

Manuel Corral Valero

List of Publications by Year in descending order

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15
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1040056

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docs citations

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682
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the Hydroxylation of $\hat{\text{I}}^3\text{-Al}_2\text{O}_3$ Surfaces on the Stability and Diffusion of Single Pd Atoms: A DFT Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1759-1767.	2.6	103
2	Nucleation of Pd _n (n=1-5) clusters and wetting of Pd particles on $\hat{\text{I}}^3\text{-Al}_2\text{O}_3$ surfaces: A density functional theory study. <i>Physical Review B</i> , 2007, 75, .	3.2	84
3	Interplay between molecular adsorption and metal-support interaction for small supported metal clusters: CO and C ₂ H ₄ adsorption on Pd ₄ / $\hat{\text{I}}^3\text{-Al}_2\text{O}_3$. <i>Journal of Catalysis</i> , 2007, 247, 339-355.	6.2	80
4	Cobalt Catalyzed Fischer-Tropsch Synthesis: Perspectives Opened by First Principles Calculations. <i>Catalysis Letters</i> , 2013, 143, 1-17.	2.6	53
5	An Atomistic Description of the $\hat{\text{I}}^3\text{-Alumina/Water}$ Interface Revealed by Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10351-10363.	3.1	33
6	Stability of Carbon on Cobalt Surfaces in Fischer-Tropsch Reaction Conditions: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22479-22490.	3.1	30
7	MUSIC Speciation of $\hat{\text{I}}^3\text{-Al}_{2</sub>}\text{O}_{3</sub>}$ at the Solid Liquid Interface: How DFT Calculations Can Help with Amorphous and Poorly Crystalline Materials. <i>Langmuir</i> , 2019, 35, 12986-12992.	3.5	12
8	Computational chemistry approaches for the preparation of supported catalysts: Progress and challenges. <i>Journal of Catalysis</i> , 2020, 391, 539-547.	6.2	12
9	Phosphate Adsorption on $\hat{\text{I}}^3\text{-Alumina}$: A Surface Complex Model Based on Surface Characterization and Zeta Potential Measurements. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10909-10918.	3.1	11
10	Surface speciation of Co based Fischer-Tropsch catalyst under reaction conditions: Deactivation by coke or by oxidation?. <i>Applied Catalysis A: General</i> , 2020, 590, 117332.	4.3	9
11	Theoretical Insights into the Interaction of Oxygenated Organic Molecules and Cobalt(II) Precursor with $\hat{\text{I}}^3\text{-Al}_{2</sub>}\text{O}_{3</sub>}$ Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19560-19574.	3.1	8
12	Competitive Deposition of C and O Species on Cobalt Surface in Fischer-Tropsch Synthesis Conditions: A Plausible Origin of Deactivation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23515-23526.	3.1	7
13	Interplay of Solid-Liquid Interactions and Anisotropic Aggregation in Solution: The Case Study of $\hat{\text{I}}^3\text{-AlOOH}$ Crystallites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26049-26060.	3.1	4
14	Preparation of nanosized bimetallic Ni-Sn and Ni-Au/SiO ₂ catalysts by SOMC/M. Correlation between structure and catalytic properties in styrene hydrogenation. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 617-620.	1.5	3
15	Structural Characterization of Phosphate Species Adsorbed on $\hat{\text{I}}^3\text{-Alumina}$ by Combining DNP Surface Enhanced NMR Spectroscopy and DFT Calculations. <i>ACS Catalysis</i> , 2021, 11, 11278-11292.	11.2	3