Enric Brillas

List of Publications by Year
in descending order

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		2802	4117
324	35,000	94	175
papers	citations	h-index	g-index

339	339	339	15699
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electro-Fenton Process and Related Electrochemical Technologies Based on Fentonâ€™s Reaction Chemistry. Chemical Reviews, 2009, 109, 6570-6631.	47.7	2,755
2	Decontamination of wastewaters containing synthetic organic dyes by electrochemical methods: A general review. Applied Catalysis B: Environmental, 2009, 87, 105-145.	20.2	1,863
3	Decontamination of wastewaters containing synthetic organic dyes by electrochemical methods. An updated review. Applied Catalysis B: Environmental, 2015, 166-167, 603-643.	20.2	1,687
4	Electrochemical advanced oxidation processes: A review on their application to synthetic and real wastewaters. Applied Catalysis B: Environmental, 2017, 202, 217-261.	20.2	1,579
5	Electrochemical advanced oxidation processes: today and tomorrow. A review. Environmental Science and Pollution Research, 2014, 21, 8336-8367.	5.3	1,521
6	Remediation of water pollution caused by pharmaceutical residues based on electrochemical separation and degradation technologies: A review. Environment International, 2012, 40, 212-229.	10.0	835
7	Applied photoelectrocatalysis on the degradation of organic pollutants in wastewaters. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 31, 1-35.	11.6	571
8	Mineralization of 2,4-D by advanced electrochemical oxidation processes. Water Research, 2000, 34, 2253-2262.	11.3	474
9	Electrochemical destruction of chlorophenoxy herbicides by anodic oxidation and electro-Fenton using a boron-doped diamond electrode. Electrochimica Acta, 2004, 49, 4487-4496.	5.2	383
10	Aniline mineralization by AOP's: anodic oxidation, photocatalysis, electro-Fenton and photoelectro-Fenton processes. Applied Catalysis B: Environmental, 1998, 16, 31-42.	20.2	374
11	Catalytic behavior of the Fe3+/Fe2+ system in the electro-Fenton degradation of the antimicrobial chlorophene. Applied Catalysis B: Environmental, 2007, 72, 382-394.	20.2	356
12	Aniline degradation by Electro-FentonÂ® and peroxi-coagulation processes using a flow reactor for wastewater treatment. Chemosphere, 2002, 47, 241-248.	8.2	325
13	Electrochemical Alternatives for Drinking Water Disinfection. Angewandte Chemie - International Edition, 2008, 47, 1998-2005.	13.8	318
14	Mineralization of paracetamol in aqueous medium by anodic oxidation with a boron-doped diamond electrode. Chemosphere, 2005, 58, 399-406.	8.2	293
15	A review on the photoelectro-Fenton process as efficient electrochemical advanced oxidation for wastewater remediation. Treatment with UV light, sunlight, and coupling with conventional and other photo-assisted advanced technologies. Chemosphere, 2020, 250, 126198.	8.2	287
16	Kinetics of oxidative degradation/mineralization pathways of the antibiotic tetracycline by the novel heterogeneous electro-Fenton process with solid catalyst chalcopyrite. Applied Catalysis B: Environmental, 2017, 209, 637-647.	20.2	278
17	Degradation of Herbicide 4-Chlorophenoxyacetic Acid by Advanced Electrochemical Oxidation Methods. Environmental Science & Technology, 2002, 36, 3030-3035.	10.0	262
18	Mineralization of the recalcitrant oxalic and oxamic acids by electrochemical advanced oxidation processes using a boron-doped diamond anode. Water Research, 2011, 45, 2975-2984.	11.3	250

#	Article	IF	Citations
19	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.	11.3	247
20	Electrochemical Destruction of Aniline and 4â€Chloroaniline for Wastewater Treatment Using a Carbonâ€PTFE â€‰Oâ€‰2â€‰â€â€‰Fedâ€‰Cathode. Journal of the Electrochemical Society, 1995, 142, 1733-1741.	2.9	244
