

Javier Llanos

List of Publications by Year in descending order

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91
papers

2,821
citations

126708

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197535

49
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93
all docs

93
docs citations

93
times ranked

2248
citing authors

#	ARTICLE	IF	CITATIONS
1	Adapting the low-cost pre-disinfection column PREDICO for simultaneous softening and disinfection of pore water. <i>Chemosphere</i> , 2022, 287, 132334.	4.2	1
2	Toward real applicability of electro-ozonizers: Paying attention to the gas phase using actual commercial PEM electrolyzers technology. <i>Chemosphere</i> , 2022, 289, 133141.	4.2	8
3	Understanding ozone generation in electrochemical cells at mild pHs. <i>Electrochimica Acta</i> , 2021, 376, 138033.	2.6	27
4	A review on the electrochemical production of chlorine dioxide from chlorates and hydrogen peroxide. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100685.	2.5	18
5	New insights about the electrochemical production of ozone. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100697.	2.5	28
6	Electrochemical generation of ozone using a PEM electrolyzer at acidic pHs. <i>Separation and Purification Technology</i> , 2021, 267, 118672.	3.9	21
7	On the production of ozone, hydrogen peroxide and peroxone in pressurized undivided electrochemical cells. <i>Electrochimica Acta</i> , 2021, 390, 138878.	2.6	13
8	Game-Based Learning and Just-in-Time Teaching to Address Misconceptions and Improve Safety and Learning in Laboratory Activities. <i>Journal of Chemical Education</i> , 2021, 98, 3118-3130.	1.1	9
9	An Old Technique with A Promising Future: Recent Advances in the Use of Electrodeposition for Metal Recovery. <i>Molecules</i> , 2021, 26, 5525.	1.7	3
10	Is ozone production able to explain the good performance of CabECOÂ® technology in wastewater treatment?. <i>Electrochimica Acta</i> , 2021, 396, 139262.	2.6	6
11	Valorization of high-salinity effluents for CO2 fixation and hypochlorite generation. <i>Chemosphere</i> , 2021, 285, 131359.	4.2	3
12	Degradation of Neonicotinoids and Caffeine from Surface Water by Photolysis. <i>Molecules</i> , 2021, 26, 7277.	1.7	3
13	A comparison between flow-through cathode and mixed tank cells for the electro-Fenton process with conductive diamond anode. <i>Chemosphere</i> , 2020, 238, 124854.	4.2	19
14	Scaling-up an integrated electrodisinfection-electrocoagulation process for wastewater reclamation. <i>Chemical Engineering Journal</i> , 2020, 380, 122415.	6.6	39
15	Improved electrolysis of colloid-polluted wastes using ultrasounds and electrocoagulation. <i>Separation and Purification Technology</i> , 2020, 231, 115926.	3.9	20
16	Is it worth using the coupled electrodialysis/electro-oxidation system for the removal of pesticides? Process modelling and role of the pollutant. <i>Chemosphere</i> , 2020, 246, 125781.	4.2	10
17	Performance of ultrafiltration as a pre-concentration stage for the treatment of oxyfluorfen by electrochemical BDD oxidation. <i>Separation and Purification Technology</i> , 2020, 237, 116366.	3.9	13
18	Electro-disinfection with BDD-electrodes featuring PEM technology. <i>Separation and Purification Technology</i> , 2020, 248, 117081.	3.9	28

