

# Mercedes Ruiz Montoya

## List of Publications by Year in descending order

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65  
papers

868  
citations

567281

15  
h-index

526287

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. <i>Molecules</i> , 2012, 17, 5126-5138.	3.8	141
2	Use of electronic nose and GC-MS in detection and monitoring some VOC. <i>Atmospheric Environment</i> , 2012, 51, 278-285.	4.1	87
3	A contribution to the study of the structure-mutagenicity relationship for $\hat{\pm}$ -dicarbonyl compounds using the Ames test. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1992, 269, 301-306.	1.0	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. <i>Journal of Electroanalytical Chemistry</i> , 1999, 474, 174-181.	3.8	36
5	EC(EE) process in the reduction of the herbicide clopyralid on mercury electrodes. <i>Electrochimica Acta</i> , 2006, 51, 4302-4308.	5.2	32
6	Effect of control parameters on emitted volatile compounds in municipal solid waste and pine trimmings composting. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 855-862.	1.7	28
7	Determination of Antioxidant Activity of Spices and Their Active Principles by Differential Pulse Voltammetry. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 582-589.	5.2	27
8	Ultrasound extraction optimization for bioactive molecules from <i>Eucalyptus globulus</i> leaves through antioxidant activity. <i>Ultrasonics Sonochemistry</i> , 2021, 76, 105654.	8.2	25
9	Influence of Control Parameters in VOCs Evolution during MSW Trimming Residues Composting. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 13035-13042.	5.2	22
10	On the electroreduction of 4-chloro-2,6-diisopropylamino-s-triazine (propazine) on mercury electrodes. <i>Electrochemistry Communications</i> , 1999, 1, 184-189.	4.7	21
11	Effect of aeration rate and moisture content on the emissions of selected VOCs during municipal solid waste composting. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 371-378.	3.0	20
12	Thermogravimetry Applicability in Compost and Composting Research: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1692.	2.5	18
13	CEC mechanisms in the electroreduction of $\hat{\pm}$ -dicarbonyl compounds on mercury electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 365, 71-78.	3.8	17
14	Maximising municipal solid waste " Legume trimming residue mixture degradation in composting by control parameters optimization. <i>Journal of Environmental Management</i> , 2013, 128, 266-273.	7.8	16
15	Energetic valorization of MSW compost valorization by selecting the maturity conditions. <i>Journal of Environmental Management</i> , 2019, 238, 153-158.	7.8	16
16	Study of the electrochemical reduction of nicotinamide N-oxide in aqueous solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 293, 185-195.	0.1	15
17	Correlations between chemical reactivity and mutagenic activity against <i>S. typhimurium</i> TA100 for $\hat{\pm}$ -dicarbonyl compounds as a proof of the mutagenic mechanism. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1994, 304, 261-264.	1.0	15
18	Analysis of the Interaction of Radical Scavengers with ROS Electrogenerated from Hydrogen Peroxide. <i>Journal of the Electrochemical Society</i> , 2013, 160, H213-H218.	2.9	15