21	Pyrite as a sustainable catalyst in electro-Fenton process for improving oxidation of sulfamethazine. Kinetics, mechanism and toxicity assessment. Water Research, 2016, 94, 52-61.	11.3	244
22	Electro-Fenton and photoelectro-Fenton degradation of indigo carmine in acidic aqueous medium. Applied Catalysis B: Environmental, 2006, 67, 93-104.	20.2	242
23	Removal of organic contaminants from secondary effluent by anodic oxidation with a boron-doped diamond anode as tertiary treatment. Journal of Hazardous Materials, 2015, 283, 551-557.	12.4	241
24	Benchmarking recent advances and innovative technology approaches of Fenton, photo-Fenton, electro-Fenton, and related processes: A review on the relevance of phenol as model molecule. Separation and Purification Technology, 2020, 237, 116337.	7.9	238
25	Unprecedented total mineralization of atrazine and cyanuric acid by anodic oxidation and electro-Fenton with a boron-doped diamond anode. Environmental Chemistry Letters, 2012, 10, 165-170.	16.2	231
26	Electro-Fenton degradation of antimicrobials triclosan and triclocarban. Electrochimica Acta, 2007, 52, 5493-5503.	5.2	219
27	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.	5.2	218
28	Degradation of tyrosol by a novel electro-Fenton process using pyrite as heterogeneous source of iron catalyst. Water Research, 2015, 74, 77-87.	11.3	202
29	Degradation of 4â€Chlorophenol by Anodic Oxidation, Electroâ€Fenton, Photoelectroâ€Fenton, and Peroxiâ€Coagulation Processes. Journal of the Electrochemical Society, 1998, 145, 759-765.	2.9	198
30	Mineralization of Acid Yellow 36azo dye by electro-Fenton and solar photoelectro-Fenton processes with a boron-doped diamond anode. Chemosphere, 2011, 82, 495-501.	8.2	196
31	Mineralization of the drug Î²-blocker atenolol by electro-Fenton and photoelectro-Fenton using an air-diffusion cathode for H2O2 electrogeneration combined with a carbon-felt cathode for Fe2+ regeneration. Applied Catalysis B: Environmental, 2010, 96, 361-369.	20.2	185
32	Electrochemical incineration of diclofenac in neutral aqueous medium by anodic oxidation using Pt and boron-doped diamond anodes. Chemosphere, 2010, 79, 605-612.	8.2	182
33	Degradation of the fluoroquinolone enrofloxacin by electrochemical advanced oxidation processes based on hydrogen peroxide electrogeneration. Electrochimica Acta, 2010, 55, 2101-2115.	5.2	178
34	Mineralization of aniline and 4-chlorophenol in acidic solution by ozonation catalyzed with Fe2+ and UVA light. Applied Catalysis B: Environmental, 2001, 29, 135-145.	20.2	176
35	Finding the best Fe2+/Cu2+ combination for the solar photoelectro-Fenton treatment of simulated wastewater containing the industrial textile dye Disperse Blue 3. Applied Catalysis B: Environmental, 2012, 115-116, 107-116.	20.2	174
36	Decolorization and mineralization of Sunset Yellow FCF azo dye by anodic oxidation, electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton processes. Applied Catalysis B: Environmental, 2013, 142-143, 877-890.	20.2	172

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37	Degradation of the antibiotic trimethoprim by electrochemical advanced oxidation processes using a carbon-PTFE air-diffusion cathode and a boron-doped diamond or platinum anode. Applied Catalysis B: Environmental, 2014, 160-161, 492-505.	20.2	169
38	2,4-Dichlorophenoxyacetic acid degradation by catalyzed ozonation: TiO2/UVA/O3 and Fe(II)/UVA/O3 systems. Applied Catalysis B: Environmental, 2000, 27, 169-177.	20.2	162
39	Catalytic effect of Fe2+, Cu2+and UVA light on the electrochemical degradation of nitrobenzene using an oxygen-diffusion cathode. New Journal of Chemistry, 2004, 28, 314-322.	2.8	162
40	Mineralization of paracetamol by ozonation catalyzed with Fe2+, Cu2+ and UVA light. Applied Catalysis B: Environmental, 2006, 66, 228-240.	20.2	162
