

Benjamin Wei Jie Chen

List of Publications by Year in descending order

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16
papers

670
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840776

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817
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Synergistic Effect of Re and Cs Promoters on Ethylene Epoxidation over Silver Catalysts with Machine Learning-Accelerated First-Principles Simulations. ACS Catalysis, 2022, 12, 2540-2551.	11.2	13
2	An automated cluster surface scanning method for exploring reaction paths on metal-cluster surfaces. Computational Materials Science, 2021, 186, 110010.	3.0	10
3	Computational Methods in Heterogeneous Catalysis. Chemical Reviews, 2021, 121, 1007-1048.	47.7	198
4	Role of Hydrogen-bonded Bimolecular Formic Acid-Formate Complexes for Formic Acid Decomposition on Copper: A Combined First-Principles and Microkinetic Modeling Study. ACS Catalysis, 2021, 11, 4349-4361.	11.2	19
5	How coverage influences thermodynamic and kinetic isotope effects for H ₂ /D ₂ dissociative adsorption on transition metals. Catalysis Science and Technology, 2020, 10, 671-689.	4.1	26
6	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie, 2020, 132, 20358-20366.	2.0	22
7	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 20183-20191.	13.8	175
8	Exploring driving forces for length growth in graphene nanoribbons during chemical vapor deposition of hydrocarbons on Ge(001) via kinetic Monte Carlo simulations. Applied Surface Science, 2020, 527, 146784.	6.1	8
9	Formic Acid: A Hydrogen-Bonding Cocatalyst for Formate Decomposition. ACS Catalysis, 2020, 10, 10812-10825.	11.2	36
10	Effects of composition and morphology on the hydrogen storage properties of transition metal hydrides: Insights from PtPd nanoclusters. Nano Energy, 2019, 63, 103858.	16.0	15
11	Identification of stable adsorption sites and diffusion paths on nanocluster surfaces: an automated scanning algorithm. Npj Computational Materials, 2019, 5, .	8.7	6
12	Kinetic Isolation between Turnovers on Au ₁₈ Nanoclusters: Formic Acid Decomposition One Molecule at a Time. ACS Catalysis, 2019, 9, 9446-9457.	11.2	20
13	Atomic and Molecular Adsorption on Ag(111). Journal of Physical Chemistry C, 2019, 123, 7551-7566.	3.1	39
14	Density functional theory study of thermodynamic and kinetic isotope effects of H ₂ /D ₂ dissociative adsorption on transition metals. Catalysis Science and Technology, 2018, 8, 3321-3335.	4.1	26
15	Carboxylic acid formation by hydroxyl insertion into acyl moieties on late transition metals. Catalysis Science and Technology, 2017, 7, 5365-5375.	4.1	2
16	Palladium-Based Nanocatalyst for One-Pot Synthesis of Polysubstituted Quinolines. ChemCatChem, 2013, 5, 277-283.	3.7	55