

Understanding Catalytic Activity Trends in the Oxygen

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Citation Report

#	ARTICLE	IF	CITATIONS
5	Single Metal Atoms Anchored in Two-Dimensional Materials: Bifunctional Catalysts for Fuel Cell Applications. <i>ChemCatChem</i> , 2018, 10, 3034-3039.	1.8	50
6	First-Principles Investigation of the Formation of Pt Nanorrafts on a Mo ₂ C Support and Their Catalytic Activity for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2229-2234.	2.1	29
7	Ultrathin Cobalt Oxide Overlayer Promotes Catalytic Activity of Cobalt Nitride for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4783-4791.	1.5	46
8	Computational predictive design for metal-decorated-graphene size-specific subnanometer to nanometer ORR catalysts. <i>Catalysis Today</i> , 2018, 312, 105-117.	2.2	13
9	Simple preparation of carbon-bimetal oxide nanospinels for high-performance bifunctional oxygen electrocatalysts. <i>New Journal of Chemistry</i> , 2018, 42, 20156-20162.	1.4	8
10	Synergistic effect of well-defined dual sites boosting the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2018, 11, 3375-3379.	15.6	528
12	Combining Experiment and Theory To Unravel the Mechanism of Two-Electron Oxygen Reduction at a Selective and Active Co-catalyst. <i>ACS Catalysis</i> , 2018, 8, 11940-11951.	5.5	45
13	Exploring the Effect of Gold Support on the Oxygen Reduction Reaction Activity of Metal Porphycenes. <i>ChemCatChem</i> , 2018, 10, 5505-5510.	1.8	6
14	Silicon-Doped Nitrogen-Coordinated Graphene as Electrocatalyst for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27233-27240.	1.5	59
15	First-principles computational approach for innovative design of highly functional electrocatalysts in fuel cells. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 225-232.	2.5	4
16	Electrostatic-Driven Activity, Loading, Dynamics, and Stability of a Redox Enzyme on Functionalized-Gold Electrodes for Bioelectrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 12004-12014.	5.5	42
17	Favorable Core/Shell Interface within Co ₂ P/Pt Nanorods for Oxygen Reduction Electrocatalysis. <i>Nano Letters</i> , 2018, 18, 7870-7875.	4.5	68
18	Theoretical Approaches to Describing the Oxygen Reduction Reaction Activity of Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29307-29318.	1.5	68
19	DFT Study of the Oxygen Reduction Reaction on Carbon-Coated Iron and Iron Carbide. <i>ACS Catalysis</i> , 2018, 8, 10521-10529.	5.5	46
20	Origins of high onset overpotential of oxygen reduction reaction at Pt-based electrocatalysts: A mini review. <i>Electrochemistry Communications</i> , 2018, 96, 71-76.	2.3	50
21	Engineering the Interface of Carbon Electrocatalysts at the Triple Point for Enhanced Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2018, 24, 18374-18384.	1.7	45
22	Recent Advances on Electrocatalysts for PEM and AEM Fuel Cells. , 2018, , 51-89.		1
23	Trimetallic (Co/Ni/Cu) Hydroxyphosphate Nanosheet Array as Efficient and Durable Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16859-16866.	3.2	22