41	Electrochemical Degradation of Paracetamol from Water by Catalytic Action of Fe[sup 2+], Cu[sup 2+], and UVA Light on Electrogenerated Hydrogen Peroxide. Journal of the Electrochemical Society, 2006, 153, D1.	2.9	162
42	Comparative depollution of mecoprop aqueous solutions by electrochemical incineration using BDD and PbO2 as high oxidation power anodes. Journal of Electroanalytical Chemistry, 2008, 613, 151-159.	3.8	160
43	Solar photoelectro-Fenton degradation of paracetamol using a flow plant with a Pt/air-diffusion cell coupled with a compound parabolic collector: Process optimization by response surface methodology. Applied Catalysis B: Environmental, 2011, 103, 21-30.	20.2	160
44	Electrochemical incineration of the antibiotic ciprofloxacin in sulfate medium and synthetic urine matrix. Water Research, 2015, 83, 31-41.	11.3	159
45	Magnetic MIL(Fe)-type MOF-derived N-doped nano-ZVI@C rods as heterogeneous catalyst for the electro-Fenton degradation of gemfibrozil in a complex aqueous matrix. Applied Catalysis B: Environmental, 2020, 266, 118604.	20.2	157
46	Solar photoelectro-Fenton degradation of cresols using a flow reactor with a boron-doped diamond anode. Applied Catalysis B: Environmental, 2007, 75, 17-28.	20.2	154
47	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.	8.2	153
48	Application of solar photoelectro-Fenton technology to azo dyes mineralization: Effect of current density, Fe2+ and dye concentrations. Chemical Engineering Journal, 2011, 171, 385-392.	12.7	153
49	Electrochemical mineralization of the antibiotic levofloxacin by electro-Fenton-pyrite process. Chemosphere, 2015, 141, 250-257.	8.2	149
50	Comparative electrochemical degradation of the triphenylmethane dye Methyl Violet with boron-doped diamond and Pt anodes. Journal of Electroanalytical Chemistry, 2009, 627, 41-50.	3.8	148
51	Electrochemical degradation of clofibric acid in water by anodic oxidation. Electrochimica Acta, 2006, 52, 75-85.	5.2	144
52	Anodic oxidation, electro-Fenton and photoelectro-Fenton treatments of 2,4,5-trichlorophenoxyacetic acid. Journal of Electroanalytical Chemistry, 2003, 557, 135-146.	3.8	143
53	Degradation of clofibric acid in acidic aqueous medium by electro-Fenton and photoelectro-Fenton. Chemosphere, 2007, 66, 1660-1669.	8.2	140
54	Electrochemical incineration of omeprazole in neutral aqueous medium using a platinum or boron-doped diamond anode: Degradation kinetics and oxidation products. Water Research, 2013, 47, 1803-1815.	11.3	139

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55	Mineralization of herbicide mecoprop by photoelectro-Fenton with UVA and solar light. Catalysis Today, 2007, 129, 29-36.	4.4	138
56	Degradation of Atrazine by Electrochemical Advanced Oxidation Processes Using a Boron-Doped Diamond Anode. Journal of Physical Chemistry A, 2010, 114, 6613-6621.	2.5	138
57	Two-step mineralization of Tartrazine solutions: Study of parameters and by-products during the coupling of electrocoagulation with electrochemical advanced oxidation processes. Applied Catalysis B: Environmental, 2014, 150-151, 116-125.	20.2	137
58	Mineralization of flumequine in acidic medium by electro-Fenton and photoelectro-Fenton processes. Water Research, 2012, 46, 2067-2076.	11.3	136
59	Red Organic Light-Emitting Radical Adducts of Carbazole and Tris(2,4,6-trichlorotriphenyl)methyl Radical That Exhibit High Thermal Stability and Electrochemical Amphotericity. Journal of Organic Chemistry, 2007, 72, 7523-7532.	3.2	134
60	Mineralization of the biocide chloroxylenol by electrochemical advanced oxidation processes. Chemosphere, 2008, 71, 1718-1729.	8.2	134
