

Rosa Maria Rodriguez

List of Publications by Year in descending order

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64
papers

5,800
citations

66234

42
h-index

114278

63
g-index

64
all docs

64
docs citations

64
times ranked

4037
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of olive oil mill wastewater by single electrocoagulation with different electrodes and sequential electrocoagulation/electrochemical Fenton-based processes. <i>Journal of Hazardous Materials</i> , 2018, 347, 58-66.	6.5	88
2	Electrochemical destruction of trans-cinnamic acid by advanced oxidation processes: kinetics, mineralization, and degradation route. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6071-6082.	2.7	10
3	Removal of 4-hydroxyphenylacetic acid from aqueous medium by electrochemical oxidation with a BDD anode: Mineralization, kinetics and oxidation products. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 58-65.	1.9	24
4	4-Hydroxyphenylacetic acid oxidation in sulfate and real olive oil mill wastewater by electrochemical advanced processes with a boron-doped diamond anode. <i>Journal of Hazardous Materials</i> , 2017, 321, 566-575.	6.5	47
5	Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>Catalysts</i> , 2016, 6, 125.	1.6	6
6	Degradation of trans-ferulic acid in acidic aqueous medium by anodic oxidation, electro-Fenton and photoelectro-Fenton. <i>Journal of Hazardous Materials</i> , 2016, 319, 3-12.	6.5	49
7	Routes for the electrochemical degradation of the artificial food azo-colour Ponceau 4R by advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 227-236.	10.8	79
8	Electrochemical Oxidation of the Carbon Support to Synthesize Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Low-Temperature Fuel Cells. <i>Catalysts</i> , 2015, 5, 815-837.	1.6	16
9	Decolorization and mineralization of Allura Red AC aqueous solutions by electrochemical advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2015, 290, 34-42.	6.5	80
10	Comparative use of anodic oxidation, electro-Fenton and photoelectro-Fenton with Pt or boron-doped diamond anode to decolorize and mineralize Malachite Green oxalate dye. <i>Electrochimica Acta</i> , 2015, 182, 247-256.	2.6	61
11	Effect of anions on electrochemical degradation of azo dye Carmoisine (Acid Red 14) using a BDD anode and air-diffusion cathode. <i>Separation and Purification Technology</i> , 2015, 140, 43-52.	3.9	130
12	Decolorization and mineralization of Orange G azo dye solutions by anodic oxidation with a boron-doped diamond anode in divided and undivided tank reactors. <i>Electrochimica Acta</i> , 2014, 130, 568-576.	2.6	96
13	Electrochemical synthesis and characterization of carbon-supported Pt and Pt-Ru nanoparticles with Cu cores for CO and methanol oxidation in polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12859-12869.	3.8	21
14	Electro-Fenton degradation of the antibiotic sulfanilamide with Pt/carbon-felt and BDD/carbon-felt cells. Kinetics, reaction intermediates, and toxicity assessment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8368-8378.	2.7	105
15	Comparative electro-Fenton and UVA photoelectro-Fenton degradation of the antibiotic sulfanilamide using a stirred BDD/air-diffusion tank reactor. <i>Chemical Engineering Journal</i> , 2013, 234, 115-123.	6.6	69
16	Electro-Fenton and photoelectro-Fenton degradation of the antimicrobial sulfamethazine using a boron-doped diamond anode and an air-diffusion cathode. <i>Journal of Electroanalytical Chemistry</i> , 2013, 701, 7-13.	1.9	53
17	Carbon monoxide, methanol and ethanol electro-oxidation on Ru-decorated carbon-supported Pt nanoparticles prepared by spontaneous deposition. <i>Journal of Power Sources</i> , 2013, 225, 163-171.	4.0	20
18	Structural analysis of carbon-supported Ru-decorated Pt nanoparticles synthesized using forced deposition and catalytic performance toward CO, methanol, and ethanol electro-oxidation. <i>Journal of Catalysis</i> , 2013, 298, 112-121.	3.1	20

