Manuel A Rodrigo

List of Publications by Year
in descending order

536 papers	26,988 citations	7096 78 h-index	12272 133 g-index
546 all docs	546 docs citations	546 times ranked	13407 citing authors

#	Article	IF	Citations
1	Electrochemical advanced oxidation processes: today and tomorrow. A review. Environmental Science and Pollution Research, 2014, 21, 8336-8367.	5.3	1,521
2	Single and Coupled Electrochemical Processes and Reactors for the Abatement of Organic Water Pollutants: A Critical Review. Chemical Reviews, 2015, 115, 13362-13407.	47.7	1,273
3	Electrogeneration of Hydroxyl Radicals on Boron-Doped Diamond Electrodes. Journal of the Electrochemical Society, 2003, 150, D79.	2.9	821
4	Removal of residual anti-inflammatory and analgesic pharmaceuticals from aqueous systems by electrochemical advanced oxidation processes. A review. Chemical Engineering Journal, 2013, 228, 944-964.	12.7	448
5	New perspectives for Advanced Oxidation Processes. Journal of Environmental Management, 2017, 195, 93-99.	7.8	448
6	Electrochemically Assisted Remediation of Pesticides in Soils and Water: A Review. Chemical Reviews, 2014, 114, 8720-8745.	47.7	436
7	Oxidation of 4-Chlorophenol at Boron-Doped Diamond Electrode for Wastewater Treatment. Journal of the Electrochemical Society, 2001, 148, D60.	2.9	396
8	Electrochemical oxidation of phenolic wastes with boron-doped diamond anodes. Water Research, 2005, 39, 2687-2703.	11.3	354
9	Costs of the electrochemical oxidation of wastewaters: A comparison with ozonation and Fenton oxidation processes. Journal of Environmental Management, 2009, 90, 410-420.	7.8	330
10	Influence of the anode materials on the electrochemical oxidation efficiency. Application to oxidative degradation of the pharmaceutical amoxicillin. Chemical Engineering Journal, 2015, 262, 286-294.	12.7	317
11	Operation of a horizontal subsurface flow constructed wetland â€“ Microbial fuel cell treating wastewater under different organic loading rates. Water Research, 2013, 47, 6731-6738.	11.3	224
12	Production of electricity from the treatment of urban waste water using a microbial fuel cell. Journal of Power Sources, 2007, 169, 198-204.	7.8	217
13	Improved polybenzimidazole films for H3PO4-doped PBI-based high temperature PEMFC. Journal of Membrane Science, 2007, 306, 47-55.	8.2	211
14	Electrochemical Treatment of 4-Nitrophenol-Containing Aqueous Wastes Using Boron-Doped Diamond Anodes. Industrial & Engineering Chemistry Research, 2004, 43, 1944-1951.	3.7	208
15	Electrodissolution of Aluminum Electrodes in Electrocoagulation Processes. Industrial & Engineering Chemistry Research, 2005, 44, 4178-4185.	3.7	205
16	Coagulation and Electrocoagulation of Wastes Polluted with Dyes. Environmental Science & Technology, 2006, 40, 6418-6424.	10.0	198
17	Synthesis and characterisation of poly[2,2-(m-phenylene)-5,5-bibenzimidazole] as polymer electrolyte membrane for high temperature PEMFCs. Journal of Membrane Science, 2006, 280, 351-362.	8.2	197
18	Renewable energies driven electrochemical wastewater/soil decontamination technologies: A critical review of fundamental concepts and applications. Applied Catalysis B: Environmental, 2020, 270, 118857.	20.2	196

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19	Coagulation and electrocoagulation of oil-in-water emulsions. Journal of Hazardous Materials, 2008, 151, 44-51.	12.4	190
20	Synthesis of novel oxidants by electrochemical technology. Journal of Applied Electrochemistry, 2009, 39, 2143-2149.	2.9	190
21	Electrochemical Oxidation of Hydroquinone, Resorcinol, and Catechol on Boron-Doped Diamond Anodes. Environmental Science & Technology, 2005, 39, 7234-7239.	10.0	181
22	Study of the Electrocoagulation Process Using Aluminum and Iron Electrodes. Industrial & Engineering Chemistry Research, 2007, 46, 6189-6195.	3.7	178
23	Advanced oxidation processes for the treatment of olive-oil mills wastewater. Chemosphere, 2007, 67, 832-838.	8.2	167
24	Microbial fuel cell with an algae-assisted cathode: A preliminary assessment. Journal of Power Sources, 2013, 242, 638-645.	7.8	167
25	Study of the influence of the amount of PBIâ€“H3PO4 in the catalytic layer of a high temperature PEMFC. International Journal of Hydrogen Energy, 2010, 35, 1347-1355.	7.1	148
26	Electrochemical production of perchlorates using conductive diamond electrolyses. Chemical Engineering Journal, 2011, 166, 710-714.	12.7	148
27	Use of conductive-diamond electrochemical oxidation for wastewater treatment. Catalysis Today, 2010, 151, 173-177.	4.4	146
28	PBI-based polymer electrolyte membranes fuel cells. Electrochimica Acta, 2007, 52, 3910-3920.	5.2	143
29	Advanced oxidation processes for the treatment of wastes polluted with azoic dyes. Electrochimica Acta, 2006, 52, 325-331.	5.2	138
30	Electrochemical oxidation of several chlorophenols on diamond electrodes Part I. Reaction mechanism. Journal of Applied Electrochemistry, 2003, 33, 917-927.	2.9	134
31	Removal of nitrates from groundwater by electrocoagulation. Chemical Engineering Journal, 2011, 171, 1012-1017.	12.7	133
32	Short-term effects of temperature and COD in a microbial fuel cell. Applied Energy, 2013, 101, 213-217.	10.1	129
33	The pH as a key parameter in the choice between coagulation and electrocoagulation for the treatment of wastewaters. Journal of Hazardous Materials, 2009, 163, 158-164.	12.4	128
34	Removal of Procion Red MX-5B dye from wastewater by conductive-diamond electrochemical oxidation. Electrochimica Acta, 2018, 263, 1-7.	5.2	124
35	Three-dimensional model of a 50Âcm2 high temperature PEM fuel cell. Study of the flow channel geometry influence. International Journal of Hydrogen Energy, 2010, 35, 5510-5520.	7.1	123
36	Electrochemical denitrificacion with chlorides using DSA and BDD anodes. Chemical Engineering Journal, 2012, 184, 66-71.	12.7	123

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37	Electrochemical treatment of 2,4-dinitrophenol aqueous wastes using boron-doped diamond anodes. Electrochimica Acta, 2004, 49, 4641-4650.	5.2	122
38	Electrochemical Oxidation of Azoic Dyes with Conductive-Diamond Anodes. Industrial & Engineering Chemistry Research, 2006, 45, 3468-3473.	3.7	121
39	Influence of the Teflon loading in the gas diffusion layer of PBI-based PEM fuel cells. Journal of Applied Electrochemistry, 2008, 38, 793-802.	2.9	121
40	Electrochemical oxidation of several chlorophenols on diamond electrodes: Part II. Influence of waste characteristics and operating conditions. Journal of Applied Electrochemistry, 2004, 34, 87-94.	2.9	115
41	Electrochemical Synthesis of Peroxodiphosphate Using Boron-Doped Diamond Anodes. Journal of the Electrochemical Society, 2005, 152, D191.	2.9	114
42	Measurement of Mass-Transfer Coefficients by an Electrochemical Technique. Journal of Chemical Education, 2006, 83, 1204.	2.3	114
43	Electrochemical phosphates removal using iron and aluminium electrodes. Chemical Engineering Journal, 2011, 172, 137-143.	12.7	108
44	Electrokinetic remediation of soil polluted with insoluble organics using biological permeable reactive barriers: Effect of periodic polarity reversal and voltage gradient. Chemical Engineering Journal, 2016, 299, 30-36.	12.7	107
45	Electrochemical Oxidation of Aqueous Carboxylic Acid Wastes Using Diamond Thin-Film Electrodes. Industrial & Engineering Chemistry Research, 2003, 42, 956-962.	3.7	104
46	Electrochemical jet-cell for the in-situ generation of hydrogen peroxide. Electrochemistry Communications, 2016, 71, 65-68.	4.7	104
47	Electrochemical Oxidation of Aqueous Phenol Wastes Using Active and Nonactive Electrodes. Journal of the Electrochemical Society, 2002, 149, D118.	2.9	102
48	Oxidation of enrofloxacin with conductive-diamond electrochemical oxidation, ozonation and Fenton oxidation. A comparison. Water Research, 2009, 43, 2131-2138.	11.3	101
49	Electrochemical incineration of dyes using a boron-doped diamond anode. Journal of Chemical Technology and Biotechnology, 2007, 82, 575-581.	3.2	99
50	The use of a combined process of surfactant-aided soil washing and coagulation for PAH-contaminated soils treatment. Separation and Purification Technology, 2012, 88, 46-51.	7.9	97
51	Highlights during the development of electrochemical engineering. Chemical Engineering Research and Design, 2013, 91, 1998-2020.	5.6	97
52	Treatment of Fenton-refractory olive oil mill wastes by electrochemical oxidation with boron-doped diamond anodes. Journal of Chemical Technology and Biotechnology, 2006, 81, 1331-1337.	3.2	96
53	A novel titanium PBI-based composite membrane for high temperature PEMFCs. Journal of Membrane Science, 2011, 369, 105-111.	8.2	96
54	Lagooning microbial fuel cells: A first approach by coupling electricity-producing microorganisms and algae. Applied Energy, 2013, 110, 220-226.	10.1	96

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55	Electrochemical conversion/combustion of a model organic pollutant on BDD anode: Role of sp 3 /sp 2 ratio. Electrochemistry Communications, 2014, 47, 37-40.	4.7	96
56	Titanium composite PBI-based membranes for high temperature polymer electrolyte membrane fuel cells. Effect on titanium dioxide amount. RSC Advances, 2012, 2, 1547-1556.	3.6	94
57	Electrochemical Oxidation of Aqueous Phenol Wastes on Synthetic Diamond Thin-Film Electrodes. Industrial & Engineering Chemistry Research, 2002, 41, 4187-4194.	3.7	93
58	Understanding active chlorine species production using boron doped diamond films with lower and higher sp3/sp2 ratio. Electrochemistry Communications, 2015, 55, 34-38.	4.7	93
59	Electrochemical technologies for the regeneration of urban wastewaters. Electrochimica Acta, 2010, 55, 8160-8164.	5.2	91
60	Electrochemical disinfection of simulated ballast water on conductive diamond electrodes. Chemical Engineering Journal, 2013, 223, 516-523.	12.7	91
61	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.	12.4	91
62	Electrochemical degradation of the dimethyl phthalate ester on a fluoride-doped Ti/Î²-PbO2 anode. Chemosphere, 2014, 109, 187-194.	8.2	90
63	Break-up of oil-in-water emulsions by electrochemical techniques. Journal of Hazardous Materials, 2007, 145, 233-240.	12.4	89
64	Optimization of an integrated electrodisinfection/electrocoagulation process with Al bipolar electrodes for urban wastewater reclamation. Water Research, 2013, 47, 1741-1750.	11.3	88
65	Environmental applications of electrochemical technology. What is needed to enable full-scale applications?. Current Opinion in Electrochemistry, 2019, 16, 149-156.	4.8	87
66	Effect of the Current Intensity in the Electrochemical Oxidation of Aqueous Phenol Wastes at an Activated Carbon and Steel Anode. Industrial & Engineering Chemistry Research, 1999, 38, 3779-3785.	3.7	86
67	Electrochemical oxidation of alcohols and carboxylic acids with diamond anodes. Electrochimica Acta, 2008, 53, 2144-2153.	5.2	86
