

Juan L Acero

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

4,913
citations

43
h-index

67
g-index

103
ext. papers

5,307
ext. citations

7.3
avg, IF

5.46
L-index

#	Paper	IF	Citations
103	Membrane filtration, activated sludge and solar photocatalytic technologies for the effective treatment of table olive processing wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105743	6.8	2
102	Degradation of neonicotinoids by UV irradiation: Kinetics and effect of real water constituents. <i>Separation and Purification Technology</i> , 2019 , 211, 218-226	8.3	28
101	Degradation of selected emerging contaminants by UV-activated persulfate: Kinetics and influence of matrix constituents. <i>Separation and Purification Technology</i> , 2018 , 201, 41-50	8.3	43
100	Adsorption of selected emerging contaminants onto PAC and GAC: Equilibrium isotherms, kinetics, and effect of the water matrix. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017 , 52, 727-734	2.3	11
99	Removal of emerging contaminants from secondary effluents by micellar-enhanced ultrafiltration. <i>Separation and Purification Technology</i> , 2017 , 181, 123-131	8.3	41
98	Assessment of the UV/Cl advanced oxidation process for the degradation of the emerging contaminants amitriptyline hydrochloride, methyl salicylate and 2-phenoxyethanol in water systems. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 2508-2516	2.6	10
97	Micropollutants removal from retentates generated in ultrafiltration and nanofiltration treatments of municipal secondary effluents by means of coagulation, oxidation, and adsorption processes. <i>Chemical Engineering Journal</i> , 2016 , 289, 48-58	14.7	67
96	Influence of membrane, pH and water matrix properties on the retention of emerging contaminants by ultrafiltration and nanofiltration. <i>Desalination and Water Treatment</i> , 2016 , 57, 11685-11698		3
95	Oxidation of the emerging contaminants amitriptyline hydrochloride, methyl salicylate and 2-phenoxyethanol by persulfate activated by UV irradiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1004-1011	3.5	14
94	Investigating PPCP Removal from Wastewater by Powdered Activated Carbon/Ultrafiltration. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	46
93	Elimination of Selected Emerging Contaminants by the Combination of Membrane Filtration and Chemical Oxidation Processes. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	35
92	Ozonation of benzotriazole and methylindole: Kinetic modeling, identification of intermediates and reaction mechanisms. <i>Journal of Hazardous Materials</i> , 2015 , 282, 224-32	12.8	26
91	Comparison between chlorination and ozonation treatments for the elimination of the emerging contaminants amitriptyline hydrochloride, methyl salicylate and 2-phenoxyethanol in surface waters and secondary effluents. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1400-1407	3.5	8
90	Determination of the Reaction Rate Constants and Decomposition Mechanisms of Ozone with Two Model Emerging Contaminants: DEET and Nortriptyline. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17064-17073	3.9	18
89	Photolysis of model emerging contaminants in ultra-pure water: kinetics, by-products formation and degradation pathways. <i>Water Research</i> , 2013 , 47, 870-80	12.5	68
88	Oxidation of chlorophene by ozonation: Kinetics, identification of by-products and reaction pathways. <i>Chemical Engineering Journal</i> , 2013 , 230, 447-455	14.7	17
87	Chlorination and bromination kinetics of emerging contaminants in aqueous systems. <i>Chemical Engineering Journal</i> , 2013 , 219, 43-50	14.7	48

