

Efram A Serna-Galvis

List of Publications by Citations

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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.

53
papers

1,134
citations

19
h-index

33
g-index

54
ext. papers

1,405
ext. citations

7.4
avg, IF

5.22
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 53 | Degradation of highly consumed fluoroquinolones, penicillins and cephalosporins in distilled water and simulated hospital wastewater by UV and UV/persulfate processes. <i>Water Research</i> , 2017 , 122, 128-138 | 12.5 | 95 |
| 52 | Degradation of seventeen contaminants of emerging concern in municipal wastewater effluents by sonochemical advanced oxidation processes. <i>Water Research</i> , 2019 , 154, 349-360 | 12.5 | 85 |
| 51 | High frequency ultrasound as a selective advanced oxidation process to remove penicillinic antibiotics and eliminate its antimicrobial activity from water. <i>Ultrasonics Sonochemistry</i> , 2016 , 31, 276-283 | 8.9 | 76 |
| 50 | Comparison of route, mechanism and extent of treatment for the degradation of a β -lactam antibiotic by TiO ₂ photocatalysis, sonochemistry, electrochemistry and the photo-Fenton system. <i>Chemical Engineering Journal</i> , 2016 , 284, 953-962 | 14.7 | 75 |
| 49 | Degradation of the antibiotic oxacillin in water by anodic oxidation with Ti/IrO ₂ anodes: Evaluation of degradation routes, organic by-products and effects of water matrix components. <i>Chemical Engineering Journal</i> , 2015 , 279, 103-114 | 14.7 | 66 |
| 48 | Sonochemical degradation of the pharmaceutical fluoxetine: Effect of parameters, organic and inorganic additives and combination with a biological system. <i>Science of the Total Environment</i> , 2015 , 524-525, 354-60 | 10.2 | 64 |
| 47 | Comparative study of the effect of pharmaceutical additives on the elimination of antibiotic activity during the treatment of oxacillin in water by the photo-Fenton, TiO ₂ -photocatalysis and electrochemical processes. <i>Science of the Total Environment</i> , 2016 , 541, 1431-1438 | 10.2 | 58 |
| 46 | Effective elimination of fifteen relevant pharmaceuticals in hospital wastewater from Colombia by combination of a biological system with a sonochemical process. <i>Science of the Total Environment</i> , 2019 , 670, 623-632 | 10.2 | 56 |
| 45 | Structure-reactivity relationship in the degradation of three representative fluoroquinolone antibiotics in water by electrogenerated active chlorine. <i>Chemical Engineering Journal</i> , 2017 , 315, 552-561 | 14.7 | 41 |
| 44 | Removal of antibiotic cloxacillin by means of electrochemical oxidation, TiO photocatalysis, and photo-Fenton processes: analysis of degradation pathways and effect of the water matrix on the elimination of antimicrobial activity. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 6339-6352 | 5.1 | 40 |
| 43 | Sonochemical degradation of antibiotics from representative classes-Considerations on structural effects, initial transformation products, antimicrobial activity and matrix. <i>Ultrasonics Sonochemistry</i> , 2019 , 50, 157-165 | 8.9 | 40 |
| 42 | TiO ₂ photocatalysis applied to the degradation and antimicrobial activity removal of oxacillin: Evaluation of matrix components, experimental parameters, degradation pathways and identification of organics by-products. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 311, 95-103 | 4.7 | 36 |
| 41 | Elimination of Isoxazolyl-Penicillins antibiotics in waters by the ligninolytic native Colombian strain <i>Leptosphaerulina</i> sp. considerations on biodegradation process and antimicrobial activity removal. <i>Science of the Total Environment</i> , 2018 , 630, 1195-1204 | 10.2 | 32 |
| 40 | Degradation of the emerging concern pollutant ampicillin in aqueous media by sonochemical advanced oxidation processes - Parameters effect, removal of antimicrobial activity and pollutant treatment in hydrolyzed urine. <i>Journal of Environmental Management</i> , 2020 , 261, 110224 | 7.9 | 30 |
| 39 | Inactivation of carbapenem-resistant <i>Klebsiella pneumoniae</i> by photo-Fenton: Residual effect, gene evolution and modifications with citric acid and persulfate. <i>Water Research</i> , 2019 , 161, 354-363 | 12.5 | 27 |
| 38 | Removal of β -lactam antibiotics from pharmaceutical wastewaters using photo-Fenton process at near-neutral pH. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 20293-20303 | 5.1 | 25 |
| 37 | Comparative degradation of two highly consumed antihypertensives in water by sonochemical process. Determination of the reaction zone, primary degradation products and theoretical calculations on the oxidative process. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104635 | 8.9 | 25 |

