Xiaofeng Yang

List of Publications by Year in Descending Order

38 papers	7,733 citations	23 h-index	42 g-index
42 ext. papers	9,621 ext. citations	13 avg, IF	5.9 L-index

#	Paper	IF	Citations
38	Catalytic production of low-carbon footprint sustainable natural gas.. *Nature Communications*, **2022**, 13, 258	17.4	0
37	Strong Metal–Support Interaction of Ru on TiO2 Derived from the Co-Reduction Mechanism of RuxTi1−xO2 Interphase. *ACS Catalysis*, **2022**, 12, 1697-1705	13.1	4
36	A DFT study of methane conversion on Mo-terminated Mo2C carbides: Carburization vs C–C coupling. *Catalysis Today*, **2021**, 368, 140-147	5.3	6
35	Unraveling the real active sites of an amorphous silica–alumina-supported nickel catalyst for highly efficient ethylene oligomerization. *Catalysis Science and Technology*, **2021**, 11, 1510-1518	5.5	7
34	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N as an Active Site for the Oxygen Reduction Reaction. *Journal of the American Chemical Society*, **2021**, 143, 14530-14539	16.4	49
33	Tuning reactivity of Fischer-Tropsch synthesis by regulating TiO overlayer over Ru/TiO nanocatalysts. *Nature Communications*, **2020**, 11, 3185	17.4	43
32	State of the art and perspectives in heterogeneous catalysis of CO hydrogenation to methanol. *Chemical Society Reviews*, **2020**, 49, 1385-1413	58.5	274
31	Tuning selectivity of CO2 hydrogenation by modulating the strong metal–support interaction over Ir/TiO2 catalysts. *Green Chemistry*, **2020**, 22, 6855-6861	10	11
30	Hierarchical Echinus-like Cu-MFI Catalysts for Ethanol Dehydrogenation. *ACS Catalysis*, **2020**, 10, 13624-13629	13.1	14
29	Ru/TiO2 Catalysts with Size-Dependent Metal/Support Interaction for Tunable Reactivity in Fischer–Tropsch Synthesis. *ACS Catalysis*, **2020**, 10, 12967-12975	13.1	34
28	DFT Study of Methane Activation and Coupling on the (0001) and (112 0) Surfaces of δ-WC. *Journal of Physical Chemistry C*, **2020**, 124, 26722-26729	3.8	5
27	CH4 dissociation and CC coupling on Mo-terminated MoC surfaces: A DFT study. *Catalysis Today*, **2020**, 339, 54-61	5.3	12
26	In Situ/Operando Techniques for Characterization of Single-Atom Catalysts. *ACS Catalysis*, **2019**, 9, 2521-2531	13.1	173
25	Surface chemistry and reactivity of δ-MoO toward methane: A SCAN-functional based DFT study. *Journal of Chemical Physics*, **2019**, 151, 044708	3.9	8
24	Supported Noble-Metal Single Atoms for Heterogeneous Catalysis. *Advanced Materials*, **2019**, 31, e1902031	21	115
23	Synthesis of Subnanometer-Sized Gold Clusters by a Simple Milling-Mediated Solid Reduction Method. *Chinese Journal of Chemistry*, **2018**, 36, 329-332	4.9	10
22	A systematic theoretical study on FeOx-supported single-atom catalysts: M1/FeOx for CO oxidation. *Nano Research*, **2018**, 11, 1599-1611	10	56

21	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	5.6	8
20	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	3.8	15
19	A Schiff base-modified silver catalyst for efficient fixation of CO2 as carboxylic acid at ambient pressure. *Green Chemistry*, **2017**, 19, 2080-2085	10	44
18	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	11.3	13
17	Discriminating Catalytically Active FeN Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. *Journal of the American Chemical Society*, **2017**, 139, 10790-10798	16.4	499
16	Direct catalytic hydrogenation of CO to formate over a Schiff-base-mediated gold nanocatalyst. *Nature Communications*, **2017**, 8, 1407	17.4	117
15	Optimization and simulation of the Sabatier reaction process in a packed bed. *AICHE Journal*, **2016**, 62, 2879-2892	3.6	11
14	Catalytically Active Rh Sub-Nanoclusters on TiO2 for CO Oxidation at Cryogenic Temperatures. *Angewandte Chemie*, **2016**, 128, 2870-2874	3.6	29
13	PdZn Intermetallic Nanostructure with Pd□Zn□Pd Ensembles for Highly Active and Chemoselective Semi-Hydrogenation of Acetylene. *ACS Catalysis*, **2016**, 6, 1054-1061	13.1	234
12	Catalytically Active Rh Sub-Nanoclusters on TiO2 for CO Oxidation at Cryogenic Temperatures. *Angewandte Chemie - International Edition*, **2016**, 55, 2820-4	16.4	103
11	R□cktitelbild: Catalytically Active Rh Sub-Nanoclusters on TiO2 for CO Oxidation at Cryogenic Temperatures (Angew. Chem. 8/2016). *Angewandte Chemie*, **2016**, 128, 2998-2998	3.6	
10	Pd/ZnO catalysts with different origins for high chemoselectivity in acetylene semi-hydrogenation. *Chinese Journal of Catalysis*, **2016**, 37, 692-699	11.3	31
9	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. *ACS Catalysis*, **2015**, 5, 3717-3725	13.1	400
8	A Schiff base modified gold catalyst for green and efficient H2 production from formic acid. *Energy and Environmental Science*, **2015**, 8, 3204-3207	35.4	126
7	Supported Au-Ni nano-alloy catalysts for the chemoselective hydrogenation of nitroarenes. *Chinese Journal of Catalysis*, **2015**, 36, 160-167	11.3	35
6	Cerium-Oxide-Modified Nickel as a Non-Noble Metal Catalyst for Selective Decomposition of Hydrous Hydrazine to Hydrogen. *ACS Catalysis*, **2015**, 5, 1623-1628	13.1	109
5	Efficient and Durable Au Alloyed Pd Single-Atom Catalyst for the Ullmann Reaction of Aryl Chlorides in Water. *ACS Catalysis*, **2014**, 4, 1546-1553	13.1	184
4	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. *Nature Communications*, **2014**, 5, 5634	17.4	708

3	Aerobic oxidative coupling of alcohols and amines over Au-Pd/resin in water: Au/Pd molar ratios switch the reaction pathways to amides or imines. *Green Chemistry*, **2013**, 15, 2680	10	96
2	Remarkable performance of Ir1/FeO(x) single-atom catalyst in water gas shift reaction. *Journal of the American Chemical Society*, **2013**, 135, 15314-7	16.4	646
1	Single-atom catalysis of CO oxidation using Pt1/FeOx. *Nature Chemistry*, **2011**, 3, 634-41	17.6	3489