

# Neighboring Pt Atom Sites in an Ultrathin FePt Nanoshell CO-Tolerant Oxygen Reduction Reaction

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Favorable Core/Shell Interface within Co <sub>2</sub> P/Pt Nanorods for Oxygen Reduction Electrocatalysis. Nano Letters, 2018, 18, 7870-7875.	4.5	68
2	Platinum single-atom catalysts: a comparative review towards effective characterization. Catalysis Science and Technology, 2019, 9, 4821-4834.	2.1	122
3	Recent progress of Pt-based catalysts for oxygen reduction reaction in preparation strategies and catalytic mechanism. Journal of Electroanalytical Chemistry, 2019, 848, 113279.	1.9	56
4	Co <sub>3</sub> O <sub>4</sub> Nanoparticles with Ultrasmall Size and Abundant Oxygen Vacancies for Boosting Oxygen Involved Reactions. Advanced Functional Materials, 2019, 29, 1903444.	7.8	108
5	In Situ Transmission Electron Microscopy Study of Nanocrystal Formation for Electrocatalysis. ChemNanoMat, 2019, 5, 1439-1455.	1.5	14
6	Atomically Dispersed Pt on Screw-like Pd/Au Core-shell Nanowires for Enhanced Electrocatalysis. Chemistry - A European Journal, 2020, 26, 4019-4024.	1.7	19
7	N-doped carbon sheets loaded with well-dispersed Ni <sub>3</sub> Fe nanoparticles as bifunctional oxygen electrode for rechargeable Zn-air battery. Journal of Electroanalytical Chemistry, 2019, 851, 113418.	1.9	11
8	Noble metal-based 1D and 2D electrocatalytic nanomaterials: Recent progress, challenges and perspectives. Nano Today, 2019, 28, 100774.	6.2	81
9	Galvanic replacement of liquid metal galinstan with Pt for the synthesis of electrocatalytically active nanomaterials. Nanoscale, 2019, 11, 9705-9715.	2.8	43
10	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. Nano Letters, 2019, 19, 3730-3736.	4.5	44
11	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. Nature Communications, 2019, 10, 1743.	5.8	430
12	Pt-Ni-P nanocages with surface porosity as efficient bifunctional electrocatalysts for oxygen reduction and methanol oxidation. Journal of Materials Chemistry A, 2019, 7, 9791-9797.	5.2	63
13	Hollow PtNi Nanochains as Highly Efficient and Stable Oxygen Reduction Reaction Catalysts. ChemistrySelect, 2019, 4, 963-971.	0.7	6
14	Shape Stability of Metallic Nanoplates: A Molecular Dynamics Study. Nanoscale Research Letters, 2019, 14, 357.	3.1	3
15	PtFe Alloy Nanoparticles Confined on Carbon Nanotube Networks as Air Cathodes for Flexible and Wearable Energy Devices. ACS Applied Nano Materials, 2019, 2, 7870-7879.	2.4	22
16	Well-Defined Nanoparticle Electrocatalysts for the Refinement of Theory. Chemical Reviews, 2020, 120, 814-850.	23.0	75
17	Structural Regulation with Atomic-Level Precision: From Single-Atomic Site to Diatomic and Atomic Interface Catalysis. Matter, 2020, 2, 78-110.	5.0	221
18	Densely Populated Single Atom Catalysts. Small Methods, 2020, 4, 1900540.	4.6	185

