Rosa Maria Rodriguez

List of Publications by Year
in descending order

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	Electrochemical destruction of chlorophenoxy herbicides by anodic oxidation and electro-Fenton using a boron-doped diamond electrode. Electrochimica Acta, 2004, 49, 4487-4496.	2.6	383
2	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
3	Mineralization of paracetamol in aqueous medium by anodic oxidation with a boron-doped diamond electrode. Chemosphere, 2005, 58, 399-406.	4.2	293
4	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
5	Electro-Fenton degradation of antimicrobials triclosan and triclocarban. Electrochimica Acta, 2007, 52, 5493-5503.	2.6	219
6	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
7	Mineralization of the drug Î2-blocker atenolol by electro-Fenton and photoelectro-Fenton using an air-diffusion cathode for H_2O_2 electrogeneration combined with a carbon-felt cathode for Fe^{2+} regeneration. Applied Catalysis B: Environmental, 2010, 96, 361-369.	10.8	185
8	Degradation of the fluoroquinolone enrofloxacin by electrochemical advanced oxidation processes based on hydrogen peroxide electrogeneration. Electrochimica Acta, 2010, 55, 2101-2115.	2.6	178
9	Catalytic effect of Fe^{2+}, $Cu^{2+}$and UVA light on the electrochemical degradation of nitrobenzene using an oxygen-diffusion cathode. New Journal of Chemistry, 2004, 28, 314-322.	1.4	162
10	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
11	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
12	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
13	Electrochemical degradation of clofibric acid in water by anodic oxidation. Electrochimica Acta, 2006, 52, 75-85.	2.6	144
14	Degradation of clofibric acid in acidic aqueous medium by electro-Fenton and photoelectro-Fenton. Chemosphere, 2007, 66, 1660-1669.	4.2	140
15	Mineralization of herbicide mecoprop by photoelectro-Fenton with UVA and solar light. Catalysis Today, 2007, 129, 29-36.	2.2	138
16	Mineralization of flumequine in acidic medium by electro-Fenton and photoelectro-Fenton processes. Water Research, 2012, 46, 2067-2076.	5.3	136
17	Mineralization of the biocide chloroxylenol by electrochemical advanced oxidation processes. Chemosphere, 2008, 71, 1718-1729.	4.2	134
18	Effect of anions on electrochemical degradation of azo dye Carmoisine (Acid Red 14) using a BDD anode and air-diffusion cathode. Separation and Purification Technology, 2015, 140, 43-52.	3.9	130

