Mercedes Ruiz Montoya

List of Publications by Year
in descending order

65 papers	868 citations	566801 15 h-index	525886 27 g-index
65 all docs	65 docs citations	65 times ranked	998 citing authors

#	Article	IF	Citations
1	Comparison of the Simple Cyclic Voltammetry (CV) and DPPH Assays for the Determination of Antioxidant Capacity of Active Principles. Molecules, 2012, 17, 5126-5138.	1.7	141
2	Use of electronic nose and GC-MS in detection and monitoring some VOC. Atmospheric Environment, 2012, 51, 278-285.	1.9	87
3	A contribution to the study of the structure-mutagenicity relationship for Î±-dicarbonyl compounds using the Ames test. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1992, 269, 301-306.	0.4	44
4	A contribution to the study of the electroreduction of 2-chloro-4,6-di(ethylamino)-1,3,5-triazine (simazine) on mercury electrodes. Journal of Electroanalytical Chemistry, 1999, 474, 174-181.	1.9	36
5	EC(EE) process in the reduction of the herbicide clopyralid on mercury electrodes. Electrochimica Acta, 2006, 51, 4302-4308.	2.6	32
6	Effect of control parameters on emitted volatile compounds in municipal solid waste and pine trimmings composting. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 855-862.	0.9	28
7	Determination of Antioxidant Activity of Spices and Their Active Principles by Differential Pulse Voltammetry. Journal of Agricultural and Food Chemistry, 2014, 62, 582-589.	2.4	27
8	Ultrasound extraction optimization for bioactive molecules from Eucalyptus globulus leaves through antioxidant activity. Ultrasonics Sonochemistry, 2021, 76, 105654.	3.8	25
9	Influence of Control Parameters in VOCs Evolution during MSW Trimming Residues Composting. Journal of Agricultural and Food Chemistry, 2011, 59, 13035-13042.	2.4	22
10	On the electroreduction of 4-chloro-2,6-diisopropylamino-s-triazine (propazine) on mercury electrodes. Electrochemistry Communications, 1999, 1, 184-189.	2.3	21
11	Effect of aeration rate and moisture content on the emissions of selected VOCs during municipal solid waste composting. Journal of Material Cycles and Waste Management, 2012, 14, 371-378.	1.6	20
12	Thermogravimetry Applicability in Compost and Composting Research: A Review. Applied Sciences (Switzerland), 2021, 11, 1692.	1.3	18
13	CEC mechanisms in the electroreduction of Î±-dicarbonyl compounds on mercury electrodes. Journal of Electroanalytical Chemistry, 1994, 365, 71-78.	1.9	17
14	Maximising municipal solid waste â€" Legume trimming residue mixture degradation in composting by control parameters optimization. Journal of Environmental Management, 2013, 128, 266-273.	3.8	16
15	Energetic valorization of MSW compost valorization by selecting the maturity conditions. Journal of Environmental Management, 2019, 238, 153-158.	3.8	16
16	Study of the electrochemical reduction of nicotinamide N-oxide in aqueous solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 293, 185-195.	0.3	15
17	Correlations between chemical reactivity and mutagenic activity against S. typhimurium TA100 for Î±-dicarbonyl compounds as a proof of the mutagenic mechanism. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1994, 304, 261-264.	0.4	15
18	Analysis of the Interaction of Radical Scavengers with ROS Electrogenerated from Hydrogen Peroxide. Journal of the Electrochemical Society, 2013, 160, H213-H218.	1.3	15