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19	A centimeter scale self-standing two-dimensional ultra-thin mesoporous platinum nanosheet. <i>Materials Horizons</i> , 2020, 7, 489-494.	6.4	19
20	Atomically dispersed Fe-N-C decorated with Pt-alloy core-shell nanoparticles for improved activity and durability towards oxygen reduction. <i>Energy and Environmental Science</i> , 2020, 13, 3032-3040.	15.6	185
21	Synthesis of Two-dimensional Metallic Nanosheets: From Elemental Metals to Chemically Complex Alloys. <i>ChemNanoMat</i> , 2020, 6, 1683-1711.	1.5	18
22	Manipulation of Electron Transfer between Pd and TiO <sub>2</sub> for Improved Electrocatalytic Hydrogen Evolution Reaction Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27037-27044.	4.0	13
23	Cation Exchange Strategy to Single-Atom Noble-Metal Doped CuO Nanowire Arrays with Ultralow Overpotential for H <sub>2</sub> O Splitting. <i>Nano Letters</i> , 2020, 20, 5482-5489.	4.5	93
24	Atomically Conducted Tailoring of PdAu Bimetallic Nanocrystals with Distinctive Shapes and Dimensions for Boosting the ORR Performance. <i>Chemistry - A European Journal</i> , 2020, 26, 4480-4488.	1.7	6
25	Self-stabilization of zero-dimensional PdIr nanoalloys at two-dimensional manner for boosting their OER and HER performance. <i>Applied Surface Science</i> , 2020, 510, 145408.	3.1	14
26	Sequential Synthesis and Active Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000689.	10.2	92
27	Enabling selective, room-temperature gas detection using atomically dispersed Zn. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129221.	4.0	10
28	Hierarchical defective palladium-silver alloy nanosheets for ethanol electrooxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 200-207.	5.0	41
29	Effect of an external electric field, aqueous solution and specific adsorption on segregation of Pt <sub>ML</sub> /M <sub>ML</sub> /Pt(111) (M = Cu, Pd, Au): a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1584-1589.	1.3	5
30	Interconnected surface-vacancy-rich PtFe nanowires for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12845-12852.	5.2	18
31	Advanced Platinum-Based Oxygen Reduction Electrocatalysts for Fuel Cells. <i>Accounts of Chemical Research</i> , 2021, 54, 311-322.	7.6	237
32	Few-layered MoN-MnO heterostructures with interfacial-O synergistic active centers boosting electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8325-8331.	5.2	23
33	Single-Atom Catalysts: A Sustainable Pathway for the Advanced Catalytic Applications. <i>Small</i> , 2021, 17, e2006473.	5.2	135
34	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , 2021, 4, 022004.	1.8	57
35	The Critical Impacts of Ligands on Heterogeneous Nanocatalysis: A Review. <i>ACS Catalysis</i> , 2021, 11, 6020-6058.	5.5	169
36	Neighboring Pd single atoms surpass isolated single atoms for selective hydrodehalogenation catalysis. <i>Nature Communications</i> , 2021, 12, 5179.	5.8	87

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37	Assist more Pt-O bonds of Pt/MoO <sub>3</sub> -CNT as a highly efficient and stable electrocatalyst for methanol oxidation and oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159827.	2.8	17
38	Double Active Sites in Co <sup>Ni</sup> C@Co Electrocatalysts for Simultaneous Production of Hydrogen and Carbon Monoxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38256-38265.	4.0	18
39	Large-scale synthesis of metal nanosheets as highly active catalysts: Combining accumulative roll-bonding and etching process. <i>Frontiers of Materials Science</i> , 2021, 15, 456-464.	1.1	1
40	Porous Pd/NiFeO <sub>x</sub> Nanosheets Enhance the pH-Universal Overall Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2107181.	7.8	61
41	Heterostructural Interface in Fe <sub>3</sub> C-TiN Quantum Dots Boosts Oxygen Reduction Reaction for Al-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47440-47448.	4.0	13
42	Trimetallic Au@PdPt porous core-shell structured nanowires for oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2022, 428, 131070.	6.6	17
43	Noble-metal single-atoms in thermocatalysis, electrocatalysis, and photocatalysis. <i>Energy and Environmental Science</i> , 2021, 14, 2954-3009.	15.6	188
44	Recent advances in the design of a high performance metal-nitrogen-carbon catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22218-22247.	5.2	66
45	Armoring the Pt/C Catalyst with Fine Atomic-Scale Tungsten Species to Increase Tolerance against Thermal and Fuel Cell Stresses. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	2
46	Synthesis and Design of a Highly Stable Platinum Nickel Electrocatalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 52681-52687.	4.0	14
47	Exploring Structure-function Relationship of Two-dimensional Electrocatalysts with Synchrotron Radiation X-ray Absorption Spectrum. <i>Current Chinese Science</i> , 2021, 1, 22-42.	0.2	2
48	Porous, thick nitrogen-doped carbon encapsulated large PtNi core-shell nanoparticles for oxygen reduction reaction with extreme stability and activity. <i>Carbon</i> , 2022, 186, 36-45.	5.4	15
49	First-principles calculations of CO and CH <sub>3</sub> OH adsorption on Pt monolayer modified WC (0 0 0 1) surface. <i>Computational and Theoretical Chemistry</i> , 2022, 1207, 113510.	1.1	2
50	Highly-dispersed and high-metal-density electrocatalysts on carbon supports for the oxygen reduction reaction: from nanoparticles to atomic-level architectures. <i>Materials Advances</i> , 2022, 3, 779-809.	2.6	45
51	Stability of single-atom catalysts for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5835-5849.	5.2	40
52	A multi-scale model for syngas combustion on NiO oxygen carrier for chemical looping combustion: The role of nearest neighbors. <i>Fuel Processing Technology</i> , 2022, 229, 107172.	3.7	8
53	Ultrathin two-dimensional metallenes for heterogeneous catalysis. <i>Chem Catalysis</i> , 2022, 2, 693-723.	2.9	39
54	Cooperative electrocatalytic effect of Pd and Ce alloys nanoparticles in PdCe@CNWs electrode for oxygen evolution reaction (OER). <i>Molecular Catalysis</i> , 2022, 522, 112255.	1.0	10

