Juan L Acero

List of Publications by Year
in descending order

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103	5,893	43973	76769
papers	citations	48 h-index	74 g-index

103	103	103	5125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Degradation Kinetics of Atrazine and Its Degradation Products with Ozone and OH Radicals:â€‰ A Predictive Tool for Drinking Water Treatment. Environmental Science & Technology, 2000, 34, 591-597.	4.6	350
2	Oxidative elimination of cyanotoxins: Comparison of ozone, chlorine, chlorine dioxide and permanganate. Water Research, 2007, 41, 3381-3393.	5.3	222
3	Kinetics and mechanisms of formation of bromophenols during drinking water chlorination: Assessment of taste and odor development. Water Research, 2005, 39, 2979-2993.	5.3	170
4	Contribution of free radicals to chlorophenols decomposition by several advanced oxidation processes. Chemosphere, 2000, 41, 1271-1277.	4.2	167
5	Oxidation of microcystins by permanganate: Reaction kinetics and implications for water treatment. Water Research, 2007, 41, 102-110.	5.3	164
6	MTBE Oxidation by Conventional Ozonation and the Combination Ozone/Hydrogen Peroxide:Â Efficiency of the Processes and Bromate Formation. Environmental Science & Technology, 2001, 35, 4252-4259.	4.6	153
7	Degradation of carbofuran by using ozone, UV radiation and advanced oxidation processes. Journal of Hazardous Materials, 2002, 89, 51-65.	6.5	149
8	Kinetics of reactions between chlorine and the cyanobacterial toxins microcystins. Water Research, 2005, 39, 1628-1638.	5.3	144
9	Characterization of Oxidation processes: ozonation and the AOP O₃/H₂O₂. Journal - American Water Works Association, 2001, 93, 90-100.	0.2	133
10	Comparison of different chemical oxidation treatments for the removal of selected pharmaceuticals in water matrices. Chemical Engineering Journal, 2011, 168, 1149-1156.	6.6	133
11	Kinetics of aqueous chlorination of some pharmaceuticals and their elimination from water matrices. Water Research, 2010, 44, 4158-4170.	5.3	128
12	The role of hydroxyl radicals for the decomposition of p-hydroxy phenylacetic acid in aqueous solutions. Water Research, 2001, 35, 1338-1343.	5.3	125
13	Influence of Carbonate on the Ozone/Hydrogen Peroxide Based Advanced Oxidation Process for Drinking Water Treatment. Ozone: Science and Engineering, 2000, 22, 305-328.	1.4	124
14	Kinetics of the Chemical Oxidation of the Pharmaceuticals Primidone, Ketoprofen, and Diatrizoate in Ultrapure and Natural Waters. Industrial & Engineering Chemistry Research, 2009, 48, 3380-3388.	1.8	119
15	Retention of emerging micropollutants from UP water and a municipal secondary effluent by ultrafiltration and nanofiltration. Chemical Engineering Journal, 2010, 163, 264-272.	6.6	112
16	Membrane filtration technologies applied to municipal secondary effluents for potential reuse. Journal of Hazardous Materials, 2010, 177, 390-398.	6.5	106
17	Coupling of adsorption, coagulation, and ultrafiltration processes for the removal of emerging contaminants in a secondary effluent. Chemical Engineering Journal, 2012, 210, 1-8.	6.6	104
18	Ozonation of pharmaceutical compounds: Rate constants and elimination in various water matrices. Chemosphere, 2009, 77, 53-59.	4.2	102

