

Huan Yan

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

4,986
citations

257450

24
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

6488
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Atom Pd ₁ /Graphene Catalyst Achieved by Atomic Layer Deposition: Remarkable Performance in Selective Hydrogenation of 1,3-Butadiene. <i>Journal of the American Chemical Society</i> , 2015, 137, 10484-10487.	13.7	905
2	Atomically dispersed platinum supported on curved carbon supports for efficient electrocatalytic hydrogen evolution. <i>Nature Energy</i> , 2019, 4, 512-518.	39.5	756
3	Bottom-up precise synthesis of stable platinum dimers on graphene. <i>Nature Communications</i> , 2017, 8, 1070.	12.8	466
4	Atomically dispersed iron hydroxide anchored on Pt for preferential oxidation of CO in H ₂ . <i>Nature</i> , 2019, 565, 631-635.	27.8	423
5	Water-Mediated Mars-van Krevelen Mechanism for CO Oxidation on Ceria-Supported Single-Atom Pt ₁ Catalyst. <i>ACS Catalysis</i> , 2017, 7, 887-891.	11.2	407
6	Atomic-Level Insight into Optimizing the Hydrogen Evolution Pathway over a Co ₁ N ₄ Single-Site Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12191-12196.	13.8	269
7	Single-atom catalysts and their applications in organic chemistry. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8793-8814.	10.3	174
8	Hollow Metal-Organic Framework Nanospheres via Emulsion-Based Interfacial Synthesis and Their Application in Size-Selective Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18163-18171.	8.0	159
9	Tandem In ₂ O ₃ -Pt/Al ₂ O ₃ catalyst for coupling of propane dehydrogenation to selective H ₂ combustion. <i>Science</i> , 2021, 371, 1257-1260.	12.6	148
10	Atomic engineering of high-density isolated Co atoms on graphene with proximal-atom controlled reaction selectivity. <i>Nature Communications</i> , 2018, 9, 3197.	12.8	146
11	Precisely-controlled synthesis of Au@Pd core-shell bimetallic catalyst via atomic layer deposition for selective oxidation of benzyl alcohol. <i>Journal of Catalysis</i> , 2015, 324, 59-68.	6.2	133
12	Ultrafast Electrochemical Expansion of Black Phosphorus toward High-Yield Synthesis of Few-Layer Phosphorene. <i>Chemistry of Materials</i> , 2018, 30, 2742-2749.	6.7	132
13	Engineering Local and Global Structures of Single Co Atoms for a Superior Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 5862-5870.	11.2	126
14	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. <i>Nature Communications</i> , 2020, 11, 4389.	12.8	110
15	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>ACS Catalysis</i> , 2021, 11, 4498-4509.	11.2	94
16	Precisely Controlled Porous Alumina Overcoating on Pd Catalyst by Atomic Layer Deposition: Enhanced Selectivity and Durability in Hydrogenation of 1,3-Butadiene. <i>ACS Catalysis</i> , 2015, 5, 2735-2739.	11.2	79
17	Revisiting the Au Particle Size Effect on TiO ₂ -Coated Au/TiO ₂ Catalysts in CO Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9174-9183.	3.1	76
18	Understanding the underlying mechanism of improved selectivity in Pd ₁ single-atom catalyzed hydrogenation reaction. <i>Journal of Catalysis</i> , 2018, 366, 70-79.	6.2	70

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19	Precisely Applying TiO ₂ Overcoat on Supported Au Catalysts Using Atomic Layer Deposition for Understanding the Reaction Mechanism and Improved Activity in CO Oxidation. Journal of Physical Chemistry C, 2016, 120, 478-486.	3.1	66
20	Toward Understanding of the Support Effect on Pd ₁ Single-Atom-Catalyzed Hydrogenation Reactions. Journal of Physical Chemistry C, 2019, 123, 7922-7930.	3.1	63
21	Promoted Glycerol Oxidation Reaction in an Interface-Confined Hierarchically Structured Catalyst. Advanced Materials, 2019, 31, e1804763.	21.0	40
22	Atomic-Level Insight into Optimizing the Hydrogen Evolution Pathway over a Co ₁ -N ₄ Single-Site Photocatalyst. Angewandte Chemie, 2017, 129, 12359-12364.	2.0	36
23	Maximizing the utility of single atom electrocatalysts on a 3D graphene nanomesh. Journal of Materials Chemistry A, 2019, 7, 15575-15579.	10.3	34
24	Expedient synthesis of <i>E</i> -hydrazone esters and 1 <i>H</i> -indazole scaffolds through heterogeneous single-atom platinum catalysis. Science Advances, 2019, 5, eaay1537.	10.3	31
25	Identifying Boron Active Sites for the Oxidative Dehydrogenation of Propane. ACS Catalysis, 2021, 11, 9370-9376.	11.2	27
26	Coating Pd/Al ₂ O ₃ catalysts with FeO _x enhances both activity and selectivity in 1,3-butadiene hydrogenation. Chinese Journal of Catalysis, 2017, 38, 1581-1587.	14.0	16