

Man Isabela Costinela

List of Publications by Citations

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22
papers

3,529
citations

11
h-index

23
g-index

23
ext. papers

4,128
ext. citations

5.7
avg. IF

4.73
L-index

#	Paper	IF	Citations
22	Universality in Oxygen Evolution Electrocatalysis on Oxide Surfaces. <i>ChemCatChem</i> , 2011 , 3, 1159-1165	5.2	2321
21	Identifying active surface phases for metal oxide electrocatalysts: a study of manganese oxide bi-functional catalysts for oxygen reduction and water oxidation catalysis. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14010-22	3.6	270
20	Electrochemical chlorine evolution at rutile oxide (110) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 283-90	3.6	244
19	Number of outer electrons as descriptor for adsorption processes on transition metals and their oxides. <i>Chemical Science</i> , 2013 , 4, 1245	9.4	211
18	Solar hydrogen production with semiconductor metal oxides: new directions in experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 49-70	3.6	171
17	Tailoring the Activity for Oxygen Evolution Electrocatalysis on Rutile TiO ₂ (110) by Transition-Metal Substitution. <i>ChemCatChem</i> , 2011 , 3, 1607-1611	5.2	146
16	Oxygen evolution reaction: a perspective on a decade of atomic scale simulations. <i>Chemical Science</i> , 2020 , 11, 2943-2950	9.4	34
15	The Sabatier Principle Illustrated by Catalytic H ₂ O ₂ Decomposition on Metal Surfaces. <i>Journal of Chemical Education</i> , 2011 , 88, 1711-1715	2.4	33
14	Role of the Band Gap for the Interaction Energy of Coadsorbed Fragments. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18608-18614	3.8	12
13	Volcano Relations for Oxidation of Hydrogen Halides over Rutile Oxide Surfaces. <i>ChemCatChem</i> , 2012 , 4, 1856-1861	5.2	11
12	Effect of Ca and Sr in MgO(100) on the activation of methanol and methyl acetate. <i>Catalysis Today</i> , 2018 , 306, 207-214	5.3	9
11	Theoretical aspects of methyl acetate and methanol activation on MgO(100) and (501) catalyst surfaces with application in FAME production. <i>Applied Surface Science</i> , 2017 , 392, 920-928	6.7	9
10	Halogen bonding in 5-iodo-1-arylpyrazoles investigated in the solid state and predicted by solution ¹³ C-NMR spectroscopy. <i>CrystEngComm</i> , 2019 , 21, 7085-7093	3.3	9
9	First principle studies of oxygen reduction reaction on N doped graphene: Impact of N concentration, position and co-adsorbate effect. <i>Applied Surface Science</i> , 2020 , 510, 145470	6.7	6
8	5-Iodo-1-Arylpyrazoles as Potential Benchmarks for Investigating the Tuning of the Halogen Bonding. <i>Crystals</i> , 2020 , 10, 1149	2.3	6
7	Effects of the cooperative interaction on the diffusion of hydrogen on MgO(100). <i>Journal of Chemical Physics</i> , 2018 , 149, 034704	3.9	5
6	How Do the Coadsorbrates Affect the Oxygen Reduction Reaction Activity of Undoped and N-Doped Graphene Nanoribbon Edges? A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23177-23189	3.8	4

5	Engineering hydrogenation active sites on graphene oxide and N-doped graphene by plasma treatment. <i>Applied Catalysis B: Environmental</i> , 2021 , 287, 119962	21.8	4
4	Vibrational and electronic circular dichroism studies on the axially chiral pyridine-N-oxide: trans-2,6-di-ortho-tolyl-3,4,5-trimethylpyridine-N-oxide. <i>Tetrahedron: Asymmetry</i> , 2015 , 26, 1043-1049		3
3	Vibrational circular dichroism of 2,6-di-sec-butyl-4-methylpyridine and 2,6-di-sec-butyl-4-methylpyridine-N-oxide: theoretical evidence on the existence of multiple π H, π H ₂ , and π H ₃ O intramolecular hydrogen bonds on the nitroxide oxygen. <i>Tetrahedron: Asymmetry</i> , 2014 , 25, 725-735		3
2	Nanometer-thick films of antimony oxide nanoparticles grafted on defective graphenes as heterogeneous base catalysts for coupling reactions. <i>Journal of Catalysis</i> , 2020 , 390, 135-149	7.3	3
1	A theoretical study of the influence of gold nanoplatelets sites in CC coupling reaction. <i>Molecular Catalysis</i> , 2020 , 485, 110845	3.3	