

Mariana I Rojas

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31
papers

513
citations

14
h-index

22
g-index

32
ext. papers

552
ext. citations

4.4
avg, IF

3.71
L-index

#	Paper	IF	Citations
31	Density functional theory study of a graphene sheet modified with titanium in contact with different adsorbates. <i>Physical Review B</i> , 2007 , 76,	3.3	85
30	Interferents for hydrogen storage on a graphene sheet decorated with nickel: A DFT study. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3537-3546	6.7	53
29	The origin of the catalysis of hydrogen peroxide reduction by functionalized graphene surfaces: A density functional theory study. <i>Electrochimica Acta</i> , 2010 , 56, 523-530	6.7	50
28	Is hydrogen storage possible in metal-doped graphite 2D systems in conditions found on Earth?. <i>Physical Review Letters</i> , 2011 , 107, 158701	7.4	49
27	The oxygen and chlorine evolution reactions at titanium oxide electrodes modified with platinum. <i>Electrochimica Acta</i> , 1998 , 43, 1785-1794	6.7	36
26	Electric and structural properties of polymeric graphite carbon nitride (g-C ₃ N ₄): A Density Functional Theory study. <i>Computational and Theoretical Chemistry</i> , 2016 , 1098, 41-49	2	25
25	Simulation Study of Pd Submonolayer Films on Au(hkl) and Pt(hkl) and Their Relationship to Underpotential Deposition. <i>Langmuir</i> , 2000 , 16, 9539-9546	4	22
24	Energetic and entropic contributions to the underpotential/overpotential deposition shifts on single crystal surfaces from lattice dynamics. <i>Electrochimica Acta</i> , 2006 , 51, 3526-3536	6.7	18
23	First-principles studies of lithium storage in reduced graphite oxide. <i>Electrochimica Acta</i> , 2014 , 140, 232-237	6.7	17
22	Kinetic Monte Carlo simulation of Pt discontinuous thin film formation adsorbed on Au. <i>Surface Science</i> , 2005 , 581, L109-L114	1.8	15
21	The origin of high electrocatalytic activity of hydrogen peroxide reduction reaction by a g-CN/HOPG sensor. <i>Nanoscale</i> , 2017 , 9, 11170-11179	7.7	14
20	Computer simulation of the effective double layer occurring on a catalyst surface under electro-chemical promotion conditions. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 1065-1073	2.6	14
19	Off lattice Monte Carlo simulation study for different metal adlayers onto (111) substrates. <i>Surface Science</i> , 2004 , 569, 76-88	1.8	14
18	First-principles studies concerning optimization of hydrogen storage in nanoporous reduced graphite oxide. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4396-4403	6.7	10
17	2D-drop model applied to the calculation of step formation energies on a (111) substrate. <i>Surface Science</i> , 2002 , 499, L135-L140	1.8	9
16	Influence of coadsorbed H in CO dissociation and CH _n formation on Fe(1 0 0): A DFT study. <i>Applied Surface Science</i> , 2015 , 346, 438-442	6.7	8
15	A jellium/point dipoles model for water adsorption on Ag(110). <i>Surface Science</i> , 1990 , 227, L121-1124	1.8	8

14	Curvature effect in the longitudinal unzipping carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1189-1200	2.6	7
13	Theoretical Study about the Adsorption of Lead on (111), (100), (110) Monocrystalline Surfaces of Gold. <i>Zeitschrift Fur Physikalische Chemie</i> , 1994 , 185, 33-50	3.1	6
12	Monte Carlo simulation of properties of monolayers and metal islands adsorbed on metallic (111) surfaces. <i>Langmuir</i> , 2004 , 20, 4279-88	4	5
11	A new model for the prediction of oxygen interference in hydrogen storage systems. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 5899-5905	6.7	4
10	Computer simulation of reversible electrochemical catalyst promoter dosing. <i>Electrochimica Acta</i> , 2010 , 55, 8673-8679	6.7	4
9	An extended Hückel/point dipole model for the calculation of dipole potentials for sp metals. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 303, 55-63		4
8	Kinetics and Mechanism of the Hydrogen Peroxide Reduction Reaction on a Graphite Carbon Nitride Sensor. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 336-346	3.8	4
7	Experimental and vdW-DFT Study of the Structure, Properties, and Stability of Isonicotinic Acid Self-Assembled Monolayers on Gold. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4364-4372	3.8	3
6	Differentiated interactions in phosphate solutions: Comparing Ag(111) and Ag(100) surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 487-496	4.1	2
5	Off lattice Monte-Carlo simulations of low-dimensional surface defects and metal deposits on Pt(111). <i>Electrochemistry Communications</i> , 2005 , 7, 472-476	5.1	2
4	Morphological and electrochemical characterizations of a carbon nitride/highly oriented pyrolytic graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115621	4.1	1
3	A theoretical study on the stability of different submonolayers or a monolayer of lead adsorbed on Au(100). <i>Journal of Electroanalytical Chemistry</i> , 1996 , 405, 33-38	4.1	0
2	Changes in electronic structure of graphene by adsorption of low melamine coverages. <i>Surface Science</i> , 2022 , 723, 122120	1.8	0
1	Specific adsorption of phosphate species on Ag (111) and Ag (100) electrodes and their effect at low overpotentials of the hydrogen evolution reaction. <i>Applied Surface Science Advances</i> , 2021 , 3, 100041 ⁶		