2020, 10, 11099-11109.	11.2	27
12	Physical vapor deposition process for engineering Pt based oxygen reduction reaction catalysts on NbOx templated carbon support. Journal of Power Sources, 2020, 451, 227709.	7.8	22
13	Recent Insights into the Oxygen-Reduction Electrocatalysis of Fe/N/C Materials. ACS Catalysis, 2019, 9, 10126-10141.	11.2	295
14	g-C ₃ N ₄ promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. Journal of Materials Chemistry A, 2019, 7, 5020-5030.	10.3	152
15	Unifying the Hydrogen Evolution and Oxidation Reactions Kinetics in Base by Identifying the Catalytic Roles of Hydroxyl-Water-Cation Adducts. Journal of the American Chemical Society, 2019, 141, 3232-3239.	13.7	220
16	Palladium–Ceria Catalysts with Enhanced Alkaline Hydrogen Oxidation Activity for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2019, 2, 4999-5008.	5.1	56
17	Effect of Pyrolysis Atmosphere and Electrolyte pH on the Oxygen Reduction Activity, Stability and Spectroscopic Signature of FeN _x Moieties in Fe-N-C Catalysts. Journal of the Electrochemical Society, 2019, 166, F3311-F3320.	2.9	70
18	The Challenge of Achieving a High Density of Fe-Based Active Sites in a Highly Graphitic Carbon Matrix. Catalysts, 2019, 9, 144.	3.5	22

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19	Xâ€Ray Absorption Spectroscopy Characterizations on PGMâ€Free Electrocatalysts: Justification, Advantages, and Limitations. Advanced Materials, 2019, 31, e1805157.	21.0	48
20	Microporous Framework Induced Synthesis of Single-Atom Dispersed Fe-N-C Acidic ORR Catalyst and Its in Situ Reduced Fe-N ₄ Active Site Identification Revealed by X-ray Absorption Spectroscopy. ACS Catalysis, 2018, 8, 2824-2832.	11.2	433
21	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. Nano Letters, 2018, 18, 798-804.	9.1	162
22	Anion Resistant Oxygen Reduction Electrocatalyst in Phosphoric Acid Fuel Cell. ACS Catalysis, 2018, 8, 3833-3843.	11,2	53
23	Current understandings of the sluggish kinetics of the hydrogen evolution and oxidation reactions in base. Current Opinion in Electrochemistry, 2018, 12, 209-217.	4.8	64
24	Actualizing In Situ X-ray Absorption Spectroscopy Characterization of PEMFC-Cycled Pt-Electrodes. Journal of the Electrochemical Society, 2018, 165, F597-F603.	2.9	12
25	Synthesis of highly-active Fe–N–C catalysts for PEMFC with carbide-derived carbons. Journal of Materials Chemistry A, 2018, 6, 14663-14674.	10.3	94
26	Asymmetric Volcano Trend in Oxygen Reduction Activity of Pt and Non-Pt Catalysts: <i>In Situ</i> Identification of the Site-Blocking Effect. Journal of the American Chemical Society, 2017, 139, 1384-1387.	13.7	114
27	Highly Active and Stable Fe–N–C Catalyst for Oxygen Depolarized Cathode Applications. Langmuir, 2017, 33, 9246-9253.	3.5	23
28	Tuning Nb–Pt Interactions To Facilitate Fuel Cell Electrocatalysis. ACS Catalysis, 2017, 7, 4936-4946.	11.2	49
29	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Feâ€N Catalysts. Angewandte Chemie, 2017, 129, 8935-8938.	2.0	16
30	Metal and Metal Oxide Interactions and Their Catalytic Consequences for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2017, 139, 7893-7903.	13.7	135
31	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Feâ€N Catalysts. Angewandte Chemie - International Edition, 2017, 56, 8809-8812.	13.8	176
32	Resolving the Iron Phthalocyanine Redox Transitions for ORR Catalysis in Aqueous Media. Journal of Physical Chemistry Letters, 2017, 8, 2881-2886.	4.6	89
33	Electrochemical and In Situ Spectroscopic Evidences toward Empowering Ruthenium-Based Chalcogenides as Solid Acid Fuel Cell Cathodes. ACS Catalysis, 2017, 7, 581-591.	11.2	10
34	Experimental Proof of the Bifunctional Mechanism for the Hydrogen Oxidation in Alkaline Media. Angewandte Chemie, 2017, 129, 15800-15804.	2.0	23
35	Experimental Proof of the Bifunctional Mechanism for the Hydrogen Oxidation in Alkaline Media. Angewandte Chemie - International Edition, 2017, 56, 15594-15598.	13.8	194
36	Identification of catalytic sites in cobalt-nitrogen-carbon materials for the oxygen reduction reaction. Nature Communications, 2017, 8, 957.	12.8	443

