

Yanxing Zhang

List of Publications by Year in descending order

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31
papers

607
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840119

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31
times ranked

1038
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient quantum dots anchored nanocomposite for highly active ORR/OER electrocatalyst of advanced metal-air batteries. <i>Nano Energy</i> , 2019, 57, 176-185.	8.2	162
2	Imaging the halogen bond in self-assembled halogenbenzenes on silver. <i>Science</i> , 2017, 358, 206-210.	6.0	150
3	Novel Bi, BiSn, Bi ₂ Sn, Bi ₃ Sn, and Bi ₄ Sn Catalysts for Efficient Electroreduction of CO ₂ to Formic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6806-6814.	1.8	32
4	The mechanism of sulfur poisoning on the nickel/yttrium-stabilized zirconia anode of solid oxide fuel cells: The role of the oxygen vacancy. <i>Journal of Power Sources</i> , 2013, 237, 128-131.	4.0	26
5	Engineering Steam Induced Surface Oxygen Vacancy onto Ni-Fe Bimetallic Nanocomposite for CO ₂ Electroreduction. <i>Small</i> , 2022, 18, e2108034.	5.2	20
6	Density functional study on the mechanism for the highly active palladium monolayer supported on titanium carbide for the oxygen reduction reaction. <i>Journal of Chemical Physics</i> , 2016, 144, 204703.	1.2	18
7	A First-Principles Study of O ₂ Dissociation on Platinum Modified Titanium Carbide: A Possible Efficient Catalyst for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21333-21342.	1.5	18
8	Understanding on the carbon deposition on the Nickel/Yttrium-Stabilized Zirconia anode caused by the CO containing fuels. <i>Journal of Power Sources</i> , 2015, 279, 759-765.	4.0	14
9	Resistance to sulfur poisoning of the gold doped nickel/yttria-stabilized zirconia with interface oxygen vacancy. <i>Journal of Power Sources</i> , 2014, 271, 516-521.	4.0	13
10	First principles study on the adsorption of Au dimer on metal-oxide surfaces: The implications for Au growing. <i>Applied Surface Science</i> , 2017, 426, 554-561.	3.1	13
11	Advantageous Configurative Heteroatoms-Doped Carbon Foams Design and Application for Ultrahigh-Powered Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 731-738.	3.2	13
12	The sulfur poisoning of the nickel/oxygen-enriched yttria-stabilized zirconia. <i>Journal of Power Sources</i> , 2015, 293, 635-641.	4.0	11
13	Resistance to sulfur poisoning of Ni-based alloy with coinage (IB) metals. <i>Applied Surface Science</i> , 2015, 357, 1785-1791.	3.1	11
14	Imaging van der Waals Interactions. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5205-5211.	2.1	11
15	High activity of Au monolayer doped by Pt atom on WC (0001) surface towards H ₂ dissociation and high tolerance of sulfur poisoning. <i>Journal of Alloys and Compounds</i> , 2019, 775, 330-334.	2.8	10
16	The first principles study of the sulfur oxidation on Ni surface with H ₂ O. <i>Journal of Alloys and Compounds</i> , 2018, 741, 1183-1187.	2.8	9
17	Ag monolayer doped by Pt atom on WC (0001) surface: A good catalyst for H ₂ dissociation with high sulfur tolerance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3115-3120.	3.8	9
18	High Stability and Reactivity of Single-Metal Atom Catalysts Supported on Yttria-Stabilized Zirconia: The Role of the Surface Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1622-1630.	1.5	8

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19	The mechanism of the high resistance to sulfur poisoning of the rhenium doped nickel/yttria-stabilized zirconia. <i>Applied Surface Science</i> , 2018, 447, 561-568.	3.1	8
20	Efficient band structure engineering and visible-light response in ZrS ₂ /GaS heterobilayer by electrical field or external strains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2969-2973.	0.9	8
21	Confinement-Induced Catalytic Dissociation of Hydrogen Molecules in a Scanning Tunneling Microscope. <i>Journal of the American Chemical Society</i> , 2022, 144, 9618-9623.	6.6	7
22	Efficient noble metal nanocatalysts supported on HfC(001) for O ₂ dissociation. <i>AIP Advances</i> , 2017, 7, .	0.6	6
23	First-principles study for the enhanced sulfur tolerance of Ni(111) surface alloyed with Pb. <i>Surface Science</i> , 2018, 670, 68-71.	0.8	6
24	Enhanced sulfur resistance of Ni(111) surface alloyed with Ge: A first principles study. <i>Surface Science</i> , 2018, 677, 115-120.	0.8	6
25	The origin of the low efficiency of carbon removal from the Nickel/Yttrium-Stabilized Zirconia triple-phase boundary by adsorbed water. <i>Journal of Power Sources</i> , 2015, 279, 224-230.	4.0	4
26	A possible highly active supported Ni dimer catalyst for O ₂ dissociation: A first-principles study. <i>Applied Surface Science</i> , 2017, 402, 168-174.	3.1	4
27	A theoretical study of sulfur poisoning tolerance at the interface of Mo doped Ni/Yttria-Stabilized Zirconia. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21075-21081.	3.8	3
28	Role of Pr-Vacancies and O-Interstitials on the Activity and Stability of (Pr _{1-x} Ln _x) ₂ NiO ₄ (Ln = La, Nd, Pm, Sm, Gd, Tb, Dy, and Tm) <i>Journal of Physical Chemistry C</i> , 2018, 122, 12450-12458.	1.3	3
29	Efficient band structure engineering and visible-light response in SnS ₂ /GaS heterostructure by electric field and biaxial strain. <i>Superlattices and Microstructures</i> , 2019, 134, 106210.	1.4	2
30	High resistance to sulfur poisoning of Ni with copper skin under electric field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 671-678.	0.9	1
31	Magnetic phase transition of monolayer chromium trihalides investigated with machine learning: toward a universal magnetic Hamiltonian. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 395901.	0.7	1