Bart Zijlstra

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4330389/publications.pdf

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22	1,112	430874	677142
papers	citations	18 h-index	22 g-index

23	23	23	1652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimum Cu nanoparticle catalysts for CO2 hydrogenation towards methanol. Nano Energy, 2018, 43, 200-209.	16.0	133
2	Efficient Base-Metal NiMn/TiO₂ Catalyst for CO₂ Methanation. ACS Catalysis, 2019, 9, 7823-7839.	11.2	124
3	Understanding carbon dioxide activation and carbonâ€“carbon coupling over nickel. Nature Communications, 2019, 10, 5330.	12.8	124
4	Theoretical Approach To Predict the Stability of Supported Single-Atom Catalysts. ACS Catalysis, 2019, 9, 3289-3297.	11.2	101
5	Influence of Carbon Deposits on the Cobalt-Catalyzed Fischerâ€“Tropsch Reaction: Evidence of a Two-Site Reaction Model. ACS Catalysis, 2018, 8, 1580-1590.	11.2	61
6	An Active Alkali-Exchanged Faujasite Catalyst for p-Xylene Production via the One-Pot Dielsâ€“Alder Cycloaddition/Dehydration Reaction of 2,5-Dimethylfuran with Ethylene. ACS Catalysis, 2018, 8, 760-769.	11.2	54
7	Mechanism of Cobalt-Catalyzed CO Hydrogenation: 1. Methanation. ACS Catalysis, 2017, 7, 8050-8060.	11.2	53
8	Optimum Particle Size for Gold-Catalyzed CO Oxidation. Journal of Physical Chemistry C, 2018, 122, 8327-8340.	3.1	45
9	Improved Pd/CeO₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO₂ Lattice Oxygen by Fe Doping. ACS Catalysis, 2021, 11, 5614-5627.	11.2	44
10	Mechanism of Carbon Monoxide Dissociation on a Cobalt Fischerâ€“Tropsch Catalyst. ChemCatChem, 2018, 10, 136-140.	3.7	39
11	Coverage Effects in CO Dissociation on Metallic Cobalt Nanoparticles. ACS Catalysis, 2019, 9, 7365-7372.	11.2	37
12	The Vital Role of Step-Edge Sites for Both CO Activation and Chain Growth on Cobalt Fischerâ€“Tropsch Catalysts Revealed through First-Principles-Based Microkinetic Modeling Including Lateral Interactions. ACS Catalysis, 2020, 10, 9376-9400.	11.2	37
13	Quantum-Chemical DFT Study of Direct and H- and C-Assisted CO Dissociation on the Ï‡-Fe₅C₂ HÃgg Carbide. Journal of Physical Chemistry C, 2018, 122, 9929-9938.	3.1	34
14	First-principles microkinetics simulations of electrochemical reduction of CO2 over Cu catalysts. Electrochimica Acta, 2020, 335, 135665.	5.2	32
15	First-principles based microkinetic modeling of transient kinetics of CO hydrogenation on cobalt catalysts. Catalysis Today, 2020, 342, 131-141.	4.4	29
16	Enumerating Active Sites on Metal Nanoparticles: Understanding the Size Dependence of Cobalt Particles for CO Dissociation. ACS Catalysis, 2021, 11, 8484-8492.	11.2	26
17	A theoretical study of the reverse waterâ€gas shift reaction on Ni(111) and Ni(311) surfaces. Canadian Journal of Chemical Engineering, 2020, 98, 740-748.	1.7	25
18	Kinetic aspects of chain growth in Fischerâ€“Tropsch synthesis. Faraday Discussions, 2017, 197, 153-164.	3.2	18

#	Article	IF	Citations
19	A quantum-chemical study of the CO dissociation mechanism on low-index Miller planes of Ï´-Fe3C. Catalysis Today, 2020, 342, 152-160.	4.4	15
20	A quantum-chemical DFT study of CO dissociation on Fe-promoted stepped Rh surfaces. Catalysis Today, 2016, 275, 111-118.	4.4	12
21	Quantum-chemical-based microkinetics simulations of syngas conversion over MoS2(1â€¯0â€¯0) surface. Chemical Engineering Science, 2019, 198, 166-183.	3.8	5
22	Mechanism of Carbon Monoxide Dissociation on a Cobalt Fischer-Tropsch Catalyst. ChemCatChem, 2018, 10, 5-5.	3.7	1