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19	Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. Water Research, 2007, 41, 2048-2056.	5.3	95
20	Photochemical oxidation processes for the elimination of phenyl-urea herbicides in waters. Journal of Hazardous Materials, 2006, 138, 278-287.	6.5	93
21	Aerobic degradation of olive mill wastewaters. Applied Microbiology and Biotechnology, 1997, 47, 185-188.	1.7	92
22	Micropollutants removal from retentates generated in ultrafiltration and nanofiltration treatments of municipal secondary effluents by means of coagulation, oxidation, and adsorption processes. Chemical Engineering Journal, 2016, 289, 48-58.	6.6	89
23	Chemical Decomposition of 2,4,6-Trichlorophenol by Ozone, Fenton's Reagent, and UV Radiation. Industrial & Engineering Chemistry Research, 1999, 38, 1341-1349.	1.8	85
24	Oxidation of MC-LR and -RR with chlorine and potassium permanganate: Toxicity of the reaction products. Water Research, 2008, 42, 1744-1752.	5.3	77
25	Rate constants for the reactions of ozone with chlorophenols in aqueous solutions. Journal of Hazardous Materials, 2000, 79, 271-285.	6.5	75
26	Gallic acid degradation in aqueous solutions by UV/H2O2 treatment, Fenton's reagent and the photo-Fenton system. Journal of Hazardous Materials, 2005, 126, 31-39.	6.5	75
27	Photolysis of model emerging contaminants in ultra-pure water: Kinetics, by-products formation and degradation pathways. Water Research, 2013, 47, 870-880.	5.3	75
28	Kinetics of the transformation of phenyl-urea herbicides during ozonation of natural waters: Rate constants and model predictions. Water Research, 2007, 41, 4073-4084.	5.3	74
29	Degradation of protocatechuic acid by two advanced oxidation processes: Ozone/UV radiation and H2O2UV radiation. Water Research, 1996, 30, 1597-1604.	5.3	70
30	Treatment of olive mill wastewaters by ozonation, aerobic degradation and the combination of both treatments. Journal of Chemical Technology and Biotechnology, 1999, 74, 639-646.	1.6	70
31	Oxidation of several chlorophenolic derivatives by UV irradiation and hydroxyl radicals. Journal of Chemical Technology and Biotechnology, 2001, 76, 312-320.	1.6	69
32	The use of ultrafiltration and nanofiltration membranes for the purification of cork processing wastewater. Journal of Hazardous Materials, 2009, 162, 1438-1445.	6.5	67
33	DNA degradation by the mixture of copper and catechol is caused by DNA-copper-hydroperoxo complexes, probably DNA-Cu(I)OOH. Environmental and Molecular Mutagenesis, 2000, 36, 5-12.	0.9	66
34	Kinetics of photodegradation and ozonation of pentachlorophenol. Chemosphere, 2003, 51, 651-662.	4.2	66
35	Organic matter removal from wastewaters of the black olive industry by chemical and biological procedures. Process Biochemistry, 2001, 37, 257-265.	1.8	64
36	Degradation of selected emerging contaminants by UV-activated persulfate: Kinetics and influence of matrix constituents. Separation and Purification Technology, 2018, 201, 41-50.	3.9	63

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37	Application of microfiltration and ultrafiltration processes to cork processing wastewaters and assessment of the membrane fouling. Separation and Purification Technology, 2006, 50, 354-364.	3.9	61
38	Kinetics of the ozonation and aerobic biodegradation of wine vinasses in discontinuous and continuous processes. Journal of Hazardous Materials, 2003, 101, 203-218.	6.5	60
39	Investigating PPCP Removal from Wastewater by Powdered Activated Carbon/Ultrafiltration. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	59
40	Degradation of neonicotinoids by UV irradiation: Kinetics and effect of real water constituents. Separation and Purification Technology, 2019, 211, 218-226.	3.9	59
41	Improvement of the anaerobic biodegradation of olive mill wastewaters by prior ozonation pretreatment. Bioprocess and Biosystems Engineering, 1997, 17, 169.	0.5	57
42	Chlorination and bromination kinetics of emerging contaminants in aqueous systems. Chemical Engineering Journal, 2013, 219, 43-50.	6.6	57
43	Removal of emerging contaminants from secondary effluents by micellar-enhanced ultrafiltration. Separation and Purification Technology, 2017, 181, 123-131.	3.9	57
44	Simultaneous photodegradation and ozonation plus UV radiation of phenolic acidsâ€”major pollutants in agro-industrial wastewaters. Journal of Chemical Technology and Biotechnology, 1997, 70, 253-260.	1.6	56
45	Ultrafiltration and nanofiltration membranes applied to the removal of the pharmaceuticals amoxicillin, naproxen, metoprolol and phenacetin from water. Journal of Chemical Technology and Biotechnology, 2011, 86, 858-866.	1.6	56
46	Chlorination of organophosphorus pesticides in natural waters. Journal of Hazardous Materials, 2008, 153, 320-328.	6.5	55
47	Ozonation Kinetics of Phenolic Acids Present in Wastewaters from Olive Oil Mills. Industrial & Engineering Chemistry Research, 1997, 36, 638-644.	1.8	53
48	Oxidation of MCPA and 2,4-dby UV Radiation, Ozone, and the Combinations UV/H2O2and O3/H2O2. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2004, 39, 393-409.	0.7	49
49	Removal of phenyl-urea herbicides in ultrapure water by ultrafiltration and nanofiltration processes. Water Research, 2009, 43, 267-276.	5.3	48
50	Purification of cork processing wastewaters by ozone, by activated sludge, and by their two sequential applications. Water Research, 2003, 37, 4081-4090.	5.3	45
51	Removal of selected pharmaceuticals in waters by photochemical processes. Journal of Chemical Technology and Biotechnology, 2009, 84, 1186-1195.	1.6	45
52	Kinetics of phenylurea herbicides oxidation by Fenton and photo-Fenton processes. Journal of Chemical Technology and Biotechnology, 2007, 82, 65-73.	1.6	42
53	Elimination of Selected Emerging Contaminants by the Combination of Membrane Filtration and Chemical Oxidation Processes. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	42
54	Ozonation and Biodegradation Processes in Batch Reactors Treating Black Table Olives Washing Wastewaters. Industrial & Engineering Chemistry Research, 2001, 40, 3144-3151.	1.8	40

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55	Removal of diazinon by various advanced oxidation processes. Journal of Chemical Technology and Biotechnology, 2007, 82, 566-574.	1.6	37
56	Oxidation of hydrochlorothiazide by UV radiation, hydroxyl radicals and ozone: Kinetics and elimination from water systems. Chemical Engineering Journal, 2010, 160, 72-78.	6.6	36
57	Oxidation of chlorfenvinphos in ultrapure and natural waters by ozonation and photochemical processes. Water Research, 2008, 42, 3198-3206.	5.3	34
58	Ozonation of benzotriazole and methylindole: Kinetic modeling, identification of intermediates and reaction mechanisms. Journal of Hazardous Materials, 2015, 282, 224-232.	6.5	34
59	Ozone and membrane filtration based strategies for the treatment of cork processing wastewaters. Journal of Hazardous Materials, 2008, 152, 373-380.	6.5	32
60	Non-catalytic and catalytic wet air oxidation of pharmaceuticals in ultra-pure and natural waters. Chemical Engineering Research and Design, 2011, 89, 334-341.	2.7	31
61	Combined chemical oxidation and membrane filtration techniques applied to the removal of some selected pharmaceuticals from water systems. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 522-533.	0.9	29
62	Enhancement of the ozonation of wine distillery wastewaters by an aerobic pretreatment. Bioprocess and Biosystems Engineering, 1999, 21, 459.	0.5	28
63	Kinetics of reactions between chlorine or bromine and the herbicides diuron and isoproturon. Journal of Chemical Technology and Biotechnology, 2007, 82, 214-222.	1.6	27
64	Oxidation of Acetamide Herbicides in Natural Waters by Ozone and by the Combination of Ozone/Hydrogen Peroxide:Â Kinetic Study and Process Modeling. Industrial & Engineering Chemistry Research, 2003, 42, 5762-5769.	1.8	26
65	Removal of Phenolic Compounds in Water by Ultrafiltration Membrane Treatments. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1585-1603.	0.9	26
66	Oxidation of microcystin-LR with chlorine and permanganate during drinking water treatment. Journal of Water Supply: Research and Technology - AQUA, 2008, 57, 371-380.	0.6	26
67	Removal of phenyl-urea herbicides in natural waters by UF membranes: Permeate flux, analysis of resistances and rejection coefficients. Separation and Purification Technology, 2009, 65, 322-330.	3.9	26
68	Bromination of selected pharmaceuticals in water matrices. Chemosphere, 2011, 85, 1430-1437.	4.2	24
69	Determination of the Reaction Rate Constants and Decomposition Mechanisms of Ozone with Two Model Emerging Contaminants: DEET and Nortriptyline. Industrial & Engineering Chemistry Research, 2013, 52, 17064-17073.	1.8	24
70	Chemical treatment of cork-processing wastewaters for potential reuse. Journal of Chemical Technology and Biotechnology, 2004, 79, 1065-1072.	1.6	22
71	Kinetics of Fenuron Decomposition by Single-Chemical Oxidants and Combined Systems. Industrial & Engineering Chemistry Research, 2002, 41, 4225-4232.	1.8	21
72	Modeling of photooxidation of acetamide herbicides in natural waters by UV radiation and the combinations UV/H2O2 and UV/O3. Journal of Chemical Technology and Biotechnology, 2004, 79, 987-997.	1.6	21