61	Degradation of the azo dye Acid Red 1 by anodic oxidation and indirect electrochemical processes based on Fenton's reaction chemistry. Relationship between decolorization, mineralization and products. Electrochimica Acta, 2014, 142, 276-288.	5.2	133
62	Electrochemical incineration of chloromethylphenoxy herbicides in acid medium by anodic oxidation with boron-doped diamond electrode. Electrochimica Acta, 2006, 51, 2872-2880.	5.2	130
63	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.	7.9	130
64	Electrochemical degradation of the dye indigo carmine at boron-doped diamond anode for wastewaters remediation. Environmental Chemistry Letters, 2006, 4, 229-233.	16.2	129
65	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.	20.2	125
66	Fuel cells for chemicals and energy cogeneration. Journal of Power Sources, 2006, 153, 47-60.	7.8	124
67	Fluidized-bed Fenton process as alternative wastewater treatment technologyâ€"A review. Journal of the Taiwan Institute of Chemical Engineers, 2016, 67, 211-225.	5.3	124
68	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.	7.8	123
69	Recent development of electrochemical advanced oxidation of herbicides. A review on its application to wastewater treatment and soil remediation. Journal of Cleaner Production, 2021, 290, 125841.	9.3	121
70	Optimization of electro-Fenton/BDD process for decolorization of a model azo dye wastewater by means of response surface methodology. Desalination, 2012, 286, 63-68.	8.2	120
71	Influence of the anode material on the degradation of naproxen by Fenton-based electrochemical processes. Chemical Engineering Journal, 2016, 304, 817-825.	12.7	120
72	Electrochemical oxidation of methyl orange azo dye at pilot flow plant using BDD technology. Journal of Industrial and Engineering Chemistry, 2013, 19, 571-579.	5.8	118

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73	A Highly Stable Metalâ€“Organic Framework-Engineered FeS₂/C Nanocatalyst for Heterogeneous Electro-Fenton Treatment: Validation in Wastewater at Mild pH. Environmental Science & Technology, 2020, 54, 4664-4674.	10.0	118
74	[4-(N-Carbazolyl)-2,6-dichlorophenyl]bis(2,4,6-trichlorophenyl)methyl radical an efficient red light-emitting paramagnetic molecule. Tetrahedron Letters, 2006, 47, 2305-2309.	1.4	116
75	Electrochemical incineration of cresols: A comparative study between PbO2 and boron-doped diamond anodes. Chemosphere, 2009, 74, 1340-1347.	8.2	115
76	Mineralization of the antibiotic chloramphenicol by solar photoelectro-Fenton. Applied Catalysis B: Environmental, 2014, 144, 588-598.	20.2	115
77	Tertiary treatment of a municipal wastewater toward pharmaceuticals removal by chemical and electrochemical advanced oxidation processes. Water Research, 2016, 105, 251-263.	11.3	115
78	Comparative decolorization of monoazo, diazo and triazo dyes by electro-Fenton process. Electrochimica Acta, 2011, 58, 303-311.	5.2	113
79	Mineralization of herbicide 3,6-dichloro-2-methoxybenzoic acid in aqueous medium by anodic oxidation, electro-Fenton and photoelectro-Fenton. Electrochimica Acta, 2003, 48, 1697-1705.	5.2	107
80	Electrochemical combustion of herbicide mecoprop in aqueous medium using a flow reactor with a boron-doped diamond anode. Chemosphere, 2006, 64, 892-902.	8.2	107
81	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.	5.3	105
82	Electrochemical degradation of 2,4,5-trichlorophenoxyacetic acid in aqueous medium by peroxi-coagulation. Effect of pH and UV light. Electrochimica Acta, 2003, 48, 781-790.	5.2	104
83	Electrochemical mineralization of the azo dye Acid Red 29 (Chromotrope 2R) by photoelectro-Fenton process. Chemosphere, 2012, 89, 751-758.	8.2	104
84	Electro-Fenton and solar photoelectro-Fenton treatments of the pharmaceutical ranitidine in pre-pilot flow plant scale. Separation and Purification Technology, 2015, 146, 127-135.	7.9	104