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37	Hydrogen oxidation reaction in alkaline media: Relationship between electrocatalysis and electrochemical double-layer structure. Nano Energy, 2017, 41, 765-771.	16.0	89
38	Spectroscopic insights into the nature of active sites in iron–nitrogen–carbon electrocatalysts for oxygen reduction in acid. Nano Energy, 2016, 29, 65-82.	16.0	269
39	Engendering anion immunity in oxygen consuming cathodes based on Fe-Nx electrocatalysts: Spectroscopic and electrochemical advanced characterizations. Applied Catalysis B: Environmental, 2016, 198, 318-324.	20.2	53
40	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. Science, 2016, 354, 1414-1419.	12.6	1,292
41	Structural and mechanistic basis for the high activity of Fe–N–C catalysts toward oxygen reduction. Energy and Environmental Science, 2016, 9, 2418-2432.	30.8	472
42	Circumventing Metal Dissolution Induced Degradation of Pt-Alloy Catalysts in Proton Exchange Membrane Fuel Cells: Revealing the Asymmetric Volcano Nature of Redox Catalysis. ACS Catalysis, 2016, 6, 928-938.	11.2	63
43	Charge-Transfer Effects in Ni–Fe and Ni–Fe–Co Mixed-Metal Oxides for the Alkaline Oxygen Evolution Reaction. ACS Catalysis, 2016, 6, 155-161.	11.2	413
44	Experimental Observation of Redox-Induced Fe–N Switching Behavior as a Determinant Role for Oxygen Reduction Activity. ACS Nano, 2015, 9, 12496-12505.	14.6	499
45	Composite Ni/NiO-Cr ₂ O ₃ Catalyst for Alkaline Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2015, 119, 5467-5477.	3.1	121
46	Activity Descriptor Identification for Oxygen Reduction on Platinum-Based Bimetallic Nanoparticles: ⟨i>In Situ⟨ i> Observation of the Linear Composition–Strain–Activity Relationship. ACS Nano, 2015, 9, 387-400.	14.6	148
47	Nano-structured non-platinum catalysts for automotive fuel cell application. Nano Energy, 2015, 16, 293-300.	16.0	190
48	Highly active oxygen reduction non-platinum group metal electrocatalyst without direct metal–nitrogen coordination. Nature Communications, 2015, 6, 7343.	12.8	583
49	Spectroscopic in situ Measurements of the Relative Pt Skin Thicknesses and Porosities of Dealloyed PtMn (Ni, Co) Electrocatalysts. Journal of Physical Chemistry C, 2015, 119, 757-765.	3.1	35
50	Improved Oxygen Reduction Activity and Durability of Dealloyed PtCo _{<i>x</i>} Catalysts for Proton Exchange Membrane Fuel Cells: Strain, Ligand, and Particle Size Effects. ACS Catalysis, 2015, 5, 176-186.	11.2	119
51	The Role of OOH Binding Site and Pt Surface Structure on ORR Activities. Journal of the Electrochemical Society, 2014, 161, F1323-F1329.	2.9	32
52	Elucidating Oxygen Reduction Active Sites in Pyrolyzed Metal–Nitrogen Coordinated Non-Precious-Metal Electrocatalyst Systems. Journal of Physical Chemistry C, 2014, 118, 8999-9008.	3.1	461
53	<i>In Situ</i> Spectroscopic Evidence for Ordered Core–Ultrathin Shell Pt ₁ Co ₁ Nanoparticles with Enhanced Activity and Stability as Oxygen Reduction Electrocatalysts. Journal of Physical Chemistry C, 2014, 118, 20496-20503.	3.1	36
54	The role of electronic properties of Pt and Pt alloys for enhanced reformate electro-oxidation in polymer electrolyte membrane fuel cells. Electrochimica Acta, 2013, 107, 155-163.	5.2	42

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55	Cobalt Phthalocyanine Catalyzed Lithium-Air Batteries. Journal of the Electrochemical Society, 2013, 160, A1577-A1586.	2.9	46
56	Activity Descriptor Identification for Oxygen Reduction on Nonprecious Electrocatalysts: Linking Surface Science to Coordination Chemistry. Journal of the American Chemical Society, 2013, 135, 15443-15449.	13.7	719
57	In situ X-ray absorption spectroscopy on probing the enhanced electrochemical activity of ternary PtRu@Pb catalysts. Electrochimica Acta, 2013, 108, 288-295.	5.2	7
58	Fundamental Aspects of ad-Metal Dissolution and Contamination in Low and Medium Temperature Fuel Cell Electrocatalysis: A Cu Based Case Study Using In Situ Electrochemical X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 4585-4596.	3.1	30
59	Synthesis, Structure and Electrochemistry of Lithium Vanadium Phosphate Cathode Materials. Journal of the Electrochemical Society, 2011, 158, A1250.	2.9	59
60	Operando X-ray absorption and infrared fuel cell spectroscopy. Electrochimica Acta, 2011, 56, 8827-8832.	5.2	22
61	In situ XAFS studies of the oxygen reduction reaction on carbon supported Pt and PtNi(1:1) catalysts. Journal of Physics: Conference Series, 2009, 190, 012157.	0.4	11