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19	Use of convolutive potential sweep voltammetry in the calculation of hydration equilibrium constants of $\hat{1}\pm$ -dicarbonyl compounds. <i>Journal of Electroanalytical Chemistry</i> , 1994, 370, 183-187.	3.8	14
20	Reduction of the pyridine ring of niazid and isoniazid on mercury electrodes. Comparison with other NAD+ model compounds. <i>Journal of Electroanalytical Chemistry</i> , 1993, 348, 303-315.	3.8	13
21	EC(E) processes in the reduction of some 2-methylthio-4,6-di(alkylamino)-1,3,5-triazines on mercury electrodes. <i>Electrochemistry Communications</i> , 2002, 4, 30-35.	4.7	13
22	Elucidation of the Electrochemical Oxidation Mechanism of the Antioxidant Sesamol on a Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2014, 161, G27-G32.	2.9	13
23	Investigation of the reduction of 1,2-cyclohexanedione and methylglyoxal on mercury electrodes under pure kinetic conditions by linear-sweep voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 1993, 353, 217-224.	3.8	12
24	A Contribution to the Study of the Electroreduction of 2,4-Diamino-1,3,5-triazine on Mercury Electrodes. <i>Journal of the Electrochemical Society</i> , 2002, 149, E306.	2.9	12
25	Imidazolinone herbicides in strongly acidic media: Speciation and electroreduction. <i>Comptes Rendus Chimie</i> , 2011, 14, 957-962.	0.5	12
26	Exploring the relation between composition of extracts of healthy foods and their antioxidant capacities determined by electrochemical and spectrophotometrical methods. <i>LWT - Food Science and Technology</i> , 2018, 95, 157-166.	5.2	12
27	Determination of booster biocides in sediments by focused ultrasound-assisted extraction and stir bar sorptive extraction~thermal desorption~gas chromatography~mass spectrometry. <i>Microchemical Journal</i> , 2020, 152, 104445.	4.5	11
28	On the Electrochemical Reduction of the Herbicide Picloram on Mercury Electrodes. <i>Journal of the Electrochemical Society</i> , 2006, 153, E33.	2.9	10
29	Protonation~Dissociation Reactions of Imazamethabenz-Methyl and Imazamethabenz-Acid in Relation to Their Soil Sorption and Abiotic Degradation. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 11292-11296.	5.2	10
30	Mechanism of Mercury Electrooxidation in the Presence of Hydrogen Peroxide and Antioxidants. <i>Journal of the Electrochemical Society</i> , 2014, 161, H854-H859.	2.9	10
31	An Electrochemical Method for the Determination of Antioxidant Capacities Applied to Components of Spices and Condiments. <i>Journal of the Electrochemical Society</i> , 2017, 164, B97-B102.	2.9	10
32	A Voltammetric Study of the Adsorption~Desorption Processes in the Reduction of the Herbicide Picloram on Mercury Electrodes. <i>Journal of the Electrochemical Society</i> , 2005, 152, E379.	2.9	9
33	Comparison of the volatile antioxidant contents in the aqueous and methanolic extracts of a set of commercial spices and condiments. <i>European Food Research and Technology</i> , 2017, 243, 1439-1445.	3.3	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. <i>Electroanalysis</i> , 1999, 11, 32-36.	2.9	8
35	On the Adsorption and Reduction of the Herbicide Picloram on Mercury and Carbon Electrodes. <i>Helvetica Chimica Acta</i> , 2008, 91, 1443-1452.	1.6	7
36	MSW Compost Valorization by Pyrolysis: Influence of Composting Process Parameters. <i>ACS Omega</i> , 2020, 5, 20810-20816.	3.5	7