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19	Mineralization of clofibric acid by electrochemical advanced oxidation processes using a boron-doped diamond anode and Fe2+ and UVA light as catalysts. Applied Catalysis B: Environmental, 2007, 72, 373-381.	10.8	125
20	Kinetic analysis of carbon monoxide and methanol oxidation on high performance carbon-supported Ptâ€“Ru electrocatalyst for direct methanol fuel cells. Journal of Power Sources, 2011, 196, 3503-3512.	4.0	123
21	Comparative decolorization of monoazo, diazo and triazo dyes by electro-Fenton process. Electrochimica Acta, 2011, 58, 303-311.	2.6	113
22	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
23	Electro-Fenton degradation of the antibiotic sulfanilamide with Pt/carbon-felt and BDD/carbon-felt cells. Kinetics, reaction intermediates, and toxicity assessment. Environmental Science and Pollution Research, 2014, 21, 8368-8378.	2.7	105
24	Decolorization and mineralization of Orange G azo dye solutions by anodic oxidation with a boron-doped diamond anode in divided and undivided tank reactors. Electrochimica Acta, 2014, 130, 568-576.	2.6	96
25	Degradation of pharmaceutical beta-blockers by electrochemical advanced oxidation processes using a flow plant with a solar compound parabolic collector. Water Research, 2011, 45, 4119-4130.	5.3	92
26	Degradation of 4,6-dinitro-o-cresol from water by anodic oxidation with a boron-doped diamond electrode. Electrochimica Acta, 2005, 50, 3685-3692.	2.6	91
27	Optimization of the electro-Fenton and solar photoelectro-Fenton treatments of sulfanilic acid solutions using a pre-pilot flow plant by response surface methodology. Journal of Hazardous Materials, 2012, 221-222, 288-297.	6.5	90
28	Treatment of olive oil mill wastewater by single electrocoagulation with different electrodes and sequential electrocoagulation/electrochemical Fenton-based processes. Journal of Hazardous Materials, 2018, 347, 58-66.	6.5	88
29	Decolorization and mineralization of Allura Red AC aqueous solutions by electrochemical advanced oxidation processes. Journal of Hazardous Materials, 2015, 290, 34-42.	6.5	80
30	Routes for the electrochemical degradation of the artificial food azo-colour Ponceau 4R by advanced oxidation processes. Applied Catalysis B: Environmental, 2016, 180, 227-236.	10.8	79
31	Comparative electro-Fenton and UVA photoelectro-Fenton degradation of the antibiotic sulfanilamide using a stirred BDD/air-diffusion tank reactor. Chemical Engineering Journal, 2013, 234, 115-123.	6.6	69
32	Removal of the herbicide amitrole from water by anodic oxidation and electro-Fenton. Environmental Chemistry Letters, 2005, 3, 7-11.	8.3	64
33	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. Electrochimica Acta, 2015, 182, 247-256.	2.6	61
34	Mineralization of sulfanilamide by electro-Fenton and solar photoelectro-Fenton in a pre-pilot plant with a Pt/air-diffusion cell. Chemosphere, 2013, 91, 1324-1331.	4.2	60
35	Structure and electrocatalytic performance of carbon-supported platinum nanoparticles. Journal of Power Sources, 2009, 190, 201-209.	4.0	56
36	Mineralization of Metoprolol by Electro-Fenton and Photoelectro-Fenton Processes. Journal of Physical Chemistry A, 2011, 115, 1234-1242.	1.1	56

