

# Juan L Acero

## List of Publications by Citations

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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 | Degradation Kinetics of Atrazine and Its Degradation Products with Ozone and OH Radicals: A Predictive Tool for Drinking Water Treatment. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 591-597    | 10.3 | 284       |
| 102 | Oxidative elimination of cyanotoxins: comparison of ozone, chlorine, chlorine dioxide and permanganate. <i>Water Research</i> , <b>2007</b> , 41, 3381-93  | 12.5 | 184       |
| 101 | Oxidation of microcystins by permanganate: reaction kinetics and implications for water treatment. <i>Water Research</i> , <b>2007</b> , 41, 102-10  | 12.5 | 139       |
| 100 | Contribution of free radicals to chlorophenols decomposition by several advanced oxidation processes. <i>Chemosphere</i> , <b>2000</b> , 41, 1271-7  | 8.4  | 138       |
| 99  | Kinetics and mechanisms of formation of bromophenols during drinking water chlorination: assessment of taste and odor development. <i>Water Research</i> , <b>2005</b> , 39, 2979-93                                   | 12.5 | 131       |
| 98  | MTBE oxidation by conventional ozonation and the combination ozone/hydrogen peroxide: efficiency of the processes and bromate formation. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 4252-9      | 10.3 | 131       |
| 97  | Degradation of carbofuran by using ozone, UV radiation and advanced oxidation processes. <i>Journal of Hazardous Materials</i> , <b>2002</b> , 89, 51-65   | 12.8 | 127       |
| 96  | Kinetics of reactions between chlorine and the cyanobacterial toxins microcystins. <i>Water Research</i> , <b>2005</b> , 39, 1628-38   | 12.5 | 119       |
| 95  | The role of hydroxyl radicals for the decomposition of p-hydroxy phenylacetic acid in aqueous solutions. <i>Water Research</i> , <b>2001</b> , 35, 1338-43   | 12.5 | 113       |
| 94  | Kinetics of aqueous chlorination of some pharmaceuticals and their elimination from water matrices. <i>Water Research</i> , <b>2010</b> , 44, 4158-70  | 12.5 | 109       |
| 93  | Comparison of different chemical oxidation treatments for the removal of selected pharmaceuticals in water matrices. <i>Chemical Engineering Journal</i> , <b>2011</b> , 168, 1149-1156                                | 14.7 | 106       |
| 92  | Characterization of Oxidation processes: ozonation and the AOP O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> . <i>Journal - American Water Works Association</i> , <b>2001</b> , 93, 90-100                            | 0.5  | 105       |
| 91  | Kinetics of the Chemical Oxidation of the Pharmaceuticals Primidone, Ketoprofen, and Diatrizoate in Ultrapure and Natural Waters. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 3380-3388 | 3.9  | 98        |
| 90  | Membrane filtration technologies applied to municipal secondary effluents for potential reuse. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 177, 390-8  | 12.8 | 92        |
| 89  | Retention of emerging micropollutants from UP water and a municipal secondary effluent by ultrafiltration and nanofiltration. <i>Chemical Engineering Journal</i> , <b>2010</b> , 163, 264-272                         | 14.7 | 90        |
| 88  | Ozonation of pharmaceutical compounds: Rate constants and elimination in various water matrices. <i>Chemosphere</i> , <b>2009</b> , 77, 53-9   | 8.4  | 86        |
| 87  | Influence of Carbonate on the Ozone/Hydrogen Peroxide Based Advanced Oxidation Process for Drinking Water Treatment. <i>Ozone: Science and Engineering</i> , <b>2000</b> , 22, 305-328                                 | 2.4  | 86        |