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24	Zoom in Catalyst/Ionomer Interface in Polymer Electrolyte Membrane Fuel Cell Electrodes: Impact of Catalyst/Ionomer Dispersion Media/Solvent. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38125-38133.	4.0	47
25	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. <i>Nature Catalysis</i> , 2018, 1, 935-945.	16.1	1,075
26	Design of a Three-Dimensional Interconnected Hierarchical Micro-Mesoporous Structure of Graphene as Support Material for Spinel NiCo ₂ O ₄ Electro catalysts toward Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27469-27476.	1.5	51
27	One-Nanometer-Thick PtNiRh Trimetallic Nanowires with Enhanced Oxygen Reduction Electrocatalysis in Acid Media: Integrating Multiple Advantages into One Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 16159-16167.	6.6	160
28	Interplay between Covalent and Noncovalent Interactions in Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26910-26921.	1.5	21
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30	Emerging Materials in Heterogeneous Electrocatalysis Involving Oxygen for Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33737-33767.	4.0	52
31	Towards <i>operando</i> computational modeling in heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2018, 47, 8307-8348.	18.7	169
32	Promoting Oxygen Reduction Reaction Activity of Fe-N/C Electrocatalysts by Silica-Coating-Mediated Synthesis for Anion-Exchange Membrane Fuel Cells. <i>Chemistry of Materials</i> , 2018, 30, 6684-6701.	3.2	105
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35	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018, 52, 307-314.	8.2	176
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37	PtNi Alloy Nanoparticles Prepared by Nanocapsule Method for ORR Catalysts in Alkaline Media. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1495-1497.	2.0	4
38	Core-Shell Polydopamine@Zr-Hemin MOFs Derived Fe-N-Doped Porous Carbon Nanospheres Electrocatalysts for the Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2018, 165, H673-H679.	1.3	12
39	Kinetics of Lifetime Changes in Bimetallic Nanocatalysts Revealed by Quick X-Ray Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12430-12434.	7.2	15
40	Microscopic Electrode Processes in the Four-Electron Oxygen Reduction on Highly Active Carbon-Based Electrocatalysts. <i>ACS Catalysis</i> , 2018, 8, 8162-8176.	5.5	54
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43	Kinetics of Lifetime Changes in Bimetallic Nanocatalysts Revealed by Quick X-ray Absorption Spectroscopy. Angewandte Chemie, 2018, 130, 12610-12614.	1.6	2
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80	Contrasting Oxygen Reduction Reactions on Zero- and One-Dimensional Defects of MoS ₂ for Versatile Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46327-46336.	4.0	22
81	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. <i>Science</i> , 2019, 366, 850-856.	6.0	1,005
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83	Programmable Exposure of Pt Active Facets for Efficient Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15848-15854.	7.2	81
84	Electrocatalyst Derived from Abundant Biomass and its Excellent Activity for In Situ H ₂ O ₂ Production. <i>ChemElectroChem</i> , 2019, 6, 4877-4884.	1.7	14
85	Electrocatalytically Active Silver Organic Framework: Ag(I)â€Complex Incorporated in Activated Carbon. <i>ChemCatChem</i> , 2019, 11, 6124-6130.	1.8	13
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97	Noble metal supported hexagonal boron nitride for the oxygen reduction reaction: a DFT study. <i>Nanoscale Advances</i> , 2019, 1, 132-139.	2.2	29
98	The Effect of Gold Nanoparticle Concentration and Laser Fluence on the Laser-Induced Water Decomposition. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1869-1880.	1.2	51
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108	Promotion of hydrogen peroxide production on graphene-supported atomically dispersed platinum: Effects of size on oxygen reduction reaction pathway. <i>Journal of Power Sources</i> , 2019, 435, 226771.	4.0	40
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110	Catalysis of Oxygen Reduction Reaction on Atomically Dispersed Copper- and Nitrogen-Codoped Graphene. <i>ACS Applied Energy Materials</i> , 2019, 2, 4755-4762.	2.5	33
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112	Carbon nanotube-linked hollow carbon nanospheres doped with iron and nitrogen as single-atom catalysts for the oxygen reduction reaction in acidic solutions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14478-14482.	5.2	56
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133	Electrocatalyst derived from fungal hyphae and its excellent activity for electrochemical production of hydrogen peroxide. <i>Electrochimica Acta</i> , 2019, 308, 74-82.	2.6	33
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136	In situ embedding Co ₉ S ₈ into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 186-193.	10.8	135
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138	Changes in the oxidation state of Pt single-atom catalysts upon removal of chloride ligands and their effect for electrochemical reactions. <i>Chemical Communications</i> , 2019, 55, 6389-6392.	2.2	44
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143	Metallosupramolecular Polymer Precursor Design for Multi-Element Co-Doped Carbon Shells with Improved Oxygen Reduction Reaction Catalytic Activity. <i>Catalysts</i> , 2019, 9, 102.	1.6	4
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