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19	Sn-modified carbon-supported Pt nanoparticles synthesized using spontaneous deposition as electrocatalysts for direct alcohol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16418-16426.	3.8	8
20	Electrochemical incineration of the antimicrobial sulfamethazine at a boron-doped diamond anode. <i>Electrochimica Acta</i> , 2013, 90, 254-264.	2.6	51
21	Degradation of sulfanilamide in acidic medium by anodic oxidation with a boron-doped diamond anode. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 149-157.	1.9	44
22	Mineralization of sulfanilamide by electro-Fenton and solar photoelectro-Fenton in a pre-pilot plant with a Pt/air-diffusion cell. <i>Chemosphere</i> , 2013, 91, 1324-1331.	4.2	60
23	Electro-Fenton and Photoelectro-Fenton Degradation of Sulfanilic Acid Using a Boron-Doped Diamond Anode and an Air Diffusion Cathode. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3404-3412.	1.1	40
24	Structural Characterization of Ru-Modified Carbon-Supported Pt Nanoparticles Using Spontaneous Deposition with CO Oxidation Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18469-18478.	1.5	21
25	Mineralization of flumequine in acidic medium by electro-Fenton and photoelectro-Fenton processes. <i>Water Research</i> , 2012, 46, 2067-2076.	5.3	136
26	Kinetic effect of the ionomer on the oxygen reduction in carbon-supported Pt electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17828-17836.	3.8	16
27	Electrochemical incineration of sulfanilic acid at a boron-doped diamond anode. <i>Chemosphere</i> , 2012, 87, 1126-1133.	4.2	31
28	Carbon monoxide and methanol oxidation on potential-modified Pt/Ru/C electrocatalyst for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2012, 208, 306-315.	4.0	7
29	Optimization of the electro-Fenton and solar photoelectro-Fenton treatments of sulfanilic acid solutions using a pre-pilot flow plant by response surface methodology. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 288-297.	6.5	90
30	Mineralization of Metoprolol by Electro-Fenton and Photoelectro-Fenton Processes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1234-1242.	1.1	56
31	Degradation of pharmaceutical beta-blockers by electrochemical advanced oxidation processes using a flow plant with a solar compound parabolic collector. <i>Water Research</i> , 2011, 45, 4119-4130.	5.3	92
32	Comparative decolorization of monoazo, diazo and triazo dyes by electro-Fenton process. <i>Electrochimica Acta</i> , 2011, 58, 303-311.	2.6	113
33	Kinetic analysis of carbon monoxide and methanol oxidation on high performance carbon-supported Pt/Ru electrocatalyst for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 3503-3512.	4.0	123
34	Electro-Fenton and photoelectro-Fenton degradations of the drug beta-blocker propranolol using a Pt anode: Identification and evolution of oxidation products. <i>Journal of Hazardous Materials</i> , 2011, 185, 1228-1235.	6.5	36
35	Degradation of the fluoroquinolone enrofloxacin by electrochemical advanced oxidation processes based on hydrogen peroxide electrogeneration. <i>Electrochimica Acta</i> , 2010, 55, 2101-2115.	2.6	178
36	Structure of carbon-supported Pt/Ru nanoparticles and their electrocatalytic behavior for hydrogen oxidation reaction. <i>Journal of Power Sources</i> , 2010, 195, 710-719.	4.0	22