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|----|--|------|----|
| 86 | Photochemical oxidation processes for the elimination of phenyl-urea herbicides in waters. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 138, 278-87   | 12.8 | 85 |
| 85 | Coupling of adsorption, coagulation, and ultrafiltration processes for the removal of emerging contaminants in a secondary effluent. <i>Chemical Engineering Journal</i> , <b>2012</b> , 210, 1-8  | 14.7 | 84 |
| 84 | Aerobic degradation of olive mill wastewaters. <i>Applied Microbiology and Biotechnology</i> , <b>1997</b> , 47, 185-8   | 5.7  | 82 |
| 83 | Chemical Decomposition of 2,4,6-Trichlorophenol by Ozone, Fenton's Reagent, and UV Radiation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 1341-1349   | 3.9  | 79 |
| 82 | Kinetics of the oxidation of cylindrospermopsin and anatoxin-a with chlorine, monochloramine and permanganate. <i>Water Research</i> , <b>2007</b> , 41, 2048-56   | 12.5 | 76 |
| 81 | Photolysis of model emerging contaminants in ultra-pure water: kinetics, by-products formation and degradation pathways. <i>Water Research</i> , <b>2013</b> , 47, 870-80  | 12.5 | 68 |
| 80 | 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> , <b>2016</b> , 289, 48-58 | 14.7 | 67 |
| 79 | Kinetics of the transformation of phenyl-urea herbicides during ozonation of natural waters: rate constants and model predictions. <i>Water Research</i> , <b>2007</b> , 41, 4073-84   | 12.5 | 67 |
| 78 | Rate constants for the reactions of ozone with chlorophenols in aqueous solutions. <i>Journal of Hazardous Materials</i> , <b>2000</b> , 79, 271-85  | 12.8 | 65 |
| 77 | Oxidation of MC-LR and -RR with chlorine and potassium permanganate: toxicity of the reaction products. <i>Water Research</i> , <b>2008</b> , 42, 1744-52  | 12.5 | 64 |
| 76 | The use of ultrafiltration and nanofiltration membranes for the purification of cork processing wastewater. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 162, 1438-45   | 12.8 | 62 |
| 75 | DNA degradation by the mixture of copper and catechol is caused by DNA-copper-hydroperoxo complexes, probably DNA-Cu(II)OOH. <i>Environmental and Molecular Mutagenesis</i> , <b>2000</b> , 36, 5-12   | 3.2  | 62 |
| 74 | Degradation of protocatechuic acid by two advanced oxidation processes: Ozone/UV radiation and H <sub>2</sub> O <sub>2</sub> /UV radiation. <i>Water Research</i> , <b>1996</b> , 30, 1597-1604  | 12.5 | 61 |
| 73 | Gallic acid degradation in aqueous solutions by UV/H <sub>2</sub> O <sub>2</sub> treatment, Fenton's reagent and the photo-Fenton system. <i>Journal of Hazardous Materials</i> , <b>2005</b> , 126, 31-9  | 12.8 | 60 |
| 72 | Organic matter removal from wastewaters of the black olive industry by chemical and biological procedures. <i>Process Biochemistry</i> , <b>2001</b> , 37, 257-265   | 4.8  | 60 |
| 71 | Treatment of olive mill wastewaters by ozonation, aerobic degradation and the combination of both treatments. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1999</b> , 74, 639-646  | 3.5  | 60 |
| 70 | Kinetics of photodegradation and ozonation of pentachlorophenol. <i>Chemosphere</i> , <b>2003</b> , 51, 651-62   | 8.4  | 57 |
| 69 | Oxidation of several chlorophenolic derivatives by UV irradiation and hydroxyl radicals. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2001</b> , 76, 312-320   | 3.5  | 57 |

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|----|--|------|----|
| 68 | Application of microfiltration and ultrafiltration processes to cork processing wastewaters and assessment of the membrane fouling. <i>Separation and Purification Technology</i> , <b>2006</b> , 50, 354-364  | 8.3  | 54 |
| 67 | Kinetics of the ozonation and aerobic biodegradation of wine vinasses in discontinuous and continuous processes. <i>Journal of Hazardous Materials</i> , <b>2003</b> , 101, 203-18   | 12.8 | 53 |
| 66 | Improvement of the anaerobic biodegradation of olive mill wastewaters by prior ozonation pretreatment. <i>Bioprocess and Biosystems Engineering</i> , <b>1997</b> , 17, 169  |      | 51 |
| 65 | Chlorination and bromination kinetics of emerging contaminants in aqueous systems. <i>Chemical Engineering Journal</i> , <b>2013</b> , 219, 43-50  | 14.7 | 48 |
| 64 | Simultaneous photodegradation and ozonation plus UV radiation of phenolic acids major pollutants in agro-industrial wastewaters. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1997</b> , 70, 253-260   | 3.5  | 48 |
| 63 | Investigating PPCP Removal from Wastewater by Powdered Activated Carbon/Ultrafiltration. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1  | 2.6  | 46 |
| 62 | Chlorination of organophosphorus pesticides in natural waters. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 320-8  | 12.8 | 45 |
| 61 | Degradation of selected emerging contaminants by UV-activated persulfate: Kinetics and influence of matrix constituents. <i>Separation and Purification Technology</i> , <b>2018</b> , 201, 41-50  | 8.3  | 43 |
| 60 | 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> , <b>2011</b> , 86, 858-866  | 3.5  | 43 |
| 59 | Ozonation Kinetics of Phenolic Acids Present in Wastewaters from Olive Oil Mills. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 638-644   | 3.9  | 43 |
| 58 | Oxidation of MCPA and 2,4-D by UV radiation, ozone, and the combinations UV/H <sub>2</sub> O <sub>2</sub> and O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> . <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , <b>2004</b> , 39, 393-409 | 2.2  | 43 |
| 57 | Removal of selected pharmaceuticals in waters by photochemical processes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1186-1195  | 3.5  | 42 |
| 56 | Removal of phenyl-urea herbicides in ultrapure water by ultrafiltration and nanofiltration processes. <i>Water Research</i> , <b>2009</b> , 43, 267-76   | 12.5 | 42 |
| 55 | Removal of emerging contaminants from secondary effluents by micellar-enhanced ultrafiltration. <i>Separation and Purification Technology</i> , <b>2017</b> , 181, 123-131   | 8.3  | 41 |
| 54 | Purification of cork processing wastewaters by ozone, by activated sludge, and by their two sequential applications. <i>Water Research</i> , <b>2003</b> , 37, 4081-90   | 12.5 | 40 |
| 53 | Kinetics of phenylurea herbicides oxidation by Fenton and photo-Fenton processes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 65-73  | 3.5  | 37 |
| 52 | Ozonation and Biodegradation Processes in Batch Reactors Treating Black Table Olives Washing Wastewaters. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 3144-3151   | 3.9  | 37 |
| 51 | Elimination of Selected Emerging Contaminants by the Combination of Membrane Filtration and Chemical Oxidation Processes. <i>Water, Air, and Soil Pollution</i> , <b>2015</b> , 226, 1   | 2.6  | 35 |

