Manuel Corral Valero

List of Publications by Year
in descending order

15 papers	452 citations	1040056 9 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	682 citing authors

#	Article	IF	Citations
1	Phosphate Adsorption on Î³-Alumina: A Surface Complex Model Based on Surface Characterization and Zeta Potential Measurements. Journal of Physical Chemistry C, 2021, 125, 10909-10918.	3.1	11
2	Structural Characterization of Phosphate Species Adsorbed on Î³-Alumina by Combining DNP Surface Enhanced NMR Spectroscopy and DFT Calculations. ACS Catalysis, 2021, 11, 11278-11292.	11.2	3
3	Interplay of Solidâ€“Liquid Interactions and Anisotropic Aggregation in Solution: The Case Study of Î³-AlOOH Crystallites. Journal of Physical Chemistry C, 2021, 125, 26049-26060.	3.1	4
4	Surface speciation of Co based Fischer-Tropsch catalyst under reaction conditions: Deactivation by coke or by oxidation?. Applied Catalysis A: General, 2020, 590, 117332.	4.3	9
5	Computational chemistry approaches for the preparation of supported catalysts: Progress and challenges. Journal of Catalysis, 2020, 391, 539-547.	6.2	12
6	MUSIC Speciation of Î³-Al₂O₃ at the Solid Liquid Interface: How DFT Calculations Can Help with Amorphous and Poorly Crystalline Materials. Langmuir, 2019, 35, 12986-12992.	3.5	12
7	Theoretical Insights into the Interaction of Oxygenated Organic Molecules and Cobalt(II) Precursor with Î³-Al₂O₃Surfaces. Journal of Physical Chemistry C, 2018, 122, 19560-19574.	3.1	8
8	An Atomistic Description of the Î³-Alumina/Water Interface Revealed by Ab Initio Molecular Dynamics. Journal of Physical Chemistry C, 2017, 121, 10351-10363.	3.1	33
9	Competitive Deposition of C and O Species on Cobalt Surface in Fischerâ€“Tropsch Synthesis Conditions: A Plausible Origin of Deactivation. Journal of Physical Chemistry C, 2015, 119, 23515-23526.	3.1	7
10	Stability of Carbon on Cobalt Surfaces in Fischerâ€“Tropsch Reaction Conditions: A DFT Study. Journal of Physical Chemistry C, 2014, 118, 22479-22490.	3.1	30
11	Cobalt Catalyzed Fischerâ€“Tropsch Synthesis: Perspectives Opened by First Principles Calculations. Catalysis Letters, 2013, 143, 1-17.	2.6	53
12	Preparation of nanosized bimetallic Ni-Sn and Ni-Au/SiO2 catalysts by SOMC/M. Correlation between structure and catalytic properties in styrene hydrogenation. Studies in Surface Science and Catalysis, 2010, 175, 617-620.	1.5	3
13	Nucleation ofPdn(n=1â€“5)clusters and wetting of Pd particles onÎ³â^'Al2O3surfaces: A density functional theory study. Physical Review B, 2007, 75, .	3.2	84
14	Interplay between molecular adsorption and metalâ€“support interaction for small supported metal clusters: CO and C2H4 adsorption on Pd4/Î³Pd4/Î³-Al2O3. Journal of Catalysis, 2007, 247, 339-355.	6.2	80
15	Influence of the Hydroxylation of Î³-Al2O3Surfaces on the Stability and Diffusion of Single Pd Atoms:Â A DFT Study. Journal of Physical Chemistry B, 2006, 110, 1759-1767.	2.6	103