Craig P Plaisance

List of Publications by Year
in descending order

19 papers	738 citations	687363 13 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	1289 citing authors

#	Article	IF	Citations
1	Lewisâ€“BrÃ¸nsted Acid Pairs in Ga/H-ZSM-5 To Catalyze Dehydrogenation of Light Alkanes. Journal of the American Chemical Society, 2018, 140, 4849-4859.	13.7	198
2	Structure Sensitivity of the Oxygen Evolution Reaction Catalyzed by Cobalt(II,III) Oxide. Journal of the American Chemical Society, 2015, 137, 14660-14672.	13.7	116
3	Ketones from acid condensation using supported CeO2 catalysts: Effect of additives. Applied Catalysis A: General, 2007, 320, 122-133.	4.3	75
4	Generalized Temporal Acceleration Scheme for Kinetic Monte Carlo Simulations of Surface Catalytic Processes by Scaling the Rates of Fast Reactions. Journal of Chemical Theory and Computation, 2017, 13, 1525-1538.	5.3	61
5	Assessment of mean-field microkinetic models for CO methanation on stepped metal surfaces using accelerated kinetic Monte Carlo. Journal of Chemical Physics, 2017, 147, 152705.	3.0	57
6	Monte Carlo and density functional theory analysis of the distribution of gold and palladium atoms on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Au</mml:mi><mml:mo>â^•</mml:mo><mml:mi mathvariant="normal">Pd</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>111</mml:mn><mml:mo>)</mml:mo></mml:mrow	3.2	52
7	Physical Review B, 2008, 77, . Perspective: On the active site model in computational catalyst screening. Journal of Chemical Physics, 2017, 146, 040901.	3.0	48
8	Addressing global uncertainty and sensitivity in first-principles based microkinetic models by an adaptive sparse grid approach. Journal of Chemical Physics, 2018, 148, 034102.	3.0	23
9	Constrained-Orbital Density Functional Theory. Computational Method and Applications to Surface Chemical Processes. Journal of Chemical Theory and Computation, 2017, 13, 3561-3574.	5.3	19
10	Quantum chemistry of the oxygen evolution reaction on cobalt(<scp>ii</scp>,<scp>iii</scp>) oxide â€“ implications for designing the optimal catalyst. Faraday Discussions, 2016, 188, 199-226.	3.2	18
11	Structure and Decomposition Pathways of Vinyl Acetate on Clean and Oxygen-Covered Pd(100). Journal of Physical Chemistry C, 2009, 113, 971-978.	3.1	16
12	Stabilizing the B-site oxidation state in ABO₃ perovskite nanoparticles. Nanoscale, 2019, 11, 14303-14311.	5.6	16
13	Zeolite and Metal Oxide Catalysts for the Production of Dimethyl Sulfide and Methanethiol. Catalysis Letters, 2009, 128, 449-458.	2.6	13
14	Structure of the Au/Pd(100) Alloy Surface. Journal of Physical Chemistry C, 2012, 116, 4692-4697.	3.1	8
15	Kinetics-Based Computational Catalyst Design Strategy for the Oxygen Evolution Reaction on Transition-Metal Oxide Surfaces. Journal of Physical Chemistry C, 2019, 123, 8287-8303.	3.1	6
16	Communicationâ€”Electrocatalytic Coupling of Methane at Platinum Oxide Electrodes in Superacids. Journal of the Electrochemical Society, 2020, 167, 155503.	2.9	5
17	Adsorption of Polarized Molecules for Interfacial Band Engineering of Doped TiO₂ Thin Films. Langmuir, 2020, 36, 5839-5846.	3.5	3
18	Catalyst design from theory to practice: general discussion. Faraday Discussions, 2016, 188, 279-307.	3.2	2

#	Article	IF	Citations
19	Modifying Metastable Sr_{1â€“x}BO_{3â^Î´} (B = Nb, Ta, and Mo) Perovskites for Electrode Materials. ACS Applied Materials & Interfaces, 2021, 13, 29788-29797.	8.0	2