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19	How to avoid the formation of hazardous chlorates and perchlorates during electro-disinfection with diamond anodes?. <i>Journal of Environmental Management</i> , 2020, 265, 110566.	3.8	11
20	Electrochemically assisted dewatering for the removal of oxyfluorfen from a coagulation/flocculation sludge. <i>Journal of Environmental Management</i> , 2020, 258, 110015.	3.8	4
21	Testing the use of cells equipped with solid polymer electrolytes for electro-disinfection. <i>Science of the Total Environment</i> , 2020, 725, 138379.	3.9	26
22	Operating the CabECOÂ® membrane electrolytic technology in continuous mode for the direct disinfection of highly fecal-polluted water. <i>Separation and Purification Technology</i> , 2019, 208, 110-115.	3.9	30
23	Development of a novel electrochemical coagulant dosing unit for water treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 216-221.	1.6	7
24	Combined electrochemical processes for the efficient degradation of non-polar organochlorine pesticides. <i>Journal of Environmental Management</i> , 2019, 248, 109289.	3.8	21
25	Can the substrate of the diamond anodes influence on the performance of the electrosynthesis of oxidants?. <i>Journal of Electroanalytical Chemistry</i> , 2019, 850, 113416.	1.9	19
26	Towards the scale up of a pressurized-jet microfluidic flow-through reactor for cost-effective electro-generation of H ₂ O ₂ . <i>Journal of Cleaner Production</i> , 2019, 211, 1259-1267.	4.6	50
27	Reactor design as a critical input in the electrochemical production of peroxyacetic acid. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2955-2960.	1.6	6
28	Enhancing the Teaching of Corrosion to Chemical-Engineering Students through Laboratory Experiments. <i>Journal of Chemical Education</i> , 2019, 96, 1029-1032.	1.1	2
29	Electrochemical production of perchlorate as an alternative for the valorization of brines. <i>Chemosphere</i> , 2019, 220, 637-643.	4.2	9
30	On the design of a jet-aerated microfluidic flow-through reactor for wastewater treatment by electro-Fenton. <i>Separation and Purification Technology</i> , 2019, 208, 123-129.	3.9	40
31	The pressurized jet aerator: A new aeration system for high-performance H ₂ O ₂ electrolyzers. <i>Electrochemistry Communications</i> , 2018, 89, 19-22.	2.3	35
32	Effect of air pressure on the electro-Fenton process at carbon felt electrodes. <i>Electrochimica Acta</i> , 2018, 273, 447-453.	2.6	36
33	Removal of Procion Red MX-5B dye from wastewater by conductive-diamond electrochemical oxidation. <i>Electrochimica Acta</i> , 2018, 263, 1-7.	2.6	124
34	Exploring the applicability of a combined electrodialysis/electro-oxidation cell for the degradation of 2,4-dichlorophenoxyacetic acid. <i>Electrochimica Acta</i> , 2018, 269, 415-421.	2.6	30
35	Hydrogen from electrochemical reforming of ethanol assisted by sulfuric acid addition. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 310-316.	10.8	32
36	Optimization of a cell for the electrochemical synergistic production of peroxyacetic acid. <i>Electrochimica Acta</i> , 2018, 260, 177-183.	2.6	7

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37	Can CabECOÂ® technology be used for the disinfection of highly faecal-polluted surface water?. Chemosphere, 2018, 209, 346-352.	4.2	30
38	Development of an innovative approach for low-impact wastewater treatment: A microfluidic flow-through electrochemical reactor. Chemical Engineering Journal, 2018, 351, 766-772.	6.6	55
39	Pre-disinfection columns to improve the performance of the direct electro-disinfection of highly faecal-polluted surface water. Journal of Environmental Management, 2018, 222, 135-140.	3.8	12
40	Use of process simulator to enhance the teaching&learning process of flow of fluids for engineering students. Computer Applications in Engineering Education, 2018, 26, 980-993.	2.2	8
41	ENHANCEMENT IN THE ACQUISITION OF THE SUSTAINABILITY KEY COMPETENCE THROUGHOUT THE WHOLE DEGREE OF CHEMICAL ENGINEERING. EDULEARN Proceedings, 2018, , .	0.0	0
42	Electrocoagulation as the Key for an Efficient Concentration and Removal of Oxyfluorfen from Liquid Wastes. Industrial & Engineering Chemistry Research, 2017, 56, 3091-3097.	1.8	24
43	Improving the Efficiency of Carbon Cloth for the Electrogeneration of H ₂ O ₂ : Role of Polytetrafluoroethylene and Carbon Black Loading. Industrial & Engineering Chemistry Research, 2017, 56, 12588-12595.	1.8	80
44	Effect of pressure on the electrochemical generation of hydrogen peroxide in undivided cells on carbon felt electrodes. Electrochimica Acta, 2017, 248, 169-177.	2.6	59
45	A microfluidic flow-through electrochemical reactor for wastewater treatment: A proof-of-concept. Electrochemistry Communications, 2017, 82, 85-88.	2.3	43
46	The jet aerator as oxygen supplier for the electrochemical generation of H ₂ O ₂ . Electrochimica Acta, 2017, 246, 466-474.	2.6	47
47	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.	3.8	51
48	Electrocoagulation as a key technique in the integrated urban water cycle “ A case study in the centre of Spain. Urban Water Journal, 2017, 14, 650-654.	1.0	10
49	Novel integrated electrodialysis/electro-oxidation process for the efficient degradation of 2,4-dichlorophenoxyacetic acid. Chemosphere, 2017, 182, 85-89.	4.2	37
50	Electrochemical jet-cell for the in-situ generation of hydrogen peroxide. Electrochemistry Communications, 2016, 71, 65-68.	2.3	104
51	Synergistic integration of sonochemical and electrochemical disinfection with DSA anodes. Chemosphere, 2016, 163, 562-568.	4.2	42
52	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
53	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
54	Integration of anodic and cathodic processes for the synergistic electrochemical production of peracetic acid. Electrochemistry Communications, 2016, 73, 1-4.	2.3	13