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|----|---|------|----|
| 36 | Electrochemical treatment of penicillin, cephalosporin, and fluoroquinolone antibiotics via active chlorine: evaluation of antimicrobial activity, toxicity, matrix, and their correlation with the degradation pathways. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 23771-23782 | 5.1 | 25 |
| 35 | Sonolysis 2018 , 177-213 | | 23 |
| 34 | Photoinduced disinfection in sunlit natural waters: Measurement of the second order inactivation rate constants between E. coli and photogenerated transient species. <i>Water Research</i> , 2018 , 147, 242-253 | 12.5 | 19 |
| 33 | A review on pharmaceuticals removal from waters by single and combined biological, membrane filtration and ultrasound systems. <i>Ultrasonics Sonochemistry</i> , 2021 , 76, 105656 | 8.9 | 18 |
| 32 | Kinetic modeling of lag times during photo-induced inactivation of E. coli in sunlit surface waters: Unraveling the pathways of exogenous action. <i>Water Research</i> , 2019 , 163, 114894 | 12.5 | 17 |
| 31 | Elimination of carbapenem resistant <i>Klebsiella pneumoniae</i> in water by UV-C, UV-C/persulfate and UV-C/H ₂ O ₂ . Evaluation of response to antibiotic, residual effect of the processes and removal of resistance gene. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 102196 | 6.8 | 17 |
| 30 | Elimination of representative fluoroquinolones, penicillins, and cephalosporins by solar photo-Fenton: degradation routes, primary transformations, degradation improvement by citric acid addition, and antimicrobial activity evolution. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 41381-41393 | 5.1 | 16 |
| 29 | Developments in the intensification of photo-Fenton and ozonation-based processes for the removal of contaminants of emerging concern in Ibero-American countries. <i>Science of the Total Environment</i> , 2021 , 765, 142699 | 10.2 | 16 |
| 28 | Treatment of wastewater effluents from Bogotá Colombia by the photo-electro-Fenton process: Elimination of bacteria and pharmaceutical. <i>Science of the Total Environment</i> , 2021 , 772, 144890 | 10.2 | 14 |
| 27 | Evaluation of process influencing factors, degradation products, toxicity evolution and matrix-related effects during electro-Fenton removal of piroxicam from waters. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103400 | 6.8 | 13 |
| 26 | Degradation of Losartan in Fresh Urine by Sonochemical and Photochemical Advanced Oxidation Processes. <i>Water (Switzerland)</i> , 2020 , 12, 3398 | 3 | 11 |
| 25 | Photocatalytic vs. sonochemical removal of antibiotics in water: Structure-degradability relationship, mineralization, antimicrobial activity, and matrix effects. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104359 | 6.8 | 7 |
| 24 | Understanding the effects of mineral water matrix on degradation of several pharmaceuticals by ultrasound: Influence of chemical structure and concentration of the pollutants. <i>Ultrasonics Sonochemistry</i> , 2021 , 73, 105500 | 8.9 | 7 |
| 23 | Treatment of two sartan antihypertensives in water by photo-electro-Fenton using BDD anodes: Degradation kinetics, theoretical analyses, primary transformations and matrix effects. <i>Chemosphere</i> , 2021 , 270, 129491 | 8.4 | 7 |
| 22 | Coupling chemical oxidation processes and <i>Leptosphaerulina</i> sp. myco-remediation to enhance the removal of recalcitrant organic pollutants in aqueous systems. <i>Science of the Total Environment</i> , 2021 , 772, 145449 | 10.2 | 7 |
| 21 | Degradation of Recalcitrant Safranin T Through an Electrochemical Process and Three Photochemical Advanced Oxidation Technologies. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1 | 2.6 | 5 |
| 20 | Dataset on application of electrochemical and photochemical processes for sulfacetamide antibiotic elimination in water. <i>Data in Brief</i> , 2020 , 29, 105158 | 1.2 | 5 |
| 19 | Data on treatment of nafcillin and ampicillin antibiotics in water by sonochemistry. <i>Data in Brief</i> , 2020 , 29, 105361 | 1.2 | 4 |

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| 18 | Effect of the presence of inorganic ions and operational parameters on free cyanide degradation by ultraviolet C activation of persulfate in synthetic mining wastewater. <i>Minerals Engineering</i> , 2021 , 170, 107031 | 4.9 | 4 |
| 17 | Irreversible inactivation of carbapenem-resistant <i>Klebsiella pneumoniae</i> and its genes in water by photo-electro-oxidation and photo-electro-Fenton - Processes action modes. <i>Science of the Total Environment</i> , 2021 , 792, 148360 | 10.2 | 4 |
| 16 | Sonochemical Advanced Oxidation Processes for the Removal of Pharmaceuticals in Wastewater Effluents. <i>Handbook of Environmental Chemistry</i> , 2020 , 349-381 | 0.8 | 3 |
| 15 | Dataset on the degradation of losartan by TiO-photocatalysis and UVC/persulfate processes. <i>Data in Brief</i> , 2020 , 31, 105692 | 1.2 | 3 |
| 14 | Electrochemical Degradation of Naproxen (NPX) and Diclofenac (DFC) through Active Chlorine Species (Cl ₂ -active): Considerations on Structural Aspects and Degradation in Urine. <i>ECS Transactions</i> , 2021 , 100, 55-71 | 1 | 3 |
| 13 | A critical review on the sonochemical degradation of organic pollutants in urine, seawater, and mineral water.. <i>Ultrasonics Sonochemistry</i> , 2021 , 82, 105861 | 8.9 | 2 |
| 12 | Recent developments in sonochemical treatments of contaminated wastewaters 2021 , 299-315 | | 2 |
| 11 | Improvement of solar photo-Fenton by extracts of amazonian fruits for the degradation of pharmaceuticals in municipal wastewater. <i>Environmental Science and Pollution Research</i> , 2021 , 1 | 5.1 | 2 |
| 10 | Degradation of hexacyanoferrate (III) ion by the coupling of the ultraviