Salvador Cotillas

List of Publications by Year
in descending order

50 papers	1,845 citations	218381 26 h-index	276539 41 g-index
52 all docs	52 docs citations	52 times ranked	1507 citing authors

#	Article	IF	Citations
1	Removal of Procion Red MX-5B dye from wastewater by conductive-diamond electrochemical oxidation. Electrochimica Acta, 2018, 263, 1-7.	2.6	124
2	Electrolytic and electro-irradiated processes with diamond anodes for the oxidation of persistent pollutants and disinfection of urban treated wastewater. Journal of Hazardous Materials, 2016, 319, 93-101.	6.5	91
3	Optimization of an integrated electrodisinfection/electrocoagulation process with Al bipolar electrodes for urban wastewater reclamation. Water Research, 2013, 47, 1741-1750.	5.3	88
4	Environmental applications of electrochemical technology. What is needed to enable full-scale applications?. Current Opinion in Electrochemistry, 2019, 16, 149-156.	2.5	87
5	Removal of herbicide glyphosate by conductive-diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2016, 188, 305-312.	10.8	82
6	Use of carbon felt cathodes for the electrochemical reclamation of urban treated wastewaters. Applied Catalysis B: Environmental, 2015, 162, 252-259.	10.8	79
7	Removal of sulfate from mining waters by electrocoagulation. Separation and Purification Technology, 2017, 182, 87-93.	3.9	73
8	Effect of bipolar electrode material on the reclamation of urban wastewater by an integrated electrodisinfection/electrocoagulation process. Water Research, 2014, 53, 329-338.	5.3	64
9	Electrolytic and electro-irradiated technologies for the removal of chloramphenicol in synthetic urine with diamond anodes. Water Research, 2018, 128, 383-392.	5.3	61
10	Irradiation-assisted electrochemical processes for the removal of persistent organic pollutants from wastewater. Journal of Applied Electrochemistry, 2015, 45, 799-808.	1.5	48
11	Disinfection of urine by conductive-diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2018, 229, 63-70.	10.8	48
12	Treatment of mining wastewater polluted with cyanide by coagulation processes: A mechanistic study. Separation and Purification Technology, 2020, 237, 116345.	3.9	46
13	Improving the biodegradability of hospital urines polluted with chloramphenicol by the application of electrochemical oxidation. Science of the Total Environment, 2020, 725, 138430.	3.9	46
14	Degradation of dye Procion Red MX-5B by electrolytic and electro-irradiated technologies using diamond electrodes. Chemosphere, 2018, 199, 445-452.	4.2	45
15	Synergistic integration of sonochemical and electrochemical disinfection with DSA anodes. Chemosphere, 2016, 163, 562-568.	4.2	42
16	Use of conductive diamond photo-electrochemical oxidation for the removal of pesticide glyphosate. Separation and Purification Technology, 2016, 167, 127-135.	3.9	42
17	Use of DiaCell modules for the electro-disinfection of secondary-treated wastewater with diamond anodes. Chemical Engineering Journal, 2016, 306, 433-440.	6.6	40
18	Is it really important the addition of salts for the electrolysis of soil washing effluents?. Electrochimica Acta, 2017, 246, 372-379.	2.6	40

