

# M Carmen ArÃ©valo

## List of Publications by Year in descending order

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51  
papers

1,159  
citations

279798

23  
h-index

414414

32  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic investigations of C3 primary alcohols on platinum electrodes in acid solutions.. Journal of Electroanalytical Chemistry, 1993, 350, 97-116.	3.8	57
2	Comparative Study of Ethanol and Acetaldehyde Reactivities on Rhodium Electrodes in Acidic Media. Langmuir, 2002, 18, 763-772.	3.5	55
3	New insights on the electrochemical oxidation of ethanol on carbon-supported Pt electrode by a novel electrochemical mass spectrometry configuration. Electrochemistry Communications, 2016, 63, 48-51.	4.7	52
4	Catalytic efficiency of natural and synthetic compounds used as laccase-mediators in oxidising veratryl alcohol and a kraft lignin, estimated by electrochemical analysis. Electrochimica Acta, 2009, 54, 2621-2629.	5.2	51
5	Electrocatalytic oxidation of nitrite to nitrate mediated by Fe(III) poly-3-aminophenyl porphyrin grown on five different electrode surfaces. Journal of Molecular Catalysis A, 2007, 268, 148-154.	4.8	47
6	S- and N-Doped Graphene Nanomaterials for the Oxygen Reduction Reaction. Catalysts, 2017, 7, 278.	3.5	45
7	Competition between a concerted and a sequential electron transfer-bond breaking path in triphenylmethyl phenyl sulphide reduction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 251, 369-382.	0.1	41
8	Reactivity of acetaldehyde at platinum and rhodium in acidic media. A DEMS study. Electrochimica Acta, 2002, 47, 1441-1449.	5.2	40
9	The influence of a thin electrolyte layer on the corrosion process of zinc in chloride-containing solutions. Corrosion Science, 1992, 33, 1243-1252.	6.6	38
10	Carbon supported Ag and Ag-Co catalysts tolerant to methanol and ethanol for the oxygen reduction reaction in alkaline media. International Journal of Hydrogen Energy, 2016, 41, 19789-19798.	7.1	38
11	Electron-transfer bond-breaking processes: an example of nonlinear activation-driving force relationship in the reductive cleavage of the carbon-sulfur bond. The Journal of Physical Chemistry, 1993, 97, 150-157.	2.9	36
12	A contribution to the mechanism of reduced-CO <sub>2</sub> adsorbates electro-oxidation from combined spectroelectrochemical and voltammetric data. Electrochimica Acta, 1994, 39, 793-799.	5.2	36
13	DEMS and in-situ FTIR investigations of C3 primary alcohols on platinum electrodes in acid solutions.. Journal of Electroanalytical Chemistry, 1993, 353, 81-100.	3.8	35
14	The reactivity of primary C3-alcohols on gold electrodes in acid media. A comparative study based on dems data. Electrochimica Acta, 1993, 38, 1337-1344.	5.2	34
15	Double-Layer Correction for Electron-Transfer Kinetics at Glassy Carbon and Mercury Electrodes in N,N-Dimethylformamide. Electroanalysis, 2006, 18, 363-370.	2.9	34
16	Study of the electropolymerization of tetrakis (3-aminophenyl) porphyrin Fe(III) chloride on Au electrodes by cyclic voltammetry and STM. Electrochemistry Communications, 2006, 8, 779-784.	4.7	33
17	Electrocatalysis on metal carbide materials. International Journal of Hydrogen Energy, 2016, 41, 19664-19673.	7.1	33
18	Homogeneous and heterogeneous electron transfer to benzylphenylsulfide. The Journal of Physical Chemistry, 1987, 91, 466-472.	2.9	31