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| 50 | Removal of diazinon by various advanced oxidation processes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 566-574   | 3.5  | 31 |
| 49 | Oxidation of hydrochlorothiazide by UV radiation, hydroxyl radicals and ozone: Kinetics and elimination from water systems. <i>Chemical Engineering Journal</i> , <b>2010</b> , 160, 72-78   | 14.7 | 30 |
| 48 | Oxidation of chlorfenvinphos in ultrapure and natural waters by ozonation and photochemical processes. <i>Water Research</i> , <b>2008</b> , 42, 3198-206  | 12.5 | 30 |
| 47 | Degradation of neonicotinoids by UV irradiation: Kinetics and effect of real water constituents. <i>Separation and Purification Technology</i> , <b>2019</b> , 211, 218-226  | 8.3  | 28 |
| 46 | Kinetics of reactions between chlorine or bromine and the herbicides diuron and isoproturon. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 214-222   | 3.5  | 27 |
| 45 | Enhancement of the ozonation of wine distillery wastewaters by an aerobic pretreatment. <i>Bioprocess and Biosystems Engineering</i> , <b>1999</b> , 21, 459   |      | 27 |
| 44 | Ozonation of benzotriazole and methylindole: Kinetic modeling, identification of intermediates and reaction mechanisms. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 282, 224-32  | 12.8 | 26 |
| 43 | Ozone and membrane filtration based strategies for the treatment of cork processing wastewaters. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 152, 373-80   | 12.8 | 26 |
| 42 | Oxidation of Acetamide Herbicides in Natural Waters by Ozone and by the Combination of Ozone/Hydrogen Peroxide: Kinetic Study and Process Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 5762-5769   | 3.9  | 26 |
| 41 | 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> , <b>2012</b> , 47, 522-33 | 2.3  | 25 |
| 40 | Non-catalytic and catalytic wet air oxidation of pharmaceuticals in ultra-pure and natural waters. <i>Chemical Engineering Research and Design</i> , <b>2011</b> , 89, 334-341   | 5.5  | 25 |
| 39 | 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> , <b>2009</b> , 65, 322-330  | 8.3  | 24 |
| 38 | Oxidation of microcystin-LR with chlorine and permanganate during drinking water treatment <b>2008</b> , 57, 371-380   |      | 21 |
| 37 | Bromination of selected pharmaceuticals in water matrices. <i>Chemosphere</i> , <b>2011</b> , 85, 1430-7   | 8.4  | 20 |
| 36 | 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> , <b>2005</b> , 40, 1585-603   | 2.3  | 20 |
| 35 | Modeling of photooxidation of acetamide herbicides in natural waters by UV radiation and the combinations UV/H <sub>2</sub> O <sub>2</sub> and UV/O <sub>3</sub> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2004</b> , 79, 987-997                                     | 3.5  | 20 |
| 34 | Kinetics of Fenuron Decomposition by Single-Chemical Oxidants and Combined Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4225-4232   | 3.9  | 20 |
| 33 | Chemical treatment of cork-processing wastewaters for potential reuse. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2004</b> , 79, 1065-1072   | 3.5  | 19 |