86	The Effectiveness of Single Oxidants and AOPs in the Degradation of Emerging Contaminants in Waters: A Comparison Study. <i>Ozone: Science and Engineering</i> , 2013 , 35, 263-272	2.4	11
85	Modeling the photodegradation of emerging contaminants in waters by UV radiation and UV/H ₂ O ₂ system. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 120-8	2.3	13
84	Combined chemical oxidation and membrane filtration techniques applied to the removal of some selected pharmaceuticals from water systems. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012 , 47, 522-33	2.3	25
83	Coupling of adsorption, coagulation, and ultrafiltration processes for the removal of emerging contaminants in a secondary effluent. <i>Chemical Engineering Journal</i> , 2012 , 210, 1-8	14.7	84
82	Elimination of the Emerging Contaminants Amitriptyline Hydrochloride, Methyl Salicylate, and 2-Phenoxyethanol in Ultrapure Water and Secondary Effluents by Photolytic and Radicalary Pathways. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16209-16215	3.9	14
81	Non-catalytic and catalytic wet air oxidation of pharmaceuticals in ultra-pure and natural waters. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 334-341	5.5	25
80	Bromination of selected pharmaceuticals in water matrices. <i>Chemosphere</i> , 2011 , 85, 1430-7	8.4	20
79	Comparison of different chemical oxidation treatments for the removal of selected pharmaceuticals in water matrices. <i>Chemical Engineering Journal</i> , 2011 , 168, 1149-1156	14.7	106
78	Ultrafiltration and nanofiltration membranes applied to the removal of the pharmaceuticals amoxicillin, naproxen, metoprolol and phenacetin from water. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 858-866	3.5	43
77	Kinetics of aqueous chlorination of some pharmaceuticals and their elimination from water matrices. <i>Water Research</i> , 2010 , 44, 4158-70	12.5	109
76	Membrane filtration technologies applied to municipal secondary effluents for potential reuse. <i>Journal of Hazardous Materials</i> , 2010 , 177, 390-8	12.8	92
75	Oxidation of hydrochlorothiazide by UV radiation, hydroxyl radicals and ozone: Kinetics and elimination from water systems. <i>Chemical Engineering Journal</i> , 2010 , 160, 72-78	14.7	30
74	Retention of emerging micropollutants from UP water and a municipal secondary effluent by ultrafiltration and nanofiltration. <i>Chemical Engineering Journal</i> , 2010 , 163, 264-272	14.7	90
73	Removal of selected pharmaceuticals in waters by photochemical processes. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 1186-1195	3.5	42
72	Combination of chemical oxidation-membrane filtration processes for the elimination of phenyl-ureas in water matrices. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 1883-1893	3.5	9
71	Removal of phenyl-urea herbicides in natural waters by UF membranes: Permeate flux, analysis of resistances and rejection coefficients. <i>Separation and Purification Technology</i> , 2009 , 65, 322-330	8.3	24
70	The use of ultrafiltration and nanofiltration membranes for the purification of cork processing wastewater. <i>Journal of Hazardous Materials</i> , 2009 , 162, 1438-45	12.8	62
69	Nanofiltration processes applied to the removal of phenyl-ureas in natural waters. <i>Journal of Hazardous Materials</i> , 2009 , 165, 714-23	12.8	10

68	Kinetics of the Chemical Oxidation of the Pharmaceuticals Primidone, Ketoprofen, and Diatrizoate in Ultrapure and Natural Waters. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3380-3388	3.9	98
67	Ozonation of pharmaceutical compounds: Rate constants and elimination in various water matrices. <i>Chemosphere</i> , 2009 , 77, 53-9	8.4	86
66	Removal of phenyl-urea herbicides in ultrapure water by ultrafiltration and nanofiltration processes. <i>Water Research</i> , 2009 , 43, 267-76	12.5	42
65	Oxidation of MC-LR and -RR with chlorine and potassium permanganate: toxicity of the reaction products. <i>Water Research</i> , 2008 , 42, 1744-52	12.5	64
64	Oxidation of chlorfenvinphos in ultrapure and natural waters by ozonation and photochemical processes. <i>Water Research</i> , 2008 , 42, 3198-206	12.5	30
63	Oxidation of microcystin-LR with chlorine and permanganate during drinking water treatment 2008 , 57, 371-380		21
62	Elimination of organic matter present in wastewaters from the cork industry by membrane filtration. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 309-316	3.5	8
61	Ozone and membrane filtration based strategies for the treatment of cork processing wastewaters. <i>Journal of Hazardous Materials</i> , 2008 , 152, 373-80	12.8	26
60	Chlorination of organophosphorus pesticides in natural waters. <i>Journal of Hazardous Materials</i> , 2008 , 153, 320-8	12.8	45
59	Treatment of wastewaters from the cork process industry by using ultrafiltration membranes. <i>Desalination</i> , 2008 , 229, 156-169	10.3	17
58	Kinetics of phenylurea herbicides oxidation by Fenton and photo-Fenton processes. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 65-73	3.5	37
57	Kinetics of reactions between chlorine or bromine and the herbicides diuron and isoproturon. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 214-222	3.5	27
56	Removal of diazinon by various advanced oxidation processes. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 566-574	3.5	31
55	Oxidation of microcystins by permanganate: reaction kinetics and implications for water treatment. <i>Water Research</i> , 2007 , 41, 102-10	12.5	139
54	Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. <i>Water Research</i> , 2007 , 41, 2048-56	12.5	76
53	Oxidative elimination of cyanotoxins: comparison of ozone, chlorine, chlorine dioxide and permanganate. <i>Water Research</i> , 2007 , 41, 3381-93	12.5	184
52	Kinetics of the transformation of phenyl-urea herbicides during ozonation of natural waters: rate constants and model predictions. <i>Water Research</i> , 2007 , 41, 4073-84	12.5	67
51	Application of microfiltration and ultrafiltration processes to cork processing wastewaters and assessment of the membrane fouling. <i>Separation and Purification Technology</i> , 2006 , 50, 354-364	8.3	54