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19	Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of Î±-dicarbonyl compounds. Journal of Electroanalytical Chemistry, 1994, 370, 183-187.	1.9	14
20	Reduction of the pyridine ring of niazid and isoniazid on mercury electrodes. Comparison with other NAD+ model compounds. Journal of Electroanalytical Chemistry, 1993, 348, 303-315.	1.9	13
21	EC(EE) processes in the reduction of some 2-methylthio-4,6-di(alkylamino)-1,3,5-triazines on mercury electrodes. Electrochemistry Communications, 2002, 4, 30-35.	2.3	13
22	Elucidation of the Electrochemical Oxidation Mechanism of the Antioxidant Sesamol on a Glassy Carbon Electrode. Journal of the Electrochemical Society, 2014, 161, G27-G32.	1.3	13
23	Investigation of the reduction of 1,2-cyclohexanedione and methylglyoxal on mercury electrodes under pure kinetic conditions by linear-sweep voltammetry. Journal of Electroanalytical Chemistry, 1993, 353, 217-224.	1.9	12
24	A Contribution to the Study of the Electroreduction of 2,4-Diamino-1,3,5-triazine on Mercury Electrodes. Journal of the Electrochemical Society, 2002, 149, E306.	1.3	12
25	Imidazolinone herbicides in strongly acidic media: Speciation and electroreduction. Comptes Rendus Chimie, 2011, 14, 957-962.	0.2	12
26	Exploring the relation between composition of extracts of healthy foods and their antioxidant capacities determined by electrochemical and spectrophotometrical methods. LWT - Food Science and Technology, 2018, 95, 157-166.	2.5	12
27	Determination of booster biocides in sediments by focused ultrasound-assisted extraction and stir bar sorptive extractionâ€"thermal desorptionâ€"gas chromatographyâ€"mass spectrometry. Microchemical Journal, 2020, 152, 104445.	2.3	11
28	On the Electrochemical Reduction of the Herbicide Picloram on Mercury Electrodes. Journal of the Electrochemical Society, 2006, 153, E33.	1.3	10
29	Protonationâ˘Dissociation Reactions of Imazamethabenz-Methyl and Imazamethabenz-Acid in Relation to Their Soil Sorption and Abiotic Degradation. Journal of Agricultural and Food Chemistry, 2009, 57, 11292-11296.	2.4	10
30	Mechanism of Mercury Electrooxidation in the Presence of Hydrogen Peroxide and Antioxidants. Journal of the Electrochemical Society, 2014, 161, H854-H859.	1.3	10
31	An Electrochemical Method for the Determination of Antioxidant Capacities Applied to Components of Spices and Condiments. Journal of the Electrochemical Society, 2017, 164, B97-B102.	1.3	10
32	A Voltammetric Study of the Adsorptionâ€"Desorption Processes in the Reduction of the Herbicide Picloram on Mercury Electrodes. Journal of the Electrochemical Society, 2005, 152, E379.	1.3	9
33	Comparison of the volatile antioxidant contents in the aqueous and methanolic extracts of a set of commercial spices and condiments. European Food Research and Technology, 2017, 243, 1439-1445.	1.6	9
34	Electrochemical Oxidation of Diethyl 1,4-Dihydro-2,4,6-trimethyl-3,5-pyridinedicarboxylate on a Glassy Carbon Electrode as Model Compound of NADH. Electroanalysis, 1999, 11, 32-36.	1.5	8
35	On the Adsorption and Reduction of the Herbicide Picloram on Mercury and Carbon Electrodes. Helvetica Chimica Acta, 2008, 91, 1443-1452.	1.0	7
36	MSW Compost Valorization by Pyrolysis: Influence of Composting Process Parameters. ACS Omega, 2020, 5, 20810-20816.	1.6	7