85	Incorporation of electrochemical advanced oxidation processes in a multistage treatment system for sanitary landfill leachate. Water Research, 2015, 81, 375-387.	11.3	103
86	Solar photoelectrocatalytic degradation of Acid Orange 7 azo dye using a highly stable TiO2 photoanode synthesized by atmospheric plasma spray. Applied Catalysis B: Environmental, 2013, 132-133, 142-150.	20.2	102
87	Degradation of acidic aqueous solutions of the diazo dye Congo Red by photo-assisted electrochemical processes based on Fentonâ€™s reaction chemistry. Applied Catalysis B: Environmental, 2015, 168-169, 559-571.	20.2	102
88	Evidence of Fenton-like reaction with active chlorine during the electrocatalytic oxidation of Acid Yellow 36 azo dye with Ir-Sn-Sb oxide anode in the presence of iron ion. Applied Catalysis B: Environmental, 2017, 206, 44-52.	20.2	102
89	Oxidation of enrofloxacin with conductive-diamond electrochemical oxidation, ozonation and Fenton oxidation. A comparison. Water Research, 2009, 43, 2131-2138.	11.3	101
90	On the selection of the anode material for the electrochemical removal of methylparaben from different aqueous media. Electrochimica Acta, 2016, 222, 1464-1474.	5.2	101

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91	Electrochemical degradation of chlorophenoxy and chlorobenzoic herbicides in acidic aqueous medium by the peroxi-coagulation method. Chemosphere, 2003, 51, 227-235.	8.2	98
92	Degradation of the herbicide 2,4-dichlorophenoxyacetic acid by ozonation catalyzed with Fe2+ and UVA light. Applied Catalysis B: Environmental, 2003, 46, 381-391.	20.2	97
93	Combustion of textile monoazo, diazo and triazo dyes by solar photoelectro-Fenton: Decolorization, kinetics and degradation routes. Applied Catalysis B: Environmental, 2016, 181, 681-691.	20.2	97
94	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.	5.2	96
95	Diradical Dications ofm- andp-Phenylenebis[2,5-di(2-thienyl)-1-pyrrole]:Â Weakly Coupled Diradicals. Journal of Organic Chemistry, 2001, 66, 4058-4061.	3.2	95
96	Solar photoelectro-Fenton treatment of a mixture of parabens spiked into secondary treated wastewater effluent at low input current. Applied Catalysis B: Environmental, 2018, 224, 410-418.	20.2	95
97	Degradation of disperse azo dyes from waters by solar photoelectro-Fenton. Electrochimica Acta, 2011, 56, 6371-6379.	5.2	93
98	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.	11.3	92
99	Comparative study of electrochemical water treatment processes for a tannery wastewater effluent. Journal of Electroanalytical Chemistry, 2014, 713, 62-69.	3.8	92
100	Solar photoelectro-Fenton degradation of the antibiotic metronidazole using a flow plant with a Pt/air-diffusion cell and a CPC photoreactor. Electrochimica Acta, 2015, 165, 173-181.	5.2	92
101	Degradation of 4,6-dinitro-o-cresol from water by anodic oxidation with a boron-doped diamond electrode. Electrochimica Acta, 2005, 50, 3685-3692.	5.2	91
102	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.	12.4	90
103	A critical review on ibuprofen removal from synthetic waters, natural waters, and real wastewaters by advanced oxidation processes. Chemosphere, 2022, 286, 131849.	8.2	89
104	Peroxiâ€coagulation of Aniline in Acidic Medium Using an Oxygen Diffusion Cathode. Journal of the Electrochemical Society, 1997, 144, 2374-2379.	2.9	88
105	Carbon-Supported Feâ€“N_x Catalysts Synthesized by Pyrolysis of the Fe(II)â€“2,3,5,6-Tetra(2-pyridyl)pyrazine Complex: Structure, Electrochemical Properties, and Oxygen Reduction Reaction Activity. Journal of Physical Chemistry C, 2011, 115, 12929-12940.	3.1	88
106	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.	12.4	88
107	Electrocatalytic properties of diamond in the oxidation of a persistant pollutant. Applied Catalysis B: Environmental, 2009, 89, 645-650.	20.2	83