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37	Electro-Fenton and photoelectro-Fenton degradation of the antimicrobial sulfamethazine using a boron-doped diamond anode and an air-diffusion cathode. Journal of Electroanalytical Chemistry, 2013, 701, 7-13.	1.9	53
38	Electrochemical incineration of the antimicrobial sulfamethazine at a boron-doped diamond anode. Electrochimica Acta, 2013, 90, 254-264.	2.6	51
39	Degradation of trans-ferulic acid in acidic aqueous medium by anodic oxidation, electro-Fenton and photoelectro-Fenton. Journal of Hazardous Materials, 2016, 319, 3-12.	6.5	49
40	Solar photoassisted anodic oxidation of carboxylic acids in presence of Fe3+ using a boron-doped diamond electrode. Applied Catalysis B: Environmental, 2009, 89, 459-468.	10.8	48
41	4-Hydroxyphenylacetic acid oxidation in sulfate and real olive oil mill wastewater by electrochemical advanced processes with a boron-doped diamond anode. Journal of Hazardous Materials, 2017, 321, 566-575.	6.5	47
42	Degradation of sulfanilamide in acidic medium by anodic oxidation with a boron-doped diamond anode. Journal of Electroanalytical Chemistry, 2013, 689, 149-157.	1.9	44
43	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
44	Electro-Fenton and Photoelectro-Fenton Degradation of Sulfanilic Acid Using a Boron-Doped Diamond Anode and an Air Diffusion Cathode. Journal of Physical Chemistry A, 2012, 116, 3404-3412.	1.1	40
45	Degradation of the herbicide 2,4-DP by catalyzed ozonation using the O3/Fe2+/UVA system. Applied Catalysis B: Environmental, 2004, 51, 117-127.	10.8	39
46	Electro-Fenton and photoelectro-Fenton degradations of the drug beta-blocker propranolol using a Pt anode: Identification and evolution of oxidation products. Journal of Hazardous Materials, 2011, 185, 1228-1235.	6.5	36
47	Paracetamol Mineralization by Advanced Electrochemical Oxidation Processes for Wastewater Treatment. Environmental Chemistry, 2004, 1, 26.	0.7	35
48	Electrochemical incineration of sulfanilic acid at a boron-doped diamond anode. Chemosphere, 2012, 87, 1126-1133.	4.2	31
49	Removal of 4-hydroxyphenylacetic acid from aqueous medium by electrochemical oxidation with a BDD anode: Mineralization, kinetics and oxidation products. Journal of Electroanalytical Chemistry, 2017, 793, 58-65.	1.9	24
50	Structure of carbon-supported Ptâ€“Ru nanoparticles and their electrocatalytic behavior for hydrogen oxidation reaction. Journal of Power Sources, 2010, 195, 710-719.	4.0	22
51	Structural Characterization of Ru-Modified Carbon-Supported Pt Nanoparticles Using Spontaneous Deposition with CO Oxidation Activity. Journal of Physical Chemistry C, 2012, 116, 18469-18478.	1.5	21
52	Electrochemical synthesis and characterization of carbon-supported Pt and Ptâ€“Ru nanoparticles with Cu cores for CO and methanol oxidation in polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2014, 39, 12859-12869.	3.8	21
53	Carbon monoxide, methanol and ethanol electro-oxidation on Ru-decorated carbon-supported Pt nanoparticles prepared by spontaneous deposition. Journal of Power Sources, 2013, 225, 163-171.	4.0	20
54	Structural analysis of carbon-supported Ru-decorated Pt nanoparticles synthesized using forced deposition and catalytic performance toward CO, methanol, and ethanol electro-oxidation. Journal of Catalysis, 2013, 298, 112-121.	3.1	20

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55	Kinetic effect of the ionomer on the oxygen reduction in carbon-supported Pt electrocatalysts. International Journal of Hydrogen Energy, 2012, 37, 17828-17836.	3.8	16
56	Electrochemical Oxidation of the Carbon Support to Synthesize Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Low-Temperature Fuel Cells. Catalysts, 2015, 5, 815-837.	1.6	16
57	Electrochemical destruction of trans-cinnamic acid by advanced oxidation processes: kinetics, mineralization, and degradation route. Environmental Science and Pollution Research, 2017, 24, 6071-6082.	2.7	10
58	Sn-modified carbon-supported Pt nanoparticles synthesized using spontaneous deposition as electrocatalysts for direct alcohol fuel cells. International Journal of Hydrogen Energy, 2013, 38, 16418-16426.	3.8	8
59	Carbon monoxide and methanol oxidation on potential-modified Ptâ€“Ru/C electrocatalyst for polymer electrolyte fuel cells. Journal of Power Sources, 2012, 208, 306-315.	4.0	7
60	Electroactivity of high performance unsupported Ptâ€“Ru nanoparticles in the presence of hydrogen and carbon monoxideâ˜†. International Journal of Hydrogen Energy, 2010, 35, 11591-11600.	3.8	6
61	Effects of the Electrodeposition Time in the Synthesis of Carbon-Supported Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Polymer Electrolye Fuel Cells. Catalysts, 2016, 6, 125.	1.6	6
62	Electrochemical Behavior of the Cd(II)/Cd(Hg) System in Aqueous Mixtures of Diols and Triols. Journal of the Electrochemical Society, 1992, 139, 2713-2719.	1.3	2
63	Medium effect on the electrochemical behaviour of the CdII/Cd (Hg) system in propane-1,2-diolâ€“water mixtures. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 2813.	1.0	1
64	Electrode kinetics of the CdII/Cdâ€“Hg system in ethylene glycolâ€“water mixtures. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 1781.	1.0	0