

Jose Luis Cagide Fajin

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46
papers

1,216
citations

21
h-index

34
g-index

49
ext. papers

1,312
ext. citations

4.5
avg, IF

4.53
L-index

#	Paper	IF	Citations
46	Influence of step sites in the molecular mechanism of the water gas shift reaction catalyzed by copper. <i>Journal of Catalysis</i> , 2009 , 268, 131-141	7.3	88
45	Density functional theory study of the water dissociation on platinum surfaces: general trends. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 5832-40	2.8	82
44	Effect of the exchange-correlation potential and of surface relaxation on the description of the H(2)O dissociation on Cu(111). <i>Journal of Chemical Physics</i> , 2009 , 130, 224702	3.9	79
43	Descriptors controlling the catalytic activity of metallic surfaces toward water splitting. <i>Journal of Catalysis</i> , 2010 , 276, 92-100	7.3	74
42	DFT Study of the CO Oxidation on the Au(321) Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17291-17302	3.8	61
41	On the theoretical understanding of the unexpected O ₂ activation by nanoporous gold. <i>Chemical Communications</i> , 2011 , 47, 8403-5	5.8	60
40	Adsorption of Atomic and Molecular Oxygen on the Au(321) Surface: DFT Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17311-17321	3.8	59
39	Density functional theory model study of size and structure effects on water dissociation by platinum nanoparticles. <i>Journal of Chemical Physics</i> , 2012 , 137, 034701	3.9	49
38	DFT study of the adsorption of D-(L)-cysteine on flat and chiral stepped gold surfaces. <i>Langmuir</i> , 2013 , 29, 8856-64	4	44
37	Desirability-based methods of multiobjective optimization and ranking for global QSAR studies. Filtering safe and potent drug candidates from combinatorial libraries. <i>ACS Combinatorial Science</i> , 2008 , 10, 897-913		40
36	Generalized Brønsted-Evans-Polanyi relationships and descriptors for O-H bond cleavage of organic molecules on transition metal surfaces. <i>Journal of Catalysis</i> , 2014 , 313, 24-33	7.3	39
35	The Role of Preadsorbed Atomic Hydrogen in the NO Dissociation on a Zigzag Stepped Gold Surface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8864-8877	3.8	38
34	Mechanistic Study of Carbon Monoxide Methanation over Pure and Rhodium- or Ruthenium-Doped Nickel Catalysts. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16537-16551	3.8	37
33	Ruthenium-Platinum Catalysts and Direct Methanol Fuel Cells (DMFC): A Review of Theoretical and Experimental Breakthroughs. <i>Catalysts</i> , 2017 , 7, 47	4	36
32	Unraveling the mechanism of the NO reduction by CO on gold based catalysts. <i>Journal of Catalysis</i> , 2012 , 289, 11-20	7.3	29
31	Ionic and radical adsorption on the Au(hkl) surfaces: A DFT study. <i>Surface Science</i> , 2012 , 606, 69-77	1.8	29
30	DFT study on the reaction of NO oxidation on a stepped gold surface. <i>Applied Catalysis A: General</i> , 2010 , 379, 111-120	5.1	27

29	Water Dissociation on Bimetallic Surfaces: General Trends. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10120-10128	3.8	26
28	Cluster and periodic DFT calculations of adsorption of hydroxyl on the Au(h k l) surfaces. <i>Computational and Theoretical Chemistry</i> , 2010 , 946, 43-50		24
27	DFT study on the reaction of O ₂ dissociation catalyzed by gold surfaces doped with transition metal atoms. <i>Applied Catalysis A: General</i> , 2013 , 458, 90-102	5.1	23
26	Fluorobenzene-argon ground-state intermolecular potential energy surface. <i>Journal of Chemical Physics</i> , 2004 , 120, 8582-6	3.9	23
25	DFT study of the Au(321) surface reconstruction by consecutive deposition of oxygen atoms. <i>Surface Science</i> , 2008 , 602, 424-435	1.8	21
24	On the Need for Spin Polarization in Heterogeneously Catalyzed Reactions on Nonmagnetic Metallic Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1737-43	6.4	19
23	Fischer-Tropsch Synthesis on Multicomponent Catalysts: What Can We Learn from Computer Simulations?. <i>Catalysts</i> , 2015 , 5, 3-17	4	18
22	Competitive Paths for Methanol Decomposition on Ruthenium: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27382-27391	3.8	17
21	Effect of van der Waals interactions in the DFT description of self-assembled monolayers of thiols on gold. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1.9	15
20	Effect of the Exchange-Correlation Potential on the Transferability of Brüsted-Evans-Polanyi Relationships in Heterogeneous Catalysis. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2121-6	6.4	15
19	DFT study on the NO oxidation on a flat gold surface model. <i>Chemical Physics Letters</i> , 2011 , 503, 129-133	3.5	14
18	A computational study of the interaction of graphene structures with biomolecular units. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15312-21	3.6	14
17	Accurate intermolecular ground state potential of the Ne-HCl van der Waals complex. <i>Journal of Chemical Physics</i> , 2004 , 121, 4599-604	3.9	13
16	Water dissociation on multimetallic catalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 199-207	21.8	11
15	Water adsorption and dissociation on the Au(321) stepped surface. <i>Computational and Theoretical Chemistry</i> , 2010 , 946, 51-56		11
14	p-Difluorobenzene-argon ground state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 11602-8	2.8	11
13	Methanol dissociation on bimetallic surfaces: validity of the general Brüsted-Evans-Polanyi relationship for O-H bond cleavage. <i>RSC Advances</i> , 2016 , 6, 18695-18702	3.7	10
12	Rotational structure of small 4He clusters seeded with HF, HCl, and HBr molecules. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12275-88	2.8	10

11	A DFT study of the NO dissociation on gold surfaces doped with transition metals. <i>Journal of Chemical Physics</i> , 2013 , 138, 074701	3.9	9
10	Accurate computations of the rovibrational spectrum of the HeHF van der Waals complex. <i>Molecular Physics</i> , 2006 , 104, 1413-1420	1.7	9
9	The fluorobenzene-argon S(1) excited-state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7876-81	2.8	8
8	The p-difluorobenzene-argon S1 excited state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13259-63	2.8	6
7	Accurate intermolecular ground state potential of the HeHCl van der Waals complex. <i>Chemical Physics Letters</i> , 2006 , 419, 55-58	2.5	6
6	Catalytic Reactions on Model Gold Surfaces: Effect of Surface Steps and of Surface Doping. <i>Catalysts</i> , 2011 , 1, 40-51	4	4
5	Implicit solvent effects in the determination of Brüsted-Evans-Polanyi relationships for heterogeneously catalyzed reactions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17687-17695	3.6	3
4	Insights into the Mechanism of Methanol Steam Reforming for Hydrogen Production over NiCu-Based Catalysts. <i>ACS Catalysis</i> , 2022 , 12, 512-526	13.1	2
3	Prediction of metallic nanotube reactivity for HO activation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19188-19195	3.6	1
2	How reliable is the ReaxFF potential for describing the structure of alkanethiols on gold? A molecular dynamics study. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2014 , 05, 1441011	0.8	1
1	First-principles-based kinetic Monte Carlo simulations of CO oxidation on catalytic Au(110) and Ag(110) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14037-14050	3.6	1