108	Electrochemical reduction and oxidation pathways for Reactive Black 5 dye using nickel electrodes in divided and undivided cells. Electrochimica Acta, 2012, 59, 140-149.	5.2	82

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109	Treatment of a mixture of food color additives (E122, E124 and E129) in different water matrices by UVA and solar photoelectro-Fenton. Water Research, 2015, 81, 178-187.	11.3	82
110	Treatment of antibiotic cephalexin by heterogeneous electrochemical Fenton-based processes using chalcopyrite as sustainable catalyst. Science of the Total Environment, 2020, 740, 140154.	8.0	81
111	Comparative degradation of the diazo dye Direct Yellow 4 by electro-Fenton, photoelectro-Fenton and photo-assisted electro-Fenton. Journal of Electroanalytical Chemistry, 2012, 681, 36-43.	3.8	80
112	Decolorization and mineralization of Allura Red AC aqueous solutions by electrochemical advanced oxidation processes. Journal of Hazardous Materials, 2015, 290, 34-42.	12.4	80
113	Electrochemical reactivity of Ponceau 4R (food additive E124) in different electrolytes and batch cells. Electrochimica Acta, 2015, 173, 523-533.	5.2	79
114	Degradation of trimethoprim antibiotic by UVA photoelectro-Fenton process mediated by Fe(III)â€“carboxylate complexes. Applied Catalysis B: Environmental, 2015, 162, 34-44.	20.2	79
115	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.	20.2	79
116	Effect of electrogenerated hydroxyl radicals, active chlorine and organic matter on the electrochemical inactivation of Pseudomonas aeruginosa using BDD and dimensionally stable anodes. Separation and Purification Technology, 2017, 178, 224-231.	7.9	79
117	Application of electrochemical advanced oxidation to bisphenol A degradation in water. Effect of sulfate and chloride ions. Chemosphere, 2018, 194, 812-820.	8.2	79
118	Electrochemical removal of gallic acid from aqueous solutions. Electrochimica Acta, 2006, 52, 256-262.	5.2	78
119	Chitosan-Derived Nitrogen-Doped Carbon Electrocatalyst for a Sustainable Upgrade of Oxygen Reduction to Hydrogen Peroxide in UV-Assisted Electro-Fenton Water Treatment. ACS Sustainable Chemistry and Engineering, 2020, 8, 14425-14440.	6.7	78
120	Electrochemical advanced oxidation for cold incineration of the pharmaceutical ranitidine: Mineralization pathway and toxicity evolution. Chemosphere, 2014, 117, 644-651.	8.2	77
121	Electrochemical Fenton-based treatment of tetracaine in synthetic and urban wastewater using active and non-active anodes. Water Research, 2018, 128, 71-81.	11.3	77
122	A critical review over the electrochemical disinfection of bacteria in synthetic and real wastewaters using a boron-doped diamond anode. Current Opinion in Solid State and Materials Science, 2021, 25, 100926.	11.5	76
123	A small-scale flow alkaline fuel cell for on-site production of hydrogen peroxide. Electrochimica Acta, 2002, 48, 331-340.	5.2	74
124	Solar photoelectro-Fenton degradation of the herbicide 4-chloro-2-methylphenoxyacetic acid optimized by response surface methodology. Journal of Hazardous Materials, 2011, 194, 109-118.	12.4	74
125	Salicylic acid degradation by advanced oxidation processes. Coupling of solar photoelectro-Fenton and solar heterogeneous photocatalysis. Journal of Hazardous Materials, 2016, 319, 34-42.	12.4	74
126	Comparative electrochemical treatments of two chlorinated aliphatic hydrocarbons. Time course of the main reaction by-products. Journal of Hazardous Materials, 2011, 192, 1555-1564.	12.4	73

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127	Advances in solar photoelectro-Fenton: Decolorization and mineralization of the Direct Yellow 4 diazo dye using an autonomous solar pre-pilot plant. Electrochimica Acta, 2014, 140, 384-395.	5.2	73