#	Article	IF	Citations
19	Scaling-up an integrated electrodisinfection-electrocoagulation process for wastewater reclamation. Chemical Engineering Journal, 2020, 380, 122415.	6.6	39
20	A review on disinfection technologies for controlling the antibiotic resistance spread. Science of the Total Environment, 2021, 797, 149150.	3.9	37
21	Removal of pharmaceuticals from the urine of polymedicated patients: A first approach. Chemical Engineering Journal, 2018, 331, 606-614.	6.6	36
22	Removal of pendimethalin from soil washing effluents using electrolytic and electro-irradiated technologies based on diamond anodes. Applied Catalysis B: Environmental, 2017, 213, 190-197.	10.8	35
23	Coupling UV irradiation and electrocoagulation for reclamation of urban wastewater. Electrochimica Acta, 2014, 140, 396-403.	2.6	34
24	The Role of the Anode Material in Selective Penicillin G Oxidation in Urine. ChemElectroChem, 2019, 6, 1376-1384.	1.7	31
25	Novel electrodialysisâ€“electrochlorination integrated process for the reclamation of treated wastewaters. Separation and Purification Technology, 2014, 132, 362-369.	3.9	29
26	Conductive diamond sono-electrochemical disinfection (CDSED) for municipal wastewater reclamation. Ultrasonics Sonochemistry, 2015, 22, 493-498.	3.8	27
27	Single and combined electrochemical oxidation driven processes for the treatment of slaughterhouse wastewater. Journal of Cleaner Production, 2020, 270, 121858.	4.6	27
28	Activation by light irradiation of oxidants electrochemically generated during Rhodamine B elimination. Journal of Electroanalytical Chemistry, 2015, 757, 144-149.	1.9	26
29	Enhancement of UV disinfection of urine matrixes by electrochemical oxidation. Journal of Hazardous Materials, 2021, 410, 124548.	6.5	23
30	The role of chloramines on the electrodisinfection of Klebsiella pneumoniae in hospital urines. Chemical Engineering Journal, 2021, 409, 128253.	6.6	23
31	Improvements in the Electrochemical Production of Ferrates with Conductive Diamond Anodes Using Goethite as Raw Material and Ultrasound. Industrial & Engineering Chemistry Research, 2011, 50, 7073-7076.	1.8	22
32	Treatment of Soil-Washing Effluents Polluted with Herbicide Oxyfluorfen by Combined Biosorptionâ€“Electrolysis. Industrial & Engineering Chemistry Research, 2017, 56, 1903-1910.	1.8	22
33	Removal of 2,4-D herbicide in soils using a combined process based on washing and adsorption electrochemically assisted. Separation and Purification Technology, 2018, 194, 19-25.	3.9	22
34	Electrochemical Synthesis of Peroxyacetic Acid Using Conductive Diamond Electrodes. Industrial & Engineering Chemistry Research, 2011, 50, 10889-10893.	1.8	21
35	Disinfection of polymicrobial urines by electrochemical oxidation: Removal of antibiotic-resistant bacteria and genes. Journal of Hazardous Materials, 2022, 426, 128028.	6.5	20
36	Scale-up of electrolytic and photoelectrolytic processes for water reclaiming: a preliminary study. Environmental Science and Pollution Research, 2016, 23, 19713-19722.	2.7	19

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37	Can the substrate of the diamond anodes influence on the performance of the electrosynthesis of oxidants?. Journal of Electroanalytical Chemistry, 2019, 850, 113416.	1.9	19
38	Scaling up Photoelectrocatalytic Reactors: A TiO2 Nanotube-Coated Disc Compound Reactor Effectively Degrades Acetaminophen. Water (Switzerland), 2019, 11, 2522.	1.2	19
39	Electrolysis with diamond anodes: Eventually, there are refractory species!. Chemosphere, 2018, 195, 771-776.	4.2	18
40	Removal of antibiotic resistant bacteria by electrolysis with diamond anodes: A pretreatment or a tertiary treatment?. Journal of Water Process Engineering, 2020, 38, 101557.	2.6	18
41	Influence of the supporting electrolyte on the removal of ionic liquids by electrolysis with diamond anodes. Catalysis Today, 2018, 313, 203-210.	2.2	17
42	A tube-in-tube membrane microreactor for tertiary treatment of urban wastewaters by photo-Fenton at neutral pH: A proof of concept. Chemosphere, 2021, 263, 128049.	4.2	17
43	Sono- and photoelectrocatalytic processes for the removal of ionic liquids based on the 1-butyl-3-methylimidazolium cation. Journal of Hazardous Materials, 2019, 372, 77-84.	6.5	16
44	Removal of algae from biological cultures: a challenge for electrocoagulation?. Journal of Chemical Technology and Biotechnology, 2016, 91, 82-87.	1.6	15
45	Innovative photoelectrochemical cell for the removal of CHCs from soil washing wastes. Separation and Purification Technology, 2020, 230, 115876.	3.9	13
46	Electrochemical Technologies to Decrease the Chemical Risk of Hospital Wastewater and Urine. Molecules, 2021, 26, 6813.	1.7	13
47	Disinfection of urines using an electro-ozonizer. Electrochimica Acta, 2021, 382, 138343.	2.6	12
48	Are we correctly targeting the research on disinfection of antibiotic-resistant bacteria (ARB)?. Journal of Cleaner Production, 2021, 320, 128865.	4.6	11
49	Electrocoagulation as a key technique in the integrated urban water cycle â€“ A case study in the centre of Spain. Urban Water Journal, 2017, 14, 650-654.	1.0	10
50	The integration of ZVI-dehalogenation and electrochemical oxidation for the treatment of complex effluents polluted with iodinated compounds. Journal of Environmental Chemical Engineering, 2022, 10, 107587.	3.3	4