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|----|--|------|----|
| 32 | Determination of the Reaction Rate Constants and Decomposition Mechanisms of Ozone with Two Model Emerging Contaminants: DEET and Nortriptyline. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17064-17073  | 3.9  | 18 |
| 31 | Oxidation of chlorophene by ozonation: Kinetics, identification of by-products and reaction pathways. <i>Chemical Engineering Journal</i> , <b>2013</b> , 230, 447-455   | 14.7 | 17 |
| 30 | Treatment of wastewaters from the cork process industry by using ultrafiltration membranes. <i>Desalination</i> , <b>2008</b> , 229, 156-169   | 10.3 | 17 |
| 29 | Treatments of wastewaters from olive oil mills by uv radiation and by combined ozone-UV radiation. <i>Toxicological and Environmental Chemistry</i> , <b>1997</b> , 61, 173-185  | 1.4  | 16 |
| 28 | 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> , <b>2002</b> , 37, 1307-25        | 2.3  | 15 |
| 27 | 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 &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 16209-16215 | 3.9  | 14 |
| 26 | 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> , <b>2016</b> , 91, 1004-1011  | 3.5  | 14 |
| 25 | Modeling the photodegradation of emerging contaminants in waters by UV radiation and UV/H <sub>2</sub> O <sub>2</sub> system. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2013</b> , 48, 120-8           | 2.3  | 13 |
| 24 | 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> , <b>2005</b> , 40, 2153-69   | 2.3  | 12 |
| 23 | Advanced Oxidation Processes In The Degradation Of Cyanazine. <i>Ozone: Science and Engineering</i> , <b>1995</b> , 17, 237-258  | 2.4  | 12 |
| 22 | 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> , <b>2017</b> , 52, 727-734       | 2.3  | 11 |
| 21 | The Effectiveness of Single Oxidants and AOPs in the Degradation of Emerging Contaminants in Waters: A Comparison Study. <i>Ozone: Science and Engineering</i> , <b>2013</b> , 35, 263-272   | 2.4  | 11 |
| 20 | 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> , <b>2017</b> , 38, 2508-2516               | 2.6  | 10 |
| 19 | Nanofiltration processes applied to the removal of phenyl-ureas in natural waters. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 165, 714-23   | 12.8 | 10 |
| 18 | Chemical pretreatment by ozone of wastewaters from olive oil mills. <i>Toxicological and Environmental Chemistry</i> , <b>1997</b> , 60, 97-109  | 1.4  | 10 |
| 17 | Purification of storage brines from the preservation of table olives. <i>Journal of Hazardous Materials</i> , <b>2003</b> , 96, 155-69   | 12.8 | 10 |
| 16 | Application of Ozone and Advanced Oxidation Processes to the Treatment of Lye-Wastewaters from the Table Olives Industry. <i>Ozone: Science and Engineering</i> , <b>2002</b> , 24, 105-116  | 2.4  | 10 |
| 15 | Oxidation of Vanillic acid as a model of Polyphenolic compound present in olive oil wastewaters. I. Ozonation process. <i>Toxicological and Environmental Chemistry</i> , <b>1994</b> , 46, 37-47  | 1.4  | 10 |

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|----|--|------|----|
| 14 | Photochemical oxidation of protocatechuic acid. <i>Water Research</i> , <b>1994</b> , 28, 2095-2100  | 12.5 | 10 |
| 13 | Combination of chemical oxidation-membrane filtration processes for the elimination of phenyl-ureas in water matrices. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1883-1893   | 3.5  | 9  |
| 12 | Purification of Ellagic Acid by UF Membranes. <i>Chemical Engineering and Technology</i> , <b>2005</b> , 28, 1035-1040   | 2    | 9  |
| 11 | 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> , <b>1996</b> , 56, 199-210   | 1.4  | 9  |
| 10 | Photolytic Decomposition of Bentazone. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1996</b> , 66, 206-212   | 3.5  | 9  |
| 9  | 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> , <b>2015</b> , 90, 1400-1407 | 3.5  | 8  |
| 8  | Elimination of organic matter present in wastewaters from the cork industry by membrane filtration. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2008</b> , 83, 309-316  | 3.5  | 8  |
| 7  | 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> , <b>1995</b> , 47, 141-153   | 1.4  | 8  |
| 6  | 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> , <b>1999</b> , 34, 2023-2041  | 2.3  | 6  |
| 5  | Protocatechuic acid ozonation in aqueous solutions. <i>Water Research</i> , <b>1993</b> , 27, 1519-1525  | 12.5 | 6  |
| 4  | Oxidation of Esculetin, a Model Pollutant Present in Cork Processing Wastewaters, by Chemical Methods. <i>Ozone: Science and Engineering</i> , <b>2005</b> , 27, 317-326   | 2.4  | 4  |
| 3  | Influence of membrane, pH and water matrix properties on the retention of emerging contaminants by ultrafiltration and nanofiltration. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 11685-11698   | 3    | 3  |
| 2  | Kinetics of the bentazone herbicide ozonation. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , <b>1996</b> , 31, 519-537  |      | 2  |
| 1  | Membrane filtration, activated sludge and solar photocatalytic technologies for the effective treatment of table olive processing wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105743   | 6.8  | 2  |