

Xiaofang Yang

List of Publications by Year in descending order

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papers

2,258
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331670

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41
times ranked

3794
citing authors

#	ARTICLE	IF	CITATIONS
1	Molybdenum Carbide as Alternative Catalysts to Precious Metals for Highly Selective Reduction of CO ₂ to CO. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6705-6709.	13.8	329
2	CO ₂ Hydrogenation over Oxide-Supported PtCo Catalysts: The Role of the Oxide Support in Determining the Product Selectivity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7968-7973.	13.8	261
3	Improving Electrocatalysts for O ₂ Reduction by Fine-Tuning the Pt~Support Interaction: Pt Monolayer on the Surfaces of a Pd ₃ Fe(111) Single-Crystal Alloy. <i>Journal of the American Chemical Society</i> , 2009, 131, 12755-12762.	13.7	224
4	Low Pressure CO ₂ Hydrogenation to Methanol over Gold Nanoparticles Activated on a CeO _x /TiO ₂ Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 10104-10107.	13.7	200
5	Activity of pure and transition metal-modified CoOOH for the oxygen evolution reaction in an alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017, 5, 842-850.	10.3	158
6	Minimal architecture zinc-bromine battery for low cost electrochemical energy storage. <i>Energy and Environmental Science</i> , 2017, 10, 114-120.	30.8	107
7	Dry Reforming of Ethane and Butane with CO ₂ over PtNi/CeO ₂ Bimetallic Catalysts. <i>ACS Catalysis</i> , 2016, 6, 7283-7292.	11.2	103
8	Increasing Iridium Oxide Activity for the Oxygen Evolution Reaction with Hafnium Modification. <i>Journal of the American Chemical Society</i> , 2021, 143, 15616-15623.	13.7	82
9	Electrochemical and spectroscopic study of novel Cu and Fe-based catalysts for oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2012, 213, 169-179.	7.8	76
10	A novel CuFe-based catalyst for the oxygen reduction reaction in alkaline media. <i>Journal of Power Sources</i> , 2011, 196, 7404-7410.	7.8	72
11	Activation of Tungsten Carbide Catalysts by Use of an Oxygen Plasma Pretreatment. <i>ACS Catalysis</i> , 2012, 2, 765-769.	11.2	67
12	Direct Epoxidation of Propylene over Stabilized Cu ⁺ Surface Sites on Titanium-Modified Cu ₂ O. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11946-11951.	13.8	62
13	Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for hydrogen evolution and oxidation reactions. <i>Nature Communications</i> , 2019, 10, 1543.	12.8	50
14	Controlling Acetylene Adsorption and Reactions on Pt-Sn Catalytic Surfaces. <i>ACS Catalysis</i> , 2013, 3, 1149-1153.	11.2	43
15	CO ₂ Hydrogenation over Oxide-Supported PtCo Catalysts: The Role of the Oxide Support in Determining the Product Selectivity. <i>Angewandte Chemie</i> , 2016, 128, 8100-8105.	2.0	41
16	Geometric Requirements for Hydrocarbon Catalytic Sites on Platinum Surfaces. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3641-3644.	13.8	39
17	Highly Stable Pt-Au@Ru/C Catalyst Nanoparticles for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1457-1467.	3.1	36
18	Role of Surface Iron in Enhanced Activity for the Oxygen Reduction Reaction on a Pd ₃ Fe(111) Single-Crystal Alloy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10182-10185.	13.8	33

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19	<i>In Situ</i> Identification of NNH and N ₂ H ₂ by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH ₃ Synthesis. ACS Energy Letters, 2022, 7, 53-58.	17.4	25
20	Flame Aerosol Synthesis and Electrochemical Characterization of Ni-Rich Layered Cathode Materials for Li-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1319-1329.	5.1	23
21	Pyrolysis and Oxidation of Methane in a RF Plasma Reactor. Plasma Chemistry and Plasma Processing, 2017, 37, 1551-1571.	2.4	21
22	Nanofaceted C/Re(112̄...1): Fabrication, Structure, and Template for Synthesizing Nanostructured Model Pt Electrocatalyst for Hydrogen Evolution Reaction. ACS Nano, 2012, 6, 1404-1409.	14.6	18
23	Effects of non-equilibrium excitation on methane oxidation in a low-temperature RF discharge. Journal Physics D: Applied Physics, 2020, 53, 064001.	2.8	14
24	Acetic Acid Adsorption and Reactions on Ni(110). Langmuir, 2020, 36, 8705-8715.	3.5	14
25	Propane Dehydrogenation to Propylene and Propylene Adsorption on Ni and NiSn Catalysts. ChemCatChem, 2022, 14, .	3.7	13
26	Controlled Dy-doping to nickel-rich cathode materials in high temperature aerosol synthesis. Proceedings of the Combustion Institute, 2021, 38, 6623-6630.	3.9	11
27	Theoretical and Experimental Studies of Ethanol Decomposition and Electrooxidation over Pt-Modified Tungsten Carbide. Journal of the Electrochemical Society, 2014, 161, E3165-E3170.	2.9	10
28	Balancing Activity and Stability in a Ternary AuPd/Fe Electrocatalyst for ORR with High Surface Coverages of Au. ChemCatChem, 2019, 11, 693-697.	3.7	9
29	Formation of Pd Monomers and Dimers on a Single-Crystal Pd ₃ Fe(111) Surface. Journal of Physical Chemistry Letters, 2010, 1, 2493-2497.	4.6	5
30	Shear-Induced Changes of Electronic Properties in Gallium Nitride. ACS Applied Materials & Interfaces, 2018, 10, 29048-29057.	8.0	5
31	Promoting Si-graphite composite anodes with SWCNT additives for half and NCM811 full lithium ion batteries and assessment criteria from an industrial perspective. Frontiers in Energy, 2019, 13, 626-635.	2.3	4
32	Hydrogenation of CO on Ni(110) by Energetic Deuterium. Journal of Physical Chemistry C, 2018, 122, 14671-14677.	3.1	2
33	Theoretical Study of Carbon Adsorption on Re Surfaces: Morphological Instability. Catalysis Letters, 2014, 144, 1667-1673.	2.6	1
34	Frontispiece: Direct Epoxidation of Propylene over Stabilized Cu+Surface Sites on Titanium-Modified Cu ₂ O. Angewandte Chemie - International Edition, 2015, 54, n/a-n/a.	13.8	1
35	Surface Structure of Pd ₃ Fe(111) and Effects of Oxygen Adsorption. Materials Research Society Symposia Proceedings, 2009, 1217, 1.	0.1	0
36	Frontispiz: Direct Epoxidation of Propylene over Stabilized Cu+Surface Sites on Titanium-Modified Cu ₂ O. Angewandte Chemie, 2015, 127, n/a-n/a.	2.0	0