

Beatriz Irigoyen

List of Publications by Citations

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39
papers

607
citations

15
h-index

22
g-index

42
ext. papers

680
ext. citations

5.4
avg, IF

3.96
L-index

#	Paper	IF	Citations
39	Mn-Doped CeO ₂ : DFT+U Study of a Catalyst for Oxidation Reactions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18063-18073	3.8	53
38	Theoretical and experimental study of methane steam reforming reactions over nickel catalyst. <i>Applied Surface Science</i> , 2007 , 253, 4427-4437	6.7	47
37	Preparation and characterization of Ce/Zr mixed oxides and their use as catalysts for the direct oxidation of dry CH ₄ . <i>Catalysis Today</i> , 2005 , 107-108, 53-59	5.3	38
36	Ce-Pr mixed oxides as active supports for Water-gas Shift reaction: Experimental and density functional theory characterization. <i>Applied Catalysis A: General</i> , 2014 , 485, 123-132	5.1	33
35	DFT study of H ₂ adsorption on Pd-decorated single walled carbon nanotubes with C-vacancies. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10156-10164	6.7	30
34	A First-Principles Modeling of Ni Interactions on CeO ₂ /ZrO ₂ Mixed Oxide Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7456-7465	3.8	26
33	Experimental and theoretical study about sulfur deactivation of Ni/ CeO ₂ and Rh/CeO ₂ catalysts. <i>Materials Chemistry and Physics</i> , 2016 , 172, 69-76	4.4	23
32	The location of a hydrogen atom and hydrogen molecules in BCC Fe: an ASFD-MO approach. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1995 , 3, 319-329	2	23
31	Bonding in PdH ₂ and Pd ₂ H ₂ systems adsorbed on carbon nanotubes: Implications for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8780-8790	6.7	21
30	Oxidation of toluene to benzaldehyde over VSb _{0.8} Ti _{0.2} O ₄ : Effect of the operating conditions. <i>Catalysis Today</i> , 2001 , 64, 179-187	5.3	21
29	Vanadium antimonate as a partial oxidation catalyst. <i>Applied Catalysis A: General</i> , 2003 , 250, 279-285	5.1	17
28	Methane oxidation reactions on MoO ₃ (100): A theoretical study. <i>Journal of Molecular Catalysis A</i> , 1998 , 129, 297-310		16
27	The adsorption of toluene on V ₅ B ₅ oxides. Theoretical aspects. <i>Surface Science</i> , 2003 , 523, 252-266	1.8	16
26	The location of atomic hydrogen in an edge-dislocated BCC Fe. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 2179-2183	3	16
25	Redox behavior of a low-doped Pr-CeO ₂ (111) surface. A DFT+U study. <i>Applied Surface Science</i> , 2017 , 401, 206-217	6.7	15
24	Segregation of H, C and B to $\frac{1}{2} [5 (0 1 3)] \frac{1}{2} \text{Fe}$ grain boundary: A theoretical study. <i>Applied Surface Science</i> , 2006 , 253, 1939-1945	6.7	15
23	Hydrogen on the Fe (1 12) surface and hydrogen pairs near bcc mixed (a/2)[11 1] dislocation: electronic structure. <i>Surface Science</i> , 2000 , 466, 97-110	1.8	15

22	Electronic structure and bonding of hydrogen in a screw dislocated bcc Fe. <i>Applied Surface Science</i> , 2001 , 172, 8-17	6.7	14
21	A DFT study of phenol adsorption on a low doping Mn δ Fe composite oxide model. <i>Applied Surface Science</i> , 2015 , 359, 14-20	6.7	13
20	Density functional theory study of water interactions on Mn-doped CeO ₂ (1 1 1) surface. <i>Applied Surface Science</i> , 2014 , 313, 784-793	6.7	13
19	Adsorption Reactions of Toluene on the (110) Vanadium Antimonate Oxide Surface. <i>Journal of Catalysis</i> , 2001 , 201, 169-182	7.3	13
18	Oxygen vacancy formation on the Ni/Ce _{0.75} Zr _{0.25} O ₂ (111) surface. A DFT+U study. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14937-14944	6.7	12
17	The interaction of hydrogen with an Fe vacancy: a molecular orbital simulation. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 1306-1309	3	12
16	Reaction Pathway for Coke-Free Methane Steam Reforming on a Ni/CeO Catalyst: Active Sites and the Role of Metal-Support Interactions. <i>ACS Catalysis</i> , 2021 , 11, 8327-8337	13.1	12
15	Unraveling the Origin of Ceria Activity in Water-Gas Shift by First-Principles Microkinetic Modeling. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7823-7834	3.8	11
14	A molecular orbital study of H interaction with an edge dislocation in Fe bcc. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1997 , 5, 357-363	2	11
13	Adsorption of ammonia on vanadium-antimony mixed oxides. <i>Applied Surface Science</i> , 2012 , 258, 3617-3623	6.7	9
12	Nature of the Active Sites on Ni/CeO Catalysts for Methane Conversions. <i>ACS Catalysis</i> , 2021 , 11, 10604-10613	13.9	9
11	Promoted methane activation on doped ceria via occupation of Pr(4f) states. <i>Applied Surface Science</i> , 2018 , 458, 397-404	6.7	7
10	The influence of Mg on the C adsorption on Ni(1 0 0): A DFT study. <i>Journal of Molecular Catalysis A</i> , 2010 , 315, 171-177		7
9	Effect of Fe doped over V δ Sb oxide catalyst in toluene selective oxidation. <i>Catalysis Today</i> , 2008 , 133-135, 775-779	5.3	7
8	CH ₃ and CH ₂ Oxidation Reactions on MoO ₃ (100): Analysis of the Electronic Structure. <i>Journal of Catalysis</i> , 2000 , 190, 14-21	7.3	6
7	The electronic structure of vanadium antimonate. <i>Catalysis Today</i> , 2005 , 107-108, 40-45	5.3	5
6	Theoretical study of the influence of cation vacancies on the catalytic properties of vanadium antimonate. <i>Applied Surface Science</i> , 2008 , 254, 5837-5843	6.7	4
5	Catalytic behaviour of V-Sb-Ti mixed oxides in the vapour-phase reaction of ethylbenzene with air. <i>Catalysis Today</i> , 2005 , 107-108, 444-450	5.3	4

4	DFT insights into structural effects of Ni-Cu/CeO catalysts for CO selective reaction towards water-gas shift. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3826-3836	3.6	4
3	The Effect of Metal Cation Vacancies on Vanadium Antimonate Surface Properties. A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20548-20556	3.8	3
2	Partial oxidation of toluene to benzaldehyde over vanadium antimonate catalysts doped with titanium. The influence of the antimony content over the deactivation process.. <i>Studies in Surface Science and Catalysis</i> , 2001 , 383-389	1.8	3
1	Propylene Adsorption On a Nonstoichiometric VSbO ₄ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4967-4975	3.8	2