

# Jose Luis Cagide Fajin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Insights into the Mechanism of Methanol Steam Reforming for Hydrogen Production over NiCu-Based Catalysts. <i>ACS Catalysis</i> , <b>2022</b> , 12, 512-526	13.1	2
45	First-principles-based kinetic Monte Carlo simulations of CO oxidation on catalytic Au(110) and Ag(110) surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 14037-14050	3.6	1
44	Implicit solvent effects in the determination of Brønsted-Evans-Polanyi relationships for heterogeneously catalyzed reactions. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17687-17695	3.6	3
43	Water dissociation on multimetallic catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 218, 199-207	21.8	11
42	Prediction of metallic nanotube reactivity for HO activation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 19188-19195	3.6	1
41	Ruthenium/Platinum Catalysts and Direct Methanol Fuel Cells (DMFC): A Review of Theoretical and Experimental Breakthroughs. <i>Catalysts</i> , <b>2017</b> , 7, 47	4	36
40	Methanol dissociation on bimetallic surfaces: validity of the general Brønsted-Evans-Polanyi relationship for O-H bond cleavage. <i>RSC Advances</i> , <b>2016</b> , 6, 18695-18702	3.7	10
39	A computational study of the interaction of graphene structures with biomolecular units. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 15312-21	3.6	14
38	Effect of the Exchange-Correlation Potential on the Transferability of Brønsted-Evans-Polanyi Relationships in Heterogeneous Catalysis. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 2121-6 <sup>6.4</sup>	6.4	15
37	Mechanistic Study of Carbon Monoxide Methanation over Pure and Rhodium- or Ruthenium-Doped Nickel Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16537-16551	3.8	37
36	Competitive Paths for Methanol Decomposition on Ruthenium: A DFT Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27382-27391	3.8	17
35	Effect of van der Waals interactions in the DFT description of self-assembled monolayers of thiols on gold. <i>Theoretical Chemistry Accounts</i> , <b>2015</b> , 134, 1	1.9	15
34	Fischer-Tropsch Synthesis on Multicomponent Catalysts: What Can We Learn from Computer Simulations?. <i>Catalysts</i> , <b>2015</b> , 5, 3-17	4	18
33	Generalized Brønsted-Evans-Polanyi relationships and descriptors for O-H bond cleavage of organic molecules on transition metal surfaces. <i>Journal of Catalysis</i> , <b>2014</b> , 313, 24-33	7.3	39
32	Density functional theory study of the water dissociation on platinum surfaces: general trends. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 5832-40	2.8	82
31	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> , <b>2014</b> , 05, 1441011	0.8	1
30	DFT study of the adsorption of D-(L)-cysteine on flat and chiral stepped gold surfaces. <i>Langmuir</i> , <b>2013</b> , 29, 8856-64	4	44

29	DFT study on the reaction of O <sub>2</sub> dissociation catalyzed by gold surfaces doped with transition metal atoms. <i>Applied Catalysis A: General</i> , <b>2013</b> , 458, 90-102	5.1	23
28	A DFT study of the NO dissociation on gold surfaces doped with transition metals. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 074701	3.9	9
27	Unraveling the mechanism of the NO reduction by CO on gold based catalysts. <i>Journal of Catalysis</i> , <b>2012</b> , 289, 11-20	7.3	29
26	Density functional theory model study of size and structure effects on water dissociation by platinum nanoparticles. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 034701	3.9	49
25	On the Need for Spin Polarization in Heterogeneously Catalyzed Reactions on Nonmagnetic Metallic Surfaces. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 1737-43	6.4	19
24	Ionic and radical adsorption on the Au(hkl) surfaces: A DFT study. <i>Surface Science</i> , <b>2012</b> , 606, 69-77	1.8	29
23	Water Dissociation on Bimetallic Surfaces: General Trends. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10120-10128	3.8	26
22	On the theoretical understanding of the unexpected O <sub>2</sub> activation by nanoporous gold. <i>Chemical Communications</i> , <b>2011</b> , 47, 8403-5	5.8	60
21	Catalytic Reactions on Model Gold Surfaces: Effect of Surface Steps and of Surface Doping. <i>Catalysts</i> , <b>2011</b> , 1, 40-51	4	4
20	DFT study on the NO oxidation on a flat gold surface model. <i>Chemical Physics Letters</i> , <b>2011</b> , 503, 129-133	3.5	14
19	Descriptors controlling the catalytic activity of metallic surfaces toward water splitting. <i>Journal of Catalysis</i> , <b>2010</b> , 276, 92-100	7.3	74
18	Water adsorption and dissociation on the Au(321) stepped surface. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 946, 51-56		11
17	Cluster and periodic DFT calculations of adsorption of hydroxyl on the Au(h k l) surfaces. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 946, 43-50		24
16	DFT study on the reaction of NO oxidation on a stepped gold surface. <i>Applied Catalysis A: General</i> , <b>2010</b> , 379, 111-120	5.1	27
15	Effect of the exchange-correlation potential and of surface relaxation on the description of the H <sub>2</sub> O dissociation on Cu(111). <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 224702	3.9	79
14	Influence of step sites in the molecular mechanism of the water gas shift reaction catalyzed by copper. <i>Journal of Catalysis</i> , <b>2009</b> , 268, 131-141	7.3	88
13	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> , <b>2009</b> , 113, 8864-8877	3.8	38
12	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> , <b>2008</b> , 10, 897-913		40

11	DFT Study of the CO Oxidation on the Au(321) Surface. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17291-17306	1.8	21
10	DFT study of the Au(321) surface reconstruction by consecutive deposition of oxygen atoms. <i>Surface Science</i> , <b>2008</b> , 602, 424-435	1.8	21
9	Rotational structure of small 4He clusters seeded with HF, HCl, and HBr molecules. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 12275-88	2.8	10
8	Adsorption of Atomic and Molecular Oxygen on the Au(321) Surface: DFT Study. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17311-17321	3.8	59
7	The fluorobenzene-argon S(1) excited-state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 7876-81	2.8	8
6	Accurate computations of the rovibrational spectrum of the HeHF van der Waals complex. <i>Molecular Physics</i> , <b>2006</b> , 104, 1413-1420	1.7	9
5	The p-difluorobenzene-argon S1 excited state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 13259-63	2.8	6
4	Accurate intermolecular ground state potential of the HeHCl van der Waals complex. <i>Chemical Physics Letters</i> , <b>2006</b> , 419, 55-58	2.5	6
3	p-Difluorobenzene-argon ground state intermolecular potential energy surface. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 11602-8	2.8	11
2	Accurate intermolecular ground state potential of the Ne-HCl van der Waals complex. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 4599-604	3.9	13
1	Fluorobenzene-argon ground-state intermolecular potential energy surface. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 8582-6	3.9	23