68	Electrochemical dosing of iron and aluminum in continuous processes: A key step to explain electro-coagulation processes. Separation and Purification Technology, 2012, 98, 102-108.	7.9	86
69	Electrochemical Oxidation of Polyhydroxybenzenes on Boron-Doped Diamond Anodes. Industrial & Engineering Chemistry Research, 2004, 43, 6629-6637.	3.7	85
70	Modeling of Wastewater Electro-oxidation Processes Part I. General Description and Application to Inactive Electrodes. Industrial & Engineering Chemistry Research, 2004, 43, 1915-1922.	3.7	85
71	Effect of the catalytic ink preparation method on the performance of high temperature polymer electrolyte membrane fuel cells. Journal of Power Sources, 2006, 157, 284-292.	7.8	85
72	Electrochemical treatment of the effluent of a fine chemical manufacturing plant. Journal of Hazardous Materials, 2006, 138, 173-181.	12.4	83

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73	Effect of the Operating Conditions on the Oxidation Mechanisms in Conductive-Diamond Electrolyses. Journal of the Electrochemical Society, 2007, 154, E37.	2.9	83
74	Electrocatalytic properties of diamond in the oxidation of a persistant pollutant. Applied Catalysis B: Environmental, 2009, 89, 645-650.	20.2	83
75	Influence of the supporting electrolyte on the electrolyses of dyes with conductive-diamond anodes. Chemical Engineering Journal, 2012, 184, 221-227.	12.7	82
76	Removal of herbicide glyphosate by conductive-diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2016, 188, 305-312.	20.2	82
77	Bacterialâ€“fungal interactions enhance power generation in microbial fuel cells and drive dye decolourisation by an ex situ and in situ electro-Fenton process. Bioresource Technology, 2013, 148, 39-46.	9.6	81
78	Effect of the cathode material on the removal of nitrates by electrolysis in non-chloride media. Journal of Hazardous Materials, 2012, 213-214, 478-484.	12.4	80
79	Improving the Efficiency of Carbon Cloth for the Electrogeneration of H₂O₂: Role of Polytetrafluoroethylene and Carbon Black Loading. Industrial & Engineering Chemistry Research, 2017, 56, 12588-12595.	3.7	80
80	Comparison of the Aluminum Speciation in Chemical and Electrochemical Dosing Processes. Industrial & Engineering Chemistry Research, 2006, 45, 8749-8756.	3.7	79
81	Use of carbon felt cathodes for the electrochemical reclamation of urban treated wastewaters. Applied Catalysis B: Environmental, 2015, 162, 252-259.	20.2	79
82	Adsorption equilibrium of phenol onto chemically modified activated carbon F400. Journal of Hazardous Materials, 2006, 131, 243-248.	12.4	78
83	Enhancement of the fuel cell performance of a high temperature proton exchange membrane fuel cell running with titanium composite polybenzimidazole-based membranes. Journal of Power Sources, 2011, 196, 8265-8271.	7.8	78
84	Performance of a Vapor-Fed Polybenzimidazole (PBI)-Based Direct Methanol Fuel Cell. Energy & Fuels, 2008, 22, 3335-3345.	5.1	76
85	Combined soil washing and CDEO for the removal of atrazine from soils. Journal of Hazardous Materials, 2015, 300, 129-134.	12.4	75
86	Preparation of biodiesel from Jatropha curcas L. oil produced by two-phase solvent extraction. Bioresource Technology, 2010, 101, 7025-7031.	9.6	74
87	Long-term testing of a high-temperature proton exchange membrane fuel cell short stack operated with improved polybenzimidazole-based composite membranes. Journal of Power Sources, 2015, 274, 177-185.	7.8	74
88	Biological permeable reactive barriers coupled with electrokinetic soil flushing for the treatment of diesel-polluted clay soil. Journal of Hazardous Materials, 2015, 283, 131-139.	12.4	74
