

Leanne D Chen

List of Publications by Year in descending order

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papers

2,033
citations

516710

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#	ARTICLE	IF	CITATIONS
1	Mechanism of ammonia oxidation to dinitrogen, nitrite, and nitrate on $\text{Ni}(\text{OH})_2$ from first-principles simulations. <i>Electrochemical Science Advances</i> , 2022, 2, 2100142.	2.8	21
2	Dynamic control of programmable catalysts offers new dimension for rate enhancement. <i>Chem Catalysis</i> , 2022, 2, 12-15.	6.1	0
3	Iridium-catalyzed hydroacylation reactions of C1-substituted oxabenzonorbornadienes with salicylaldehyde: an experimental and computational study. <i>Beilstein Journal of Organic Chemistry</i> , 2022, 18, 251-261.	2.2	2
4	A DFT Study on the Mechanism and Origin of Regioselectivity in the Rhodium/Diene-Catalyzed Ring-Opening Reactions of C1-Substituted Oxabenzonorbornadienes with Arylboronic Acids. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 1901-1908.	2.4	6
5	The Mechanism and Origin of Enantioselectivity in the Rhodium-Catalyzed Asymmetric Ring-Opening Reactions of Oxabicyclic Alkenes with Organoboronic Acids: A DFT Investigation. <i>Organometallics</i> , 2021, 40, 1588-1597.	2.3	3
6	Cations play an essential role in CO ₂ reduction. <i>Nature Catalysis</i> , 2021, 4, 641-642.	34.4	15
7	Inductive effects in cobalt-doped nickel hydroxide electronic structure facilitating urea electrooxidation. <i>Chemosphere</i> , 2021, 279, 130550.	8.2	30
8	Ruthenium-Catalyzed [2 + 2] versus Homo Diels-Alder [2 + 2 + 2] Cycloadditions of Norbornadiene and Disubstituted Alkynes: A DFT Study. <i>ACS Omega</i> , 2021, 6, 900-911.	3.5	1
9	Double layer charging driven carbon dioxide adsorption limits the rate of electrochemical carbon dioxide reduction on Gold. <i>Nature Communications</i> , 2020, 11, 33.	12.8	188
10	Implications of the fractional charge of hydroxide at the electrochemical interface. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6964-6969.	2.8	6
11	Embedded Mean-Field Theory for Solution-Phase Transition-Metal Polyolefin Catalysis. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4226-4237.	5.3	3
12	Facile Electron Transfer to CO ₂ during Adsorption at the Metal Solution Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29278-29283.	3.1	36
13	Understanding the apparent fractional charge of protons in the aqueous electrochemical double layer. <i>Nature Communications</i> , 2018, 9, 3202.	12.8	47
14	Scaling Relations for Adsorption Energies on Doped Molybdenum Phosphide Surfaces. <i>ACS Catalysis</i> , 2017, 7, 2528-2534.	11.2	39
15	Solvation Effects for Oxygen Evolution Reaction Catalysis on IrO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2017, 121, 11455-11463.	3.1	174
16	Promoter Effects of Alkali Metal Cations on the Electrochemical Reduction of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 11277-11287.	13.7	653
17	Theoretical Investigations of the Electrochemical Reduction of CO on Single Metal Atoms Embedded in Graphene. <i>ACS Central Science</i> , 2017, 3, 1286-1293.	11.3	54
18	Electric Field Effects in Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2016, 6, 7133-7139.	11.2	411

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19	Direct Water Decomposition on Transition Metal Surfaces: Structural Dependence and Catalytic Screening. <i>Catalysis Letters</i> , 2016, 146, 718-724.	2.6	18
20	Theoretical Limits to the Anode Potential in Aqueous Mg ⁺ Air Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19660-19667.	3.1	47
21	Al ⁺ Air Batteries: Fundamental Thermodynamic Limitations from First-Principles Theory. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 175-179.	4.6	60
22	Tuning the Photoisomerization of a N ⁺ Chelate Organoboron Compound with a Metal ⁺ Acetylide Unit. <i>Chemistry - A European Journal</i> , 2013, 19, 5314-5323.	3.3	35
23	A mechanistic study of the [La ₂ (OCH ₃) ₂] ⁴⁺ - and [(1,5,9-triazacyclodecane):Zn(OCH ₃) ₃] ⁺ -catalyzed methanolysis of carbonates: possible application for the recycling of bisphenol A polycarbonates. <i>Canadian Journal of Chemistry</i> , 2013, 91, 1139-1146.	1.1	5
24	Photo- and Thermal-Induced Multistructural Transformation of 2-Phenylazoly Chelate Boron Compounds. <i>Journal of the American Chemical Society</i> , 2013, 135, 3407-3410.	13.7	81
25	Stepwise Intramolecular Photoisomerization of NHC-Chelate Dimesitylboron Compounds with C ⁺ C Bond Formation and C ⁺ H Bond Insertion. <i>Journal of the American Chemical Society</i> , 2012, 134, 11026-11034.	13.7	95