128	Electro-Fenton process at mild pH using Fe(III)-EDDS as soluble catalyst and carbon felt as cathode. Applied Catalysis B: Environmental, 2019, 257, 117907.	20.2	73
129	Enhanced electrocatalytic production of H2O2 at Co-based air-diffusion cathodes for the photoelectro-Fenton treatment of bronopol. Applied Catalysis B: Environmental, 2019, 247, 191-199.	20.2	73
130	Mechanism and stability of an Fe-based 2D MOF during the photoelectro-Fenton treatment of organic micropollutants under UVA and visible light irradiation. Water Research, 2020, 184, 115986.	11.3	73
131	Electrochemical removal of pharmaceuticals from water streams: Reactivity elucidation by mass spectrometry. TrAC - Trends in Analytical Chemistry, 2015, 70, 112-121.	11.4	72
132	Application of anodic oxidation, electro-Fenton and UVA photoelectro-Fenton to decolorize and mineralize acidic solutions of Reactive Yellow 160 azo dye. Electrochimica Acta, 2016, 206, 307-316.	5.2	72
133	Decolorization and mineralization of Allura Red AC azo dye by solar photoelectro-Fenton: Identification of intermediates. Chemosphere, 2015, 136, 1-8.	8.2	71
134	Solar photoelectro-Fenton flow plant modeling for the degradation of the antibiotic erythromycin in sulfate medium. Electrochimica Acta, 2017, 228, 45-56.	5.2	71
135	Degradation of 2,4-Dichlorophenoxyacetic Acid by Electro-oxidation and Electro-Fenton/BDD Processes Using a Pre-pilot Plant. Electrocatalysis, 2013, 4, 224-234.	3.0	70
136	Coupling of solar photoelectro-Fenton with a BDD anode and solar heterogeneous photocatalysis for the mineralization of the herbicide atrazine. Chemosphere, 2014, 97, 26-33.	8.2	70
137	Influence of atmospheric plasma spraying on the solar photoelectro-catalytic properties of TiO2 coatings. Applied Catalysis B: Environmental, 2016, 189, 151-159.	20.2	70
138	Enhanced degradation of the antibiotic tetracycline by heterogeneous electro-Fenton with pyrite catalysis. Environmental Chemistry Letters, 2017, 15, 689-693.	16.2	70
139	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.	12.7	69
140	Fenton, photo-Fenton, electro-Fenton, and their combined treatments for the removal of insecticides from waters and soils. A review. Separation and Purification Technology, 2022, 284, 120290.	7.9	69
141	Remediation of a winery wastewater combining aerobic biological oxidation and electrochemical advanced oxidation processes. Water Research, 2015, 75, 95-108.	11.3	68
142	Degradation of Evans Blue diazo dye by electrochemical processes based on Fentonâ€™s reaction chemistry. Journal of Electroanalytical Chemistry, 2015, 747, 1-11.	3.8	66
143	Electrochemical advanced oxidation processes for sanitary landfill leachate remediation: Evaluation of operational variables. Applied Catalysis B: Environmental, 2016, 182, 161-171.	20.2	66
144	Taking Advantage of the Radical Character of Tris(2,4,6-trichlorophenyl)methyl To Synthesize New Paramagnetic Glassy Molecular Materials. Journal of Organic Chemistry, 2008, 73, 3759-3767.	3.2	65

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145	Removal of the herbicide amitrole from water by anodic oxidation and electro-Fenton. Environmental Chemistry Letters, 2005, 3, 7-11.	16.2	64
146	Application of electrochemical advanced oxidation processes to the mineralization of the herbicide diuron. Chemosphere, 2014, 109, 49-55.	8.2	64
147	Treatment of single and mixed pesticide formulations by solar photoelectro-Fenton using a flow plant. Chemical Engineering Journal, 2017, 310, 503-513.	12.7	64
148	Comparative electrochemical oxidation of methyl orange azo dye using Ti/Ir-Pb, Ti/Ir-Sn, Ti/Ru-Pb, Ti/Pt-Pd and Ti/RuO 2 anodes. Electrochimica Acta, 2017, 244, 199-208.	5.2	64
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