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37	Electroreduction of some pyridine carboxamides on carbon electrodes in aqueous solutions. Electroanalysis, 1997, 9, 345-349.	1.5	6
38	Reductive cleavage of chlorine from 6-chloronicotinic acid on mercury electrodes. Electrochimica Acta, 2011, 56, 4631-4637.	2.6	6
39	Electroreduction of thionicotinamide on mercury electrodes in aqueous solutions. Journal of Electroanalytical Chemistry, 1996, 402, 211-215.	1.9	5
40	Influence of Cellulose Characteristics on Pyrolysis Suitability. Processes, 2021, 9, 1584.	1.3	5
41	Reduction mechanisms of some Î±-dicarbonyl compounds in basic solutions. Journal of Electroanalytical Chemistry, 1994, 371, 215-221.	1.9	4
42	A contribution to the elucidation of the reduction mechanism of thioisonicotinamide on mercury electrodes. Journal of Electroanalytical Chemistry, 1996, 417, 113-118.	1.9	4
43	Electrooxidation of 2-Mercaptopyridine-N-oxide (Pyrithione) at Carbon Electrodes versus Mercury Electrodes. Electroanalysis, 1998, 10, 1030-1033.	1.5	4
44	On the Electroreduction Mechanism of 2-Chloro-4,6-diamino-1,3,5-triazine on Mercury Electrodes. Journal of the Electrochemical Society, 2003, 150, E389.	1.3	4
45	The Reduction of 2,6-Dimethoxy-4-chloro-1,3,5-triazine on Mercury Electrodes in Aqueous Solutions in Relation with the Reduction of s-Triazine Herbicides. Electroanalysis, 2004, 16, 1972-1976.	1.5	4
46	Effect of autohydrolysis on hemicellulose extraction and pyrolytic hydrogen production from Eucalyptus urograndis. Biomass Conversion and Biorefinery, 2022, 12, 4021-4030.	2.9	4
47	Contribution to the elucidation of the redox behaviour of camphorquinoneâ€"I. Mechanism of the reduction at mercury and platinum electrodes in aqueous and acetonitrile solutions. Electrochimica Acta, 1993, 38, 2209-2216.	2.6	3
48	Possibility of Reductive Deactivation of S-Triazines and Parent Compounds on Waters and Sediments. Water, Air, and Soil Pollution, 2005, 165, 347-364.	1.1	3
49	Electrochemical reduction of imazamethabenz methyl on mercury and carbon electrodes. Electrochimica Acta, 2010, 55, 3164-3170.	2.6	3
50	2D nucleation in the electroreduction of 8-quinolinecarboxylic acid, and the herbicide quinmerac on mercury electrodes. Electrochimica Acta, 2011, 58, 662-667.	2.6	3
51	A Contribution on the Elucidation of the Electrooxidation Mechanism of Gentisaldehyde on a Glassy Carbon Electrode. Journal of the Electrochemical Society, 2016, 163, H1127-H1131.	1.3	3
52	Evaluation of synergistic and antagonistic effects between some selected antioxidants by means of an electrochemical technique. International Journal of Food Science and Technology, 2017, 52, 1639-1644.	1.3	3
53	Spectroscopic determination of the dissociation constants of 2,4- and 2,5-dihydroxybenzaldehydes and relationships to their antioxidant activities. Comptes Rendus Chimie, 2017, 20, 365-369.	0.2	3
54	Electrochemical oxidation of isothiazolinone biocides and their interaction with cysteine. Electrochimica Acta, 2020, 337, 135770.	2.6	3

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55	Mechanistic Aspects of the Electrochemical Oxidation of Diethyl 1,4-Dihydro-2,6-dimethyl-3,5-pyridinedicarboxylate on a Glassy Carbon Electrode. Electroanalysis, 1999, 11, 1241-1244.	1.5	2
56	A Contribution to the Elucidation of the Reduction Mechanism of 2-Chloroisonicotinic Acid on Mercury Electrodes. Journal of the Electrochemical Society, 2008, 155, F190.	1.3	2
57	Electrochemical behaviour of 3,5,6-trichloro-4-methyl-pyridine-2-carboxylic acid on mercury and carbon electrodes. Electrochimica Acta, 2013, 102, 72-78.	2.6	2
58	Electrochemical Oxidation Pathways of Hydroxycoumarins on Carbon Electrodes Examined by LSCV and LCâ€“MS/MS. Journal of the Electrochemical Society, 2019, 166, H331-H335.	1.3	2
59	Theoretical equations for electrochemical processes preceded by concurrent first-order chemical reactions in DC polarography: Application to the study of the interaction between guanine and diacetyl. Electroanalysis, 1992, 4, 217-221.	1.5	1
60	Contribution to the elucidation of the redox behaviour of camphorquinoneâ€"II. Voltammetric study of the rate-controlled adsorptionâ€"desorption of the product of the electrode reaction on a mercury electrode. Electrochimica Acta, 1993, 38, 2217-2222.	2.6	1
61	Influence of controllable variables on the composting process, kinetic, and maturity of Stevia rebaudiana residues. International Journal of Recycling of Organic Waste in Agriculture, 2018, 7, 277-286.	2.0	1
62	Characterization of CE and CEC processes under pure kinetic conditions by linear-sweep voltammetry. Electroanalysis, 1994, 6, 1132-1135.	1.5	0
63	A chronoamperometric study of the oxidative nucleation of niazid and isoniazid on mercury electrodes in basic solutions. Collection of Czechoslovak Chemical Communications, 2011, 76, 755-762.	1.0	0
64	Electroreduction mechanism of 8-quinolinecarboxylic acid and the herbicide quinmerac on mercury electrodes. Electrochimica Acta, 2012, 74, 87-92.	2.6	0
65	Influence of Cellulose Characteristics on Pyrolysis Suitability. SSRN Electronic Journal, 0, , .	0.4	0