

# Benjamin Wei Jie Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

670  
citations

840776

11  
h-index

940533

16  
g-index

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all docs

17  
docs citations

17  
times ranked

817  
citing authors

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