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55	Solar-powered electrokinetic remediation for the treatment of soil polluted with the herbicide 2,4-D. <i>Electrochimica Acta</i> , 2016, 190, 371-377.	2.6	49
56	Performance of wind-powered soil electroremediation process for the removal of 2,4-D from soil. <i>Journal of Environmental Management</i> , 2016, 171, 128-132.	3.8	16
57	Electrolytic and electro-irradiated processes with diamond anodes for the oxidation of persistent pollutants and disinfection of urban treated wastewater. <i>Journal of Hazardous Materials</i> , 2016, 319, 93-101.	6.5	91
58	HOW DID WE FACE THE ACCREDITATION PROCESS FOR THE FIRST TIME AND WHAT DID WE LEARN? THE CHE PROGRAMS AT THE UCLM. , 2016, , .		0
59	ECONOMIC FEASIBILITY STUDY AND ENVIRONMENTAL IMPACT ASSESSMENT OF PHASE CHANGE MATERIALS INCORPORATION IN BUILDINGS. , 2016, , .		0
60	A wind-powered BDD electrochemical oxidation process for the removal of herbicides. <i>Journal of Environmental Management</i> , 2015, 158, 36-39.	3.8	46
61	Solar-powered CDEO for the treatment of wastewater polluted with the herbicide 2,4-D. <i>Chemical Engineering Journal</i> , 2015, 277, 64-69.	6.6	27
62	Irradiation-assisted electrochemical processes for the removal of persistent organic pollutants from wastewater. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 799-808.	1.5	48
63	Physicalâ€“Chemical Characterization of Fruit Purees and Relationship with Sensory Analysis Carried out by Infants (12 to 24 mo). <i>Journal of Food Science</i> , 2015, 80, E1005-11.	1.5	5
64	Conductive diamond sono-electrochemical disinfection (CDSED) for municipal wastewater reclamation. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 493-498.	3.8	27
65	Use of carbon felt cathodes for the electrochemical reclamation of urban treated wastewaters. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 252-259.	10.8	79
66	Effect of bipolar electrode material on the reclamation of urban wastewater by an integrated electrodisinfection/electrocoagulation process. <i>Water Research</i> , 2014, 53, 329-338.	5.3	64
67	Analysis of photocurrent and capacitance of TiO ₂ nanotubeâ€“polyaniline hybrid composites synthesized through electroreduction of an aryl diazonium salt. <i>RSC Advances</i> , 2014, 4, 23957-23965.	1.7	19
68	Coupling UV irradiation and electrocoagulation for reclamation of urban wastewater. <i>Electrochimica Acta</i> , 2014, 140, 396-403.	2.6	34
69	Novel electrodialysisâ€“electrochlorination integrated process for the reclamation of treated wastewaters. <i>Separation and Purification Technology</i> , 2014, 132, 362-369.	3.9	29
70	Optimization of an integrated electrodisinfection/electrocoagulation process with Al bipolar electrodes for urban wastewater reclamation. <i>Water Research</i> , 2013, 47, 1741-1750.	5.3	88
71	The Treatment of Actual Industrial Wastewaters Using Electrochemical Techniques. <i>Electrocatalysis</i> , 2013, 4, 252-258.	1.5	19
72	On the applications of peroxodiphosphate produced by BDD-electrolyses. <i>Chemical Engineering Journal</i> , 2013, 233, 8-13.	6.6	54