89	Removal of sulfate from mining waters by electrocoagulation. Separation and Purification Technology, 2017, 182, 87-93.	7.9	73
90	Remediation of soils polluted with lindane using surfactant-aided soil washing and electrochemical oxidation. Journal of Hazardous Materials, 2017, 339, 232-238.	12.4	73

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91	Use of conductive-diamond electrochemical-oxidation for the disinfection of several actual treated wastewaters. Chemical Engineering Journal, 2012, 211-212, 463-469.	12.7	71
92	Electroremediation of a natural soil polluted with phenanthrene in a pilot plant. Journal of Hazardous Materials, 2014, 265, 142-150.	12.4	71
93	Study of the acclimation stage and of the effect of the biodegradability on the performance of a microbial fuel cell. Bioresource Technology, 2009, 100, 4704-4710.	9.6	70
94	Influence of mediated processes on the removal of Rhodamine with conductive-diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2015, 166-167, 454-459.	20.2	69
95	Study of the Catalytic Layer in Polybenzimidazoleâ€based High Temperature PEMFC: Effect of Platinum Content on the Carbon Support. Fuel Cells, 2010, 10, 312-319.	2.4	67
96	Removal of arsenic by iron and aluminium electrochemically assisted coagulation. Separation and Purification Technology, 2011, 79, 15-19.	7.9	67
97	Continuous Electrocoagulation of Synthetic Colloid-Polluted Wastes. Industrial & Engineering Chemistry Research, 2005, 44, 8171-8177.	3.7	66
98	Electrochemical oxidation of Acid Yellow 1 using diamond anode. Journal of Applied Electrochemistry, 2009, 39, 2285-2289.	2.9	65
99	Synergy of electrochemical oxidation using boron-doped diamond (BDD) electrodes and ozone (O3) in industrial wastewater treatment. Electrochemistry Communications, 2013, 27, 34-37.	4.7	65
100	Electrochemical degradation of an anionic surfactant on boron-doped diamond anodes. Journal of Hazardous Materials, 2008, 158, 430-437.	12.4	64
101	Study of flow channel geometry using current distribution measurement in a high temperature polymer electrolyte membrane fuel cell. Journal of Power Sources, 2011, 196, 4209-4217.	7.8	64
102	Effect of bipolar electrode material on the reclamation of urban wastewater by an integrated electrodisinfection/electrocoagulation process. Water Research, 2014, 53, 329-338.	11.3	64
103	The role of particle size on the conductive diamond electrochemical oxidation of soil-washing effluent polluted with atrazine. Electrochemistry Communications, 2015, 55, 26-29.	4.7	64
104	Effect of the nature of the supporting electrolyte on the treatment of soluble oils by electrocoagulation. Desalination, 2010, 255, 15-20.	8.2	62
105	Removal of nitrates by electrolysis in non-chloride media: Effect of the anode material. Separation and Purification Technology, 2011, 80, 592-599.	7.9	62
106	Treatment of ex-situ soil-washing fluids polluted with petroleum by anodic oxidation, photolysis, sonolysis and combined approaches. Chemical Engineering Journal, 2017, 310, 581-588.	12.7	61
107	Electrolytic and electro-irradiated technologies for the removal of chloramphenicol in synthetic urine with diamond anodes. Water Research, 2018, 128, 383-392.	11.3	61
108	Combination of bioremediation and electrokinetics for the in-situ treatment of diesel polluted soil: A comparison of strategies. Science of the Total Environment, 2015, 533, 307-316.	8.0	60

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109	Use of a combined electrocoagulationâ€“ozone process as a pre-treatment for industrial wastewater. Desalination, 2010, 250, 144-149.	8.2	59
