Xiaofeng Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	11,751 citations	201385 27 h-index	288905 40 g-index
42 all docs	42 docs citations	42 times ranked	10749 citing authors

#	Article	IF	Citations
1	Single-atom catalysis of CO oxidation using Pt1/FeOx. Nature Chemistry, 2011, 3, 634-641.	6.6	5,149
2	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. Nature Communications, 2014, 5, 5634.	5.8	890
3	Remarkable Performance of Ir₁/FeO_x Single-Atom Catalyst in Water Gas Shift Reaction. Journal of the American Chemical Society, 2013, 135, 15314-15317.	6.6	811
4	Discriminating Catalytically Active FeN_x Species of Atomically Dispersed Feâ€“Nâ€“C Catalyst for Selective Oxidation of the Câ€“H Bond. Journal of the American Chemical Society, 2017, 139, 10790-10798.	6.6	738
5	State of the art and perspectives in heterogeneous catalysis of CO₂ hydrogenation to methanol. Chemical Society Reviews, 2020, 49, 1385-1413.	18.7	605
6	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ACS Catalysis, 2015, 5, 3717-3725.	5.5	545
7	PdZn Intermetallic Nanostructure with Pdâ€“Znâ€“Pd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. ACS Catalysis, 2016, 6, 1054-1061.	5.5	334
8	In Situ/Operando Techniques for Characterization of Single-Atom Catalysts. ACS Catalysis, 2019, 9, 2521-2531.	5.5	296
9	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. ACS Catalysis, 2014, 4, 1546-1553.	5.5	221
10	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N₃ as an Active Site for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 14530-14539.	6.6	218
11	Supported Nobleâ€Metal Single Atoms for Heterogeneous Catalysis. Advanced Materials, 2019, 31, e1902031.	11.1	207
12	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. Journal of the American Chemical Society, 2022, 144, 12062-12071.	6.6	192
13	Direct catalytic hydrogenation of CO2 to formate over a Schiff-base-mediated gold nanocatalyst. Nature Communications, 2017, 8, 1407.	5.8	177
14	A Schiff base modified gold catalyst for green and efficient H₂ production from formic acid. Energy and Environmental Science, 2015, 8, 3204-3207.	15.6	166
15	Cerium-Oxide-Modified Nickel as a Non-Noble Metal Catalyst for Selective Decomposition of Hydrous Hydrazine to Hydrogen. ACS Catalysis, 2015, 5, 1623-1628.	5.5	143
16	Catalytically Active Rh Subâ€Nanoclusters on TiO₂ for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie - International Edition, 2016, 55, 2820-2824.	7.2	127
17	Aerobic oxidative coupling of alcohols and amines over Auâ€“Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. Green Chemistry, 2013, 15, 2680.	4.6	114
18	Tuning reactivity of Fischerâ€“Tropsch synthesis by regulating TiOx overlayer over Ru/TiO2 nanocatalysts. Nature Communications, 2020, 11, 3185.	5.8	114

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19	Ru/TiO₂ Catalysts with Size-Dependent Metal/Support Interaction for Tunable Reactivity in Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2020, 10, 12967-12975.	5.5	83
20	A systematic theoretical study on FeOx-supported single-atom catalysts: M1/FeOx for CO oxidation. Nano Research, 2018, 11, 1599-1611.	5.8	75
21	A Schiff base-modified silver catalyst for efficient fixation of CO₂ as carboxylic acid at ambient pressure. Green Chemistry, 2017, 19, 2080-2085.	4.6	65
22	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. ACS Catalysis, 2020, 10, 13624-13629.	5.5	63
23	Strong Metalâ€“Support Interaction of Ru on TiO₂ Derived from the Co-Reduction Mechanism of Ru_xTi_{1â€“x}O₂ Interphase. ACS Catalysis, 2022, 12, 1697-1705.	5.5	49
24	Pd/ZnO catalysts with different origins for high chemoselectivity in acetylene semi-hydrogenation. Chinese Journal of Catalysis, 2016, 37, 692-699.	6.9	46
25	Tuning selectivity of CO₂ hydrogenation by modulating the strong metalâ€“support interaction over Ir/TiO₂ catalysts. Green Chemistry, 2020, 22, 6855-6861.	4.6	42
26	Supported Au-Ni nano-alloy catalysts for the chemoselective hydrogenation of nitroarenes. Chinese Journal of Catalysis, 2015, 36, 160-167.	6.9	37
27	Catalytically Active Rh Subâ€Nanoclusters on TiO₂ for CO Oxidation at Cryogenic Temperatures. Angewandte Chemie, 2016, 128, 2870-2874.	1.6	31
28	Catalytic production of low-carbon footprint sustainable natural gas. Nature Communications, 2022, 13, 258.	5.8	26
29	Reactivity of Methanol Steam Reforming on ZnPd Intermetallic Catalyst: Understanding from Microcalorimetric and FT-IR Studies. Journal of Physical Chemistry C, 2018, 122, 12395-12403.	1.5	25
30	CH4 dissociation and C C coupling on Mo-terminated MoC surfaces: A DFT study. Catalysis Today, 2020, 339, 54-61.	2.2	24
31	Introducing Coâ€“O Moiety to Coâ€“Nâ€“C Single-Atom Catalyst for Ethylbenzene Dehydrogenation. ACS Catalysis, 2022, 12, 7760-7772.	5.5	23
32	Catalytic ativities of single-atom catalysts for CO oxidation: Pt 1 /FeO x vs . Fe 1 /FeO x. Chinese Journal of Catalysis, 2017, 38, 1566-1573.	6.9	22
33	Unraveling the real active sites of an amorphous silicaâ€“alumina-supported nickel catalyst for highly efficient ethylene oligomerization. Catalysis Science and Technology, 2021, 11, 1510-1518.	2.1	16
34	Optimization and simulation of the Sabatier reaction process in a packed bed. AICHE Journal, 2016, 62, 2879-2892.	1.8	14
35	BaWO₄:Ln³⁺ Nanocrystals: Controllable Synthesis, Theoretical Investigation on the Substitution Site, and Bright Upconversion Luminescence as a Sensor for Glucose Detection. ACS Applied Nano Materials, 2018, 1, 4762-4770.	2.4	14
36	Surface chemistry and reactivity of Î±-MoO3 toward methane: A SCAN-functional based DFT study. Journal of Chemical Physics, 2019, 151, 044708.	1.2	14

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37	A DFT study of methane conversion on Mo-terminated Mo2C carbides: Carburization vs Câ€“C coupling. Catalysis Today, 2021, 368, 140-147.	2.2	14
38	Synthesis of Subnanometerâ€Sized Gold Clusters by a Simple Millingâ€Mediated Solid Reduction Method. Chinese Journal of Chemistry, 2018, 36, 329-332.	2.6	10
39	DFT Study of Methane Activation and Coupling on the (0001) and (112Ì…0) Surfaces of Î±-WC. Journal of Physical Chemistry C, 2020, 124, 26722-26729.	1.5	10
40	RÃ¼cktitelbild: Catalytically Active Rh Subâ€Nanoclusters on TiO₂ for CO Oxidation at Cryogenic Temperatures (Angew. Chem. 8/2016). Angewandte Chemie, 2016, 128, 2998-2998.	1.6	0