50	Photochemical oxidation processes for the elimination of phenyl-urea herbicides in waters. <i>Journal of Hazardous Materials</i> , 2006 , 138, 278-87	12.8	85
49	Kinetics of reactions between chlorine and the cyanobacterial toxins microcystins. <i>Water Research</i> , 2005 , 39, 1628-38	12.5	119
48	Kinetics and mechanisms of formation of bromophenols during drinking water chlorination: assessment of taste and odor development. <i>Water Research</i> , 2005 , 39, 2979-93	12.5	131
47	Removal of phenolic compounds in water by ultrafiltration membrane treatments. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 1585-603	2.3	20
46	Oxidation of acetovanillone by photochemical processes and hydroxyl radicals. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 2153-69	2.3	12
45	Gallic acid degradation in aqueous solutions by UV/H ₂ O ₂ treatment, Fenton's reagent and the photo-Fenton system. <i>Journal of Hazardous Materials</i> , 2005 , 126, 31-9	12.8	60
44	Purification of Ellagic Acid by UF Membranes. <i>Chemical Engineering and Technology</i> , 2005 , 28, 1035-1040		9
43	Oxidation of Esculetin, a Model Pollutant Present in Cork Processing Wastewaters, by Chemical Methods. <i>Ozone: Science and Engineering</i> , 2005 , 27, 317-326	2.4	4
42	Chemical treatment of cork-processing wastewaters for potential reuse. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 1065-1072	3.5	19
41	Modeling of photooxidation of acetamide herbicides in natural waters by UV radiation and the combinations UV/H ₂ O ₂ and UV/O ₃ . <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 987-997	3.5	20
40	Oxidation of MCPA and 2,4-D by UV radiation, ozone, and the combinations UV/H ₂ O ₂ and O ₃ /H ₂ O ₂ . <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2004 , 39, 393-409	2.2	43
39	Purification of storage brines from the preservation of table olives. <i>Journal of Hazardous Materials</i> , 2003 , 96, 155-69	12.8	10
38	Kinetics of the ozonation and aerobic biodegradation of wine vinasses in discontinuous and continuous processes. <i>Journal of Hazardous Materials</i> , 2003 , 101, 203-18	12.8	53
37	Oxidation of Acetamide Herbicides in Natural Waters by Ozone and by the Combination of Ozone/Hydrogen Peroxide: Kinetic Study and Process Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 5762-5769	3.9	26
36	Kinetics of photodegradation and ozonation of pentachlorophenol. <i>Chemosphere</i> , 2003 , 51, 651-62	8.4	57
35	Purification of cork processing wastewaters by ozone, by activated sludge, and by their two sequential applications. <i>Water Research</i> , 2003 , 37, 4081-90	12.5	40
34	Degradation of carbofuran by using ozone, UV radiation and advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2002 , 89, 51-65	12.8	127
33	The use of ozone, ozone plus UV radiation, and aerobic microorganisms in the purification of some agro-industrial wastewaters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2002 , 37, 1307-25	2.3	15