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73	Treatments of wastewaters from olive oil mills by uv radiation and by combined ozoneâ€UV radiation. Toxicological and Environmental Chemistry, 1997, 61, 173-185.	0.6	19
74	THE USE OF OZONE, OZONE PLUS UV RADIATION, AND AEROBIC MICROORGANISMS IN THE PURIFICATION OF SOME AGRO-INDUSTRIAL WASTEWATERS. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2002, 37, 1307-1325.	0.9	19
75	Treatment of wastewaters from the cork process industry by using ultrafiltration membranes. Desalination, 2008, 229, 156-169.	4.0	18
76	Oxidation of chlorophene by ozonation: Kinetics, identification of by-products and reaction pathways. Chemical Engineering Journal, 2013, 230, 447-455.	6.6	18
77	Elimination of the Emerging Contaminants Amitriptyline Hydrochloride, Methyl Salicylate, and 2-Phenoxyethanol in Ultrapure Water and Secondary Effluents by Photolytic and Radicalary Pathways. Industrial & Engineering Chemistry Research, 2012, 51, 16209-16215.	1.8	17
78	Oxidation of the emerging contaminants amitriptyline hydrochloride, methyl salicylate and 2â€phenoxyethanol by persulfate activated by <scp>UV</scp> irradiation. Journal of Chemical Technology and Biotechnology, 2016, 91, 1004-1011.	1.6	16
79	Adsorption of selected emerging contaminants onto PAC and GAC: Equilibrium isotherms, kinetics, and effect of the water matrix. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2017, 52, 727-734.	0.9	16
80	Modeling the photodegradation of emerging contaminants in waters by UV radiation and UV/H2O2system. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 120-128.	0.9	15
81	Photochemical oxidation of protocatechuic acid. Water Research, 1994, 28, 2095-2100.	5.3	14
82	Advanced Oxidation Processes In The Degradation Of Cyanazine. Ozone: Science and Engineering, 1995, 17, 237-258.	1.4	14
83	Application of Ozone and Advanced Oxidation Processes to the Treatment of Lye-Wastewaters from the Table Olives Industry. Ozone: Science and Engineering, 2002, 24, 105-116.	1.4	14
84	Purification of storage brines from the preservation of table olives. Journal of Hazardous Materials, 2003, 96, 155-169.	6.5	14
85	Oxidation of Vanillic acid as a model of Polyphenolic compound present in olive oil wastewaters. I. Ozonation process. Toxicological and Environmental Chemistry, 1994, 46, 37-47.	0.6	13
86	Oxidation of Vanillic acid as a model of polyphenolic compounds in olive oil wastewaters. III. Combined UV radiationâ€hydrogen peroxide oxidation. Toxicological and Environmental Chemistry, 1996, 56, 199-210.	0.6	13
87	The Effectiveness of Single Oxidants and AOPs in the Degradation of Emerging Contaminants in Waters: A Comparison Study. Ozone: Science and Engineering, 2013, 35, 263-272.	1.4	13
88	Chemical pretreatment by ozone of wastewaters from olive oil mills. Toxicological and Environmental Chemistry, 1997, 60, 97-109.	0.6	12
89	Oxidation of Acetovanillone by Photochemical Processes and Hydroxyl Radicals. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 2153-2169.	0.9	12
90	Nanofiltration processes applied to the removal of phenyl-ureas in natural waters. Journal of Hazardous Materials, 2009, 165, 714-723.	6.5	12

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91	Assessment of the UV/Cl₂ advanced oxidation process for the degradation of the emerging contaminants amitriptyline hydrochloride, methyl salicylate and 2-phenoxyethanol in water systems. Environmental Technology (United Kingdom), 2017, 38, 2508-2516.	1.2	12
92	Purification of Ellagic Acid by UF Membranes. Chemical Engineering and Technology, 2005, 28, 1035-1040.	0.9	11
93	Oxidation of Vanillic acid as a model of polyphenolic compound present in olive oil wastewaters. II. Photochemical oxidation and combined ozoneâ€UV oxidation. Toxicological and Environmental Chemistry, 1995, 47, 141-153.	0.6	10
94	Elimination of organic matter present in wastewaters from the cork industry by membrane filtration. Journal of Chemical Technology and Biotechnology, 2008, 83, 309-316.	1.6	10
95	Combination of chemical oxidationâ€membrane filtration processes for the elimination of phenylâ€ureas in water matrices. Journal of Chemical Technology and Biotechnology, 2009, 84, 1883-1893.	1.6	10
96	Membrane filtration, activated sludge and solar photocatalytic technologies for the effective treatment of table olive processing wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 105743.	3.3	10
97	Photolytic Decomposition of Bentazone. Journal of Chemical Technology and Biotechnology, 1996, 66, 206-212.	1.6	10
98	Protocatechuic acid ozonation in aqueous solutions. Water Research, 1993, 27, 1519-1525.	5.3	9
99	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. Journal of Chemical Technology and Biotechnology, 2015, 90, 1400-1407.	1.6	9
100	Purification kinetics of winery wastes by ozonation, anaerobic digestion and ozonation plus anaerobic digestion. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 1999, 34, 2023-2041.	0.9	8
101	Oxidation of Esculetin, a Model Pollutant Present in Cork Processing Wastewaters, by Chemical Methods. Ozone: Science and Engineering, 2005, 27, 317-326.	1.4	5
102	Influence of membrane, pH and water matrix properties on the retention of emerging contaminants by ultrafiltration and nanofiltration. Desalination and Water Treatment, 2016, 57, 11685-11698.	1.0	3
103	Kinetics of the bentazone herbicide ozonation. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1996, 31, 519-537.	0.1	2