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73	Treatment of Cu/Zn wastes by combined PSUâ€™electrodeposition processes. <i>Journal of Environmental Management</i> , 2013, 116, 181-185.	3.8	3
74	Neuro-evolutionary modelling of the electrodeposition stage of a polymer-supported ultrafiltrationâ€™electrodeposition process for the recovery of heavy metals. <i>Environmental Modelling and Software</i> , 2013, 42, 133-142.	1.9	7
75	Effect of the cathode material on the removal of nitrates by electrolysis in non-chloride media. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 478-484.	6.5	80
76	Electrochemical denitrification with chlorides using DSA and BDD anodes. <i>Chemical Engineering Journal</i> , 2012, 184, 66-71.	6.6	123
77	Cationâ€™exchange membranes: Comparison of homopolymer, block copolymer, and heterogeneous membranes. <i>Journal of Applied Polymer Science</i> , 2012, 124, E66.	1.3	16
78	Arsenic removal from drinking water through a hybrid ion exchange membrane â€™Coagulation process. <i>Separation and Purification Technology</i> , 2011, 83, 137-143.	3.9	66
79	Costs estimation of an integrated process for the treatment of heavy-metal loaded aqueous effluents. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 1099-1107.	1.5	13
80	Removal of nitrates by electrolysis in non-chloride media: Effect of the anode material. <i>Separation and Purification Technology</i> , 2011, 80, 592-599.	3.9	62
81	Treatment of copper (II)-loaded aqueous nitrate solutions by polymer enhanced ultrafiltration and electrodeposition. <i>Separation and Purification Technology</i> , 2010, 70, 320-328.	3.9	62
82	Polymer supported ultrafiltration as a technique for selective heavy metal separation and complex formation constants prediction. <i>Separation and Purification Technology</i> , 2010, 73, 126-134.	3.9	28
83	Characterization of a ceramic ultrafiltration membrane in different operational states after its use in a heavy-metal ion removal process. <i>Water Research</i> , 2010, 44, 3522-3530.	5.3	47
84	Water-soluble polymer ultrafiltration process at pilot scale: Study of hydrodynamics and factors limiting flux. <i>Journal of Membrane Science</i> , 2009, 341, 37-45.	4.1	17
85	Electrochemical regeneration of partially ethoxylated polyethylenimine used in the polymer-supported ultrafiltration of copper. <i>Journal of Hazardous Materials</i> , 2009, 168, 25-30.	6.5	11
86	Copper recovery by polymer enhanced ultrafiltration (PEUF) and electrochemical regeneration. <i>Journal of Membrane Science</i> , 2008, 323, 28-36.	4.1	40
87	Preliminary design and optimisation of a PEUF process for Cr(VI) removal. <i>Desalination</i> , 2008, 223, 229-237.	4.0	29
88	Removal of polyether-polyols by means of ultrafiltration. <i>Desalination</i> , 2007, 206, 594-601.	4.0	2
89	Selective separation of Pb from hard water by a semi-continuous polymer-enhanced ultrafiltration process (PEUF). <i>Desalination</i> , 2007, 206, 602-613.	4.0	38
90	Tannic acid removal from aqueous effluents using micellar enhanced ultrafiltration at pilot scale. <i>Desalination</i> , 2006, 200, 310-312.	4.0	17

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91	Remarkable hydrodechlorination activity over silica supported nickel/gold catalysts. Catalysis Communications, 2005, 6, 555-562.	1.6	29