#	ARTICLE	IF	CITATIONS
55	Rational design and precise manipulation of nano-catalysts. Chinese Journal of Catalysis, 2022, 43, 898-912.	6.9	7
56	Redetermination of the Fe-Pt phase diagram by using diffusion couple technique combined with key alloys. International Journal of Materials Research, 2022, 113, 428-439.	0.1	7
57	Metal-metal interactions in correlated single-atom catalysts. Science Advances, 2022, 8, eabo0762.	4.7	142
58	Coordinatively Unsaturated PtCo Flowers Assembled with Ultrathin Nanosheets for Enhanced Oxygen Reduction. ACS Catalysis, 2022, 12, 6478-6485.	5.5	29
59	Two-dimensional PtPb-PbS heterostructure enables improved kinetics and highlighted bifunctional antipoisoning for methanol electrooxidation. Science China Chemistry, 2022, 65, 1112-1121.	4.2	5
60	Recent advance on structural design of high-performance Pt-based nanocatalysts for oxygen reduction reaction. , 2022, , 100022.		4
61	A perspective on the controlled synthesis of iron-based nanoalloys for the oxygen reduction reaction. Chemical Communications, 2022, 58, 8884-8899.	2.2	2
62	Selective dissolution to synthesize densely populated Pt single atom catalyst. Nano Research, 2023, 16, 219-227.	5.8	3
63	Enhancing electrical conductivity of single-atom doped Co <sub>3</sub> O <sub>4</sub> nanosheet arrays at grain boundary by phosphor doping strategy for efficient water splitting. Nano Research, 2022, 15, 9511-9519.	5.8	14
64	Outlook on Single Atom Catalysts for Persulfate-Based Advanced Oxidation. ACS ES&T Engineering, 2022, 2, 1776-1796.	3.7	57
65	Fe-N-C Boosts the Stability of Supported Platinum Nanoparticles for Fuel Cells. Journal of the American Chemical Society, 2022, 144, 20372-20384.	6.6	50
66	Rational design of noble metal-based multimetallic nanomaterials: A review. Nano Energy, 2022, 104, 107959.	8.2	8
67	Surface Anion Promotes Pt Electrocatalysts with High CO Tolerance in Fuel-Cell Performance. Journal of the American Chemical Society, 2022, 144, 22018-22025.	6.6	10
68	One-Pot Synthesis of Pt High Index Facets Catalysts for Electrocatalytic Oxidation of Ethanol. Nanomaterials, 2022, 12, 4451.	1.9	0
69	Synthesis of Platinum Nanocrystals Dispersed on Nitrogen-Doped Hierarchically Porous Carbon with Enhanced Oxygen Reduction Reaction Activity and Durability. Nanomaterials, 2023, 13, 444.	1.9	2
70	Subnanoscale Dual-Site Pd-Pt Layers Make PdPtCu Nanocrystals CO-Tolerant Bipolar Effective Electrocatalysts for Alcohol Fuel Cell Devices. Nano Letters, 2023, 23, 3467-3475.	4.5	10
71	Two-Dimensional Metal Nanostructures: From Theoretical Understanding to Experiment. Chemical Reviews, 2023, 123, 3443-3492.	23.0	11
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76	Nanoarchitectonics of Metallene Materials for Electrocatalysis. ACS Nano, 2023, 17, 13017-13043.	7.3	34
81	Oxygen reduction electrocatalysis: From conventional to single-atomic platinum-based catalysts for proton exchange membrane fuel cells. Frontiers in Energy, 0, , .	1.2	1