110	Production of oxidants via electrolysis of carbonate solutions with conductive-diamond anodes. Chemical Engineering Journal, 2013, 230, 272-278.	12.7	59
111	Effect of pressure on the electrochemical generation of hydrogen peroxide in undivided cells on carbon felt electrodes. Electrochimica Acta, 2017, 248, 169-177.	5.2	59
112	Electrochemical treatment of diluted cyanide aqueous wastes. Journal of Chemical Technology and Biotechnology, 2005, 80, 565-573.	3.2	58
113	Degradation of caffeine by conductive diamond electrochemical oxidation. Chemosphere, 2013, 93, 1720-1725.	8.2	58
114	Multiphysics Implementation of Electrokinetic Remediation Models for Natural Soils and Porewaters. Electrochimica Acta, 2017, 225, 93-104.	5.2	58
115	A multi-layered view of chemical and biochemical engineering. Chemical Engineering Research and Design, 2020, 155, A133-A145.	5.6	58
116	Electrochemical treatment of the pollutants generated in an ink-manufacturing process. Journal of Hazardous Materials, 2007, 146, 552-557.	12.4	57
117	Coupling photo and sono technologies to improve efficiencies in conductive diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2014, 144, 121-128.	20.2	57
118	Electrochemical synthesis of peroxomonophosphate using boron-doped diamond anodes. Journal of Applied Electrochemistry, 2007, 38, 93-100.	2.9	56
119	Removal of sulfamethoxazole from waters and wastewaters by conductiveâ€diamond electrochemical oxidation. Journal of Chemical Technology and Biotechnology, 2012, 87, 1441-1449.	3.2	56
120	Coupling ultraviolet light and ultrasound irradiation with Conductive-Diamond Electrochemical Oxidation for the removal of progesterone. Electrochimica Acta, 2014, 140, 20-26.	5.2	56
121	Use of low current densities in electrolyses with conductive-diamond electrochemical â€" Oxidation to disinfect treated wastewaters for reuse. Electrochemistry Communications, 2011, 13, 1268-1270.	4.7	55
122	Scale-up on electrokinetic remediation: Engineering and technological parameters. Journal of Hazardous Materials, 2016, 315, 135-143.	12.4	55
123	Development of an innovative approach for low-impact wastewater treatment: A microfluidic flow-through electrochemical reactor. Chemical Engineering Journal, 2018, 351, 766-772.	12.7	55
124	On the applications of peroxodiphosphate produced by BDD-electrolyses. Chemical Engineering Journal, 2013, 233, 8-13.	12.7	54
125	The effect of the sp3/sp2 carbon ratio on the electrochemical oxidation of 2,4-D with p-Si BDD anodes. Electrochimica Acta, 2016, 187, 119-124.	5.2	54
126	Remediation of soils polluted with 2,4-D by electrokinetic soil flushing with facing rows of electrodes: A case study in a pilot plant. Chemical Engineering Journal, 2016, 285, 128-136.	12.7	54

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127	Effect of the electron-acceptors on the performance of a MFC. Bioresource Technology, 2010, 101, 7014-7018.	9.6	53
128	Influence of the fuel and dosage on the performance of double-compartment microbial fuel cells. Water Research, 2016, 99, 16-23.	11.3	53
129	Effect of the polarity reversal frequency in the electrokinetic-biological remediation of oxyfluorfen polluted soil. Chemosphere, 2017, 177, 120-127.	8.2	53
130	Reversible electrokinetic adsorption barriers for the removal of atrazine and oxyfluorfen from spiked soils. Journal of Hazardous Materials, 2017, 322, 413-420.	12.4	53
131	Scale-up of the electrokinetic fence technology for the removal of pesticides. Part II: Does size matter for removal of herbicides?. Chemosphere, 2017, 166, 549-555.	8.2	53