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37	Electroactivity of high performance unsupported Pt-Ru nanoparticles in the presence of hydrogen and carbon monoxide. International Journal of Hydrogen Energy, 2010, 35, 11591-11600.	3.8	6
38	Degradation of the beta-blocker propranolol by electrochemical advanced oxidation processes based on Fenton's reaction chemistry using a boron-doped diamond anode. Electrochimica Acta, 2010, 56, 215-221.	2.6	40
39	Mineralization of the drug β -blocker atenolol by electro-Fenton and photoelectro-Fenton using an air-diffusion cathode for H ₂ O ₂ electrogeneration combined with a carbon-felt cathode for Fe ²⁺ regeneration. Applied Catalysis B: Environmental, 2010, 96, 361-369.	10.8	185
40	Electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton degradation of the drug ibuprofen in acid aqueous medium using platinum and boron-doped diamond anodes. Electrochimica Acta, 2009, 54, 2077-2085.	2.6	218
41	Structure and electrocatalytic performance of carbon-supported platinum nanoparticles. Journal of Power Sources, 2009, 190, 201-209.	4.0	56
42	Solar photoassisted anodic oxidation of carboxylic acids in presence of Fe ³⁺ using a boron-doped diamond electrode. Applied Catalysis B: Environmental, 2009, 89, 459-468.	10.8	48
43	Mineralization of salicylic acid in acidic aqueous medium by electrochemical advanced oxidation processes using platinum and boron-doped diamond as anode and cathodically generated hydrogen peroxide. Water Research, 2008, 42, 499-511.	5.3	247
44	Mineralization of the biocide chloroxylenol by electrochemical advanced oxidation processes. Chemosphere, 2008, 71, 1718-1729.	4.2	134
45	Degradation of clofibric acid in acidic aqueous medium by electro-Fenton and photoelectro-Fenton. Chemosphere, 2007, 66, 1660-1669.	4.2	140
46	Degradation of the herbicide 2,4-DP by anodic oxidation, electro-Fenton and photoelectro-Fenton using platinum and boron-doped diamond anodes. Chemosphere, 2007, 68, 199-209.	4.2	153
47	Mineralization of herbicide mecoprop by photoelectro-Fenton with UVA and solar light. Catalysis Today, 2007, 129, 29-36.	2.2	138
48	Catalytic behavior of the Fe ³⁺ /Fe ²⁺ system in the electro-Fenton degradation of the antimicrobial chlorophene. Applied Catalysis B: Environmental, 2007, 72, 382-394.	10.8	356
49	Mineralization of clofibric acid by electrochemical advanced oxidation processes using a boron-doped diamond anode and Fe ²⁺ and UVA light as catalysts. Applied Catalysis B: Environmental, 2007, 72, 373-381.	10.8	125
50	Solar photoelectro-Fenton degradation of cresols using a flow reactor with a boron-doped diamond anode. Applied Catalysis B: Environmental, 2007, 75, 17-28.	10.8	154
51	Electro-Fenton degradation of antimicrobials triclosan and triclocarban. Electrochimica Acta, 2007, 52, 5493-5503.	2.6	219
52	Electrochemical combustion of herbicide mecoprop in aqueous medium using a flow reactor with a boron-doped diamond anode. Chemosphere, 2006, 64, 892-902.	4.2	107
53	Electrochemical degradation of clofibric acid in water by anodic oxidation. Electrochimica Acta, 2006, 52, 75-85.	2.6	144
54	Mineralization of paracetamol by ozonation catalyzed with Fe ²⁺ , Cu ²⁺ and UVA light. Applied Catalysis B: Environmental, 2006, 66, 228-240.	10.8	162

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55	Degradation of 4,6-dinitro-o-cresol from water by anodic oxidation with a boron-doped diamond electrode. <i>Electrochimica Acta</i> , 2005, 50, 3685-3692.	2.6	91
56	Removal of the herbicide amitrole from water by anodic oxidation and electro-Fenton. <i>Environmental Chemistry Letters</i> , 2005, 3, 7-11.	8.3	64
57	Mineralization of paracetamol in aqueous medium by anodic oxidation with a boron-doped diamond electrode. <i>Chemosphere</i> , 2005, 58, 399-406.	4.2	293
58	Paracetamol Mineralization by Advanced Electrochemical Oxidation Processes for Wastewater Treatment. <i>Environmental Chemistry</i> , 2004, 1, 26.	0.7	35
59	Degradation of the herbicide 2,4-DP by catalyzed ozonation using the O ₃ /Fe ²⁺ /UVA system. <i>Applied Catalysis B: Environmental</i> , 2004, 51, 117-127.	10.8	39
60	Electrochemical destruction of chlorophenoxy herbicides by anodic oxidation and electro-Fenton using a boron-doped diamond electrode. <i>Electrochimica Acta</i> , 2004, 49, 4487-4496.	2.6	383
61	Catalytic effect of Fe ²⁺ , Cu ²⁺ and UVA light on the electrochemical degradation of nitrobenzene using an oxygen-diffusion cathode. <i>New Journal of Chemistry</i> , 2004, 28, 314-322.	1.4	162
62	Electrochemical Behavior of the Cd(II)/Cd(Hg) System in Aqueous Mixtures of Diols and Triols. <i>Journal of the Electrochemical Society</i> , 1992, 139, 2713-2719.	1.3	2
63	Medium effect on the electrochemical behaviour of the Cd(II)/Cd(Hg) system in propane-1,2-diol-water mixtures. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 2813.	1.0	1
64	Electrode kinetics of the Cd(II)/Cd(Hg) system in ethylene glycol-water mixtures. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986, 82, 1781.	1.0	0