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19	Precise determination of Tafel slopes by DEMS. Hydrogen evolution on tungsten-based catalysts in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12576-12582.	7.1	31
20	Kinetic analysis of a slow electron transfer coupled with a fatherâ€”son reaction. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 220, 201-211.	0.1	28
21	Electron Transfer to Sulfides and Disulfides: Intrinsic Barriers and Relationship between Heterogeneous and Homogeneous Electronâ€”Transfer Kinetics. <i>Chemistry - A European Journal</i> , 2007, 13, 7983-7995.	3.3	27
22	Carbon neutral electrochemical conversion of carbon dioxide mediated by [M <sup>n+</sup> (cyclam)Cl <sub>n</sub> ] (M = Ni <sup>2+</sup> and Co <sup>3+</sup> ) on mercury free electrodes and ionic liquids as reaction media. <i>Green Chemistry</i> , 2017, 19, 1155-1162.	9.0	26
23	Electrochemical performance of Î±-Mo2C as catalyst for the hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 235-241.	3.8	26
24	Spectroscopic investigations of C3-primary alcohols on platinum electrodes in acid solutions.. <i>Journal of Electroanalytical Chemistry</i> , 1994, 371, 167-177.	3.8	20
25	Electron transfer to sulfides:. <i>Electrochimica Acta</i> , 2005, 50, 1207-1215.	5.2	19
26	Elucidation of the reaction pathways of allyl alcohol at polycrystalline palladium electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001, 505, 62-71.	3.8	17
27	The electroformation and the anodic stripping characteristics of adsorbed residues formed on platinum electrodes from acid solutions containing different alcohols. <i>Electrochimica Acta</i> , 1991, 36, 2003-2013.	5.2	16
28	FTIR studies of tyrosine oxidation at polycrystalline Pt and Pt(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 230-239.	3.8	16
29	S- and N-doped graphene-based catalysts for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020, 340, 135975.	5.2	16
30	Oxoselenide triangular molybdenum clusters: Synthesis and characterization of [Mo3SeO3(acac)3(py)3]PF6. <i>Inorganica Chimica Acta</i> , 2011, 375, 314-319.	2.4	14
31	Reduced CO2 on a polycrystalline Rh electrode in acid solution: electrochemical and in situ IR reflectance spectroscopic studies. <i>Electrochimica Acta</i> , 1998, 44, 1369-1378.	5.2	13
32	Electrochemical and AFM characterization on gold and carbon electrodes of a high redox potential laccase from <i>Fusarium proliferatum</i> . <i>Bioelectrochemistry</i> , 2010, 79, 17-24.	4.6	13
33	Multiple adsorbate interactions between reduced CO2 adsorbates and either allyl alcohol or propargyl alcohol residues on platinum in 0.5 M sulphuric acid. <i>Electrochimica Acta</i> , 1992, 37, 1083-1091.	5.2	12
34	A case of the indirect role of traces of water in the electroreduction of organic substrates. <i>Journal of Electroanalytical Chemistry</i> , 1996, 418, 47-52.	3.8	12
35	Adsorption, oxidation and reduction reactions of propargyl alcohol on palladium as studied by electrochemical mass spectrometry. <i>Journal of Electroanalytical Chemistry</i> , 1999, 472, 71-82.	3.8	12
36	Iron porphyrin-modified electrodes: influence of the method of modification on the stability and electroactivity in oxidation of sulfite or hydrogensulfite in ethanolâ€”water solutions. <i>Journal of Coordination Chemistry</i> , 2009, 62, 2782-2791.	2.2	12

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37	Coadsorption phenomena and adsorbate competition in surface electrochemical reactions involving carbon monoxide and other organic residues. <i>Electrochimica Acta</i> , 1991, 36, 2183-2187.	5.2	11
38	A DEMS study of the electroreduction and oxidation of 3-buten-2-one and 2-butanone adsorbates on platinum in sulphuric solutions. <i>Journal of Electroanalytical Chemistry</i> , 1998, 454, 161-172.	3.8	10
39	Potential-dependent competitive processes on platinum in acid solution in the presence of propargyl alcohol. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 281, 245-255.	0.1	9
40	Voltammetric approach to multicomponent electrochemical systems at platinum electrode surfaces. <i>Journal of Electroanalytical Chemistry</i> , 1992, 330, 595-614.	3.8	9
41	Preparation and Characterization of Electrodes Modified with Metalloporphyrins. Application to Reduction of Nitrite. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1723-1735.	1.0	9
42	Electrochemical and FTIR spectroscopic studies of tyrosine oxidation at polycrystalline platinum surfaces in alkaline solutions. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 523-528.	2.5	8
43	Electrical and Electrochemical Behavior of Carbon Paste Electrodes Modified with Ionic Liquids Based in N-Octylpyridinium Bis(Trifluoromethylsulfonyl)Imide. A Theoretical and Experimental Study. <i>Molecules</i> , 2019, 24, 3382.	3.8	8
44	Effect of the substituent of the cation of N-octylpyridinium hexafluorophosphate in the electrical and electrochemical response of carbon paste electrodes modified with these ionic liquids. <i>Electrochimica Acta</i> , 2017, 258, 959-969.	5.2	7
45	Preparation and reproducibility of a thermal silver-silver chloride electrode. <i>Journal of Applied Electrochemistry</i> , 1985, 15, 727-735.	2.9	6
46	Adsorption, oxidation and reduction of crotyl alcohol on platinum. <i>Electrochimica Acta</i> , 2006, 51, 5365-5375.	5.2	6
47	Enhanced Electrocatalysis of the Oxygen Reduction Reaction Using Cobalt and Iron Porphyrin/Ionic Liquid Systems. <i>Energy Technology</i> , 2019, 7, 1900698.	3.8	4
48	Electrooxidation and determination of sulfite in ethanol-water solutions using poly-Cu(II)-tetrakis(x-aminophenyl)porphyrin/glassy carbon modified electrodes. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 545-557.	1.0	3
49	Studies of the interface between mercury and solutions tetraalkylammonium salts in N,N'-dimethylformamide. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 337-344.	1.0	1
50	ELECTROOXIDATION OF SULFITE AT CARBON PASTE ELECTRODE MODIFIED WITH IONIC LIQUIDS DERIVATED OF N-OCTYL-PYRIDINIUM HEXAFLUOROPHOSPHATE WITH DIFFERENT SUBSTITUENTS IN THE CATION. <i>Journal of the Chilean Chemical Society</i> , 2017, 62, 3721-3725.	1.2	1
51	Extraction of sulfite for wastewater treatment and for analytical determination. , 0, 146, 341-350.		1