132	Modeling of Wastewater Electro-oxidation Processes Part II. Application to Active Electrodes. Industrial & Engineering Chemistry Research, 2004, 43, 1923-1931.	3.7	52
133	Selection of cheap electrodes for two-compartment microbial fuel cells. Journal of Electroanalytical Chemistry, 2017, 785, 235-240.	3.8	51
134	Treatment of real effluents from the pharmaceutical industry: A comparison between Fenton oxidation and conductive-diamond electro-oxidation. Journal of Environmental Management, 2017, 195, 216-223.	7.8	51
135	Influence of the characteristics of p-Si BDD anodes on the efficiency of peroxodiphosphate electrosynthesis process. Electrochemistry Communications, 2008, 10, 602-606.	4.7	50
136	The electrolytic treatment of synthetic urine using DSA electrodes. Journal of Electroanalytical Chemistry, 2015, 744, 62-68.	3.8	50
137	Characterization of light/dark cycle and long-term performance test in a photosynthetic microbial fuel cell. Fuel, 2015, 140, 209-216.	6.4	50
138	Towards the scale up of a pressurized-jet microfluidic flow-through reactor for cost-effective electro-generation of H2O2. Journal of Cleaner Production, 2019, 211, 1259-1267.	9.3	50
139	Solar-powered electrokinetic remediation for the treatment of soil polluted with the herbicide 2,4-D. Electrochimica Acta, 2016, 190, 371-377.	5.2	49
140	Treatment of actual effluents produced in the manufacturing of atrazine by a photo-electrolytic process. Chemosphere, 2017, 172, 185-192.	8.2	49
141	Electrochemical Degradation of a Real Pharmaceutical Effluent. Water, Air, and Soil Pollution, 2012, 223, 2685-2694.	2.4	48
142	Irradiation-assisted electrochemical processes for the removal of persistent organic pollutants from wastewater. Journal of Applied Electrochemistry, 2015, 45, 799-808.	2.9	48
143	Disinfection of urine by conductive-diamond electrochemical oxidation. Applied Catalysis B: Environmental, 2018, 229, 63-70.	20.2	48
144	Effect of electric field on the performance of soil electro-bioremediation with a periodic polarity reversal strategy. Chemosphere, 2016, 146, 300-307.	8.2	47

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145	The jet aerator as oxygen supplier for the electrochemical generation of H2O2. Electrochimica Acta, 2017, 246, 466-474.	5.2	47
146	Enhancing the removal of atrazine from soils by electrokinetic-assisted phytoremediation using ryegrass (Lolium perenne L.). Chemosphere, 2019, 232, 204-212.	8.2	47
147	Use of neurofuzzy networks to improve wastewater flow-rate forecasting. Environmental Modelling and Software, 2009, 24, 686-693.	4.5	46
148	A comparison between Conductive-Diamond Electrochemical Oxidation and other Advanced Oxidation Processes for the treatment of synthetic melanoidins. Journal of Hazardous Materials, 2009, 164, 120-125.	12.4	46
149	A wind-powered BDD electrochemical oxidation process for the removal of herbicides. Journal of Environmental Management, 2015, 158, 36-39.	7.8	46
150	Electrochemically assisted fences for the electroremediation of soils polluted with 2,4-D: A case study in a pilot plant. Separation and Purification Technology, 2015, 156, 234-241.	7.9	46
151	Influence of sludge age on the performance of MFC treating winery wastewater. Chemosphere, 2016, 151, 163-170.	8.2	46
152	Enhanced electrokinetic remediation of polluted soils by anolyte pH conditioning. Chemosphere, 2018, 199, 477-485.	8.2	46
153	Understanding the electrolytic generation of sulfate and chlorine oxidative species with different boron-doped diamond anodes. Journal of Electroanalytical Chemistry, 2020, 857, 113756.	3.8	46