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37	Electroreduction of some pyridine carboxamides on carbon electrodes in aqueous solutions. <i>Electroanalysis</i> , 1997, 9, 345-349.	2.9	6
38	Reductive cleavage of chlorine from 6-chloronicotinic acid on mercury electrodes. <i>Electrochimica Acta</i> , 2011, 56, 4631-4637.	5.2	6
39	Electroreduction of thionicotinamide on mercury electrodes in aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , 1996, 402, 211-215.	3.8	5
40	Influence of Cellulose Characteristics on Pyrolysis Suitability. <i>Processes</i> , 2021, 9, 1584.	2.8	5
41	Reduction mechanisms of some $\alpha$ -dicarbonyl compounds in basic solutions. <i>Journal of Electroanalytical Chemistry</i> , 1994, 371, 215-221.	3.8	4
42	A contribution to the elucidation of the reduction mechanism of thioisonicotinamide on mercury electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 417, 113-118.	3.8	4
43	Electrooxidation of 2-Mercaptopyridine-N-oxide (Pyrithione) at Carbon Electrodes versus Mercury Electrodes. <i>Electroanalysis</i> , 1998, 10, 1030-1033.	2.9	4
44	On the Electroreduction Mechanism of 2-Chloro-4,6-diamino-1,3,5-triazine on Mercury Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, E389.	2.9	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. <i>Electroanalysis</i> , 2004, 16, 1972-1976.	2.9	4
46	Effect of autohydrolysis on hemicellulose extraction and pyrolytic hydrogen production from <i>Eucalyptus urograndis</i> . <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4021-4030.	4.6	4
47	Contribution to the elucidation of the redox behaviour of camphorquinone. I. Mechanism of the reduction at mercury and platinum electrodes in aqueous and acetonitrile solutions. <i>Electrochimica Acta</i> , 1993, 38, 2209-2216.	5.2	3
48	Possibility of Reductive Deactivation of S-Triazines and Parent Compounds on Waters and Sediments. <i>Water, Air, and Soil Pollution</i> , 2005, 165, 347-364.	2.4	3
49	Electrochemical reduction of imazamethabenz methyl on mercury and carbon electrodes. <i>Electrochimica Acta</i> , 2010, 55, 3164-3170.	5.2	3
50	2D nucleation in the electroreduction of 8-quinolinecarboxylic acid, and the herbicide quinmerac on mercury electrodes. <i>Electrochimica Acta</i> , 2011, 58, 662-667.	5.2	3
51	A Contribution on the Elucidation of the Electrooxidation Mechanism of Gentsaldehyde on a Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2016, 163, H1127-H1131.	2.9	3
52	Evaluation of synergistic and antagonistic effects between some selected antioxidants by means of an electrochemical technique. <i>International Journal of Food Science and Technology</i> , 2017, 52, 1639-1644.	2.7	3
53	Spectroscopic determination of the dissociation constants of 2,4- and 2,5-dihydroxybenzaldehydes and relationships to their antioxidant activities. <i>Comptes Rendus Chimie</i> , 2017, 20, 365-369.	0.5	3
54	Electrochemical oxidation of isothiazolinone biocides and their interaction with cysteine. <i>Electrochimica Acta</i> , 2020, 337, 135770.	5.2	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. <i>Electroanalysis</i> , 1999, 11, 1241-1244.	2.9	2
56	A Contribution to the Elucidation of the Reduction Mechanism of 2-Chloroisonicotinic Acid on Mercury Electrodes. <i>Journal of the Electrochemical Society</i> , 2008, 155, F190.	2.9	2
57	Electrochemical behaviour of 3,5,6-trichloro-4-methyl-pyridine-2-carboxylic acid on mercury and carbon electrodes. <i>Electrochimica Acta</i> , 2013, 102, 72-78.	5.2	2
58	Electrochemical Oxidation Pathways of Hydroxycoumarins on Carbon Electrodes Examined by LSCV and LC-MS/MS. <i>Journal of the Electrochemical Society</i> , 2019, 166, H331-H335.	2.9	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. <i>Electroanalysis</i> , 1992, 4, 217-221.	2.9	1
60	Contribution to the elucidation of the redox behaviour of camphorquinone <sup>II</sup> . Voltammetric study of the rate-controlled adsorption-desorption of the product of the electrode reaction on a mercury electrode. <i>Electrochimica Acta</i> , 1993, 38, 2217-2222.	5.2	1
61	Influence of controllable variables on the composting process, kinetic, and maturity of <i>Stevia rebaudiana</i> residues. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2018, 7, 277-286.	2.0	1
62	Characterization of CE and CEC processes under pure kinetic conditions by linear-sweep voltammetry. <i>Electroanalysis</i> , 1994, 6, 1132-1135.	2.9	0
63	A chronoamperometric study of the oxidative nucleation of niazid and isoniazid on mercury electrodes in basic solutions. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 755-762.	1.0	0
64	Electroreduction mechanism of 8-quinolinecarboxylic acid and the herbicide quinmerac on mercury electrodes. <i>Electrochimica Acta</i> , 2012, 74, 87-92.	5.2	0
65	Influence of Cellulose Characteristics on Pyrolysis Suitability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0