32	Kinetics of Fenuron Decomposition by Single-Chemical Oxidants and Combined Systems. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4225-4232	3.9	20
31	Application of Ozone and Advanced Oxidation Processes to the Treatment of Lye-Wastewaters from the Table Olives Industry. <i>Ozone: Science and Engineering</i> , 2002 , 24, 105-116	2.4	10
30	Characterization of Oxidation processes: ozonation and the AOP O ₃ /H ₂ O ₂ . <i>Journal - American Water Works Association</i> , 2001 , 93, 90-100	0.5	105
29	Organic matter removal from wastewaters of the black olive industry by chemical and biological procedures. <i>Process Biochemistry</i> , 2001 , 37, 257-265	4.8	60
28	Oxidation of several chlorophenolic derivatives by UV irradiation and hydroxyl radicals. <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 312-320	3.5	57
27	The role of hydroxyl radicals for the decomposition of p-hydroxy phenylacetic acid in aqueous solutions. <i>Water Research</i> , 2001 , 35, 1338-43	12.5	113
26	MTBE oxidation by conventional ozonation and the combination ozone/hydrogen peroxide: efficiency of the processes and bromate formation. <i>Environmental Science & Technology</i> , 2001 , 35, 4252-9	10.3	131
25	Ozonation and Biodegradation Processes in Batch Reactors Treating Black Table Olives Washing Wastewaters. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 3144-3151	3.9	37
24	DNA degradation by the mixture of copper and catechol is caused by DNA-copper-hydroperoxo complexes, probably DNA-Cu(I)OOH. <i>Environmental and Molecular Mutagenesis</i> , 2000 , 36, 5-12	3.2	62
23	Rate constants for the reactions of ozone with chlorophenols in aqueous solutions. <i>Journal of Hazardous Materials</i> , 2000 , 79, 271-85	12.8	65
22	Contribution of free radicals to chlorophenols decomposition by several advanced oxidation processes. <i>Chemosphere</i> , 2000 , 41, 1271-7	8.4	138
21	Degradation Kinetics of Atrazine and Its Degradation Products with Ozone and OH Radicals: A Predictive Tool for Drinking Water Treatment. <i>Environmental Science & Technology</i> , 2000 , 34, 591-597	10.3	284
20	Influence of Carbonate on the Ozone/Hydrogen Peroxide Based Advanced Oxidation Process for Drinking Water Treatment. <i>Ozone: Science and Engineering</i> , 2000 , 22, 305-328	2.4	86
19	Purification kinetics of winery wastes by ozonation, anaerobic digestion and ozonation plus anaerobic digestion. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 1999 , 34, 2023-2041	2.3	6
18	Enhancement of the ozonation of wine distillery wastewaters by an aerobic pretreatment. <i>Bioprocess and Biosystems Engineering</i> , 1999 , 21, 459		27
17	Treatment of olive mill wastewaters by ozonation, aerobic degradation and the combination of both treatments. <i>Journal of Chemical Technology and Biotechnology</i> , 1999 , 74, 639-646	3.5	60
16	Chemical Decomposition of 2,4,6-Trichlorophenol by Ozone, Fenton's Reagent, and UV Radiation. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1341-1349	3.9	79
15	Treatments of wastewaters from olive oil mills by uv radiation and by combined ozone-UV radiation. <i>Toxicological and Environmental Chemistry</i> , 1997 , 61, 173-185	1.4	16

14	Chemical pretreatment by ozone of wastewaters from olive oil mills. <i>Toxicological and Environmental Chemistry</i> , 1997 , 60, 97-109	1.4	10
13	Ozonation Kinetics of Phenolic Acids Present in Wastewaters from Olive Oil Mills. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 638-644	3.9	43
12	Improvement of the anaerobic biodegradation of olive mill wastewaters by prior ozonation pretreatment. <i>Bioprocess and Biosystems Engineering</i> , 1997 , 17, 169		51
11	Aerobic degradation of olive mill wastewaters. <i>Applied Microbiology and Biotechnology</i> , 1997 , 47, 185-8	5.7	82
10	Simultaneous photodegradation and ozonation plus UV radiation of phenolic acids major pollutants in agro-industrial wastewaters. <i>Journal of Chemical Technology and Biotechnology</i> , 1997 , 70, 253-260	3.5	48
9	Degradation of protocatechuic acid by two advanced oxidation processes: Ozone/UV radiation and H ₂ O ₂ /UV radiation. <i>Water Research</i> , 1996 , 30, 1597-1604	12.5	61
8	Kinetics of the bentazone herbicide ozonation. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1996 , 31, 519-537		2
7	Oxidation of Vanillic acid as a model of polyphenolic compounds in olive oil wastewaters. III. Combined UV radiation-hydrogen peroxide oxidation. <i>Toxicological and Environmental Chemistry</i> , 1996 , 56, 199-210	1.4	9
6	Photolytic Decomposition of Bentazone. <i>Journal of Chemical Technology and Biotechnology</i> , 1996 , 66, 206-212	3.5	9
5	Advanced Oxidation Processes In The Degradation Of Cyanazine. <i>Ozone: Science and Engineering</i> , 1995 , 17, 237-258	2.4	12
4	Oxidation of Vanillic acid as a model of polyphenolic compound present in olive oil wastewaters. II. Photochemical oxidation and combined ozone-UV oxidation. <i>Toxicological and Environmental Chemistry</i> , 1995 , 47, 141-153	1.4	8
3	Oxidation of Vanillic acid as a model of Polyphenolic compound present in olive oil wastewaters. I. Ozonation process. <i>Toxicological and Environmental Chemistry</i> , 1994 , 46, 37-47	1.4	10
2	Photochemical oxidation of protocatechuic acid. <i>Water Research</i> , 1994 , 28, 2095-2100	12.5	10
1	Protocatechuic acid ozonation in aqueous solutions. <i>Water Research</i> , 1993 , 27, 1519-1525	12.5	6