154	Treatment of mining wastewater polluted with cyanide by coagulation processes: A mechanistic study. Separation and Purification Technology, 2020, 237, 116345.	7.9	46
155	Improving the biodegradability of hospital urines polluted with chloramphenicol by the application of electrochemical oxidation. Science of the Total Environment, 2020, 725, 138430.	8.0	46
156	Electrochemical synthesis of ferrate using boron doped diamond anodes. Electrochemistry Communications, 2007, 9, 2286-2290.	4.7	45
157	Ten steps modeling of electrolysis processes by using neural networks. Environmental Modelling and Software, 2010, 25, 74-81.	4.5	45
158	Promising TiOSO₄ Composite Polybenzimidazoleâ€Based Membranes for High Temperature PEMFCs. ChemSusChem, 2011, 4, 1489-1497.	6.8	45
159	Degradation of dye Procion Red MX-5B by electrolytic and electro-irradiated technologies using diamond electrodes. Chemosphere, 2018, 199, 445-452.	8.2	45
160	Isobaric Vaporâˆ’Liquid Equilibria of the Water + 2-Propanol System at 30, 60, and 100 kPa. Journal of Chemical & Engineering Data, 1996, 41, 608-611.	1.9	44
161	The neural networks based modeling of a polybenzimidazole-based polymer electrolyte membrane fuel cell: Effect of temperature. Journal of Power Sources, 2009, 192, 190-194.	7.8	44
162	Optimisation of the Microporous Layer for a Polybenzimidazoleâ€Based High Temperature PEMFC â€“ Effect of Carbon Content. Fuel Cells, 2010, 10, 770-777.	2.4	44

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163	Application of electrokinetic soil flushing to four herbicides: A comparison. Chemosphere, 2016, 153, 205-211.	8.2	44
164	Scale-up of the electrokinetic fence technology for the removal of pesticides. Part I: Some notes about the transport of inorganic species. Chemosphere, 2017, 166, 540-548.	8.2	44
165	Review of Anodic Catalysts for SO2 Depolarized Electrolysis for â€œGreen Hydrogenâ€•Production. Catalysts, 2019, 9, 63.	3.5	44
166	Electrochemical Oxidation of Wastewaters Polluted with Aromatics and Heterocyclic Compounds. Journal of the Electrochemical Society, 2007, 154, E165.	2.9	43
167	Removal of triclosan by conductiveâ€diamond electrolysis and sonoelectrolysis. Journal of Chemical Technology and Biotechnology, 2013, 88, 823-828.	3.2	43
168	A microfluidic flow-through electrochemical reactor for wastewater treatment: A proof-of-concept. Electrochemistry Communications, 2017, 82, 85-88.	4.7	43
169	Energy saving in the aeration process by fuzzy logic control. Water Science and Technology, 1998, 38, 209.	2.5	42
170	Reduction of aeration costs by tuning a multi-set point on/off controller: A case study. Control Engineering Practice, 2011, 19, 1231-1237.	5.5	42
171	Removal of phenanthrene from synthetic kaolin soils by electrokinetic soil flushing. Separation and Purification Technology, 2014, 132, 33-40.	7.9	42
172	Sono-electrocoagulation of wastewater polluted with Rhodamine 6G. Separation and Purification Technology, 2014, 135, 110-116.	7.9	42
173	Enhancement of high temperature PEMFC stability using catalysts based on Pt supported on SiC based materials. Applied Catalysis B: Environmental, 2016, 198, 516-524.	20.2	42
174	Energy recovery from winery wastewater using a dual chamber microbial fuel cell. Journal of Chemical Technology and Biotechnology, 2016, 91, 1802-1808.	3.2	42
175	Synergistic integration of sonochemical and electrochemical disinfection with DSA anodes. Chemosphere, 2016, 163, 562-568.	8.2	42
176	Use of conductive diamond photo-electrochemical oxidation for the removal of pesticide glyphosate. Separation and Purification Technology, 2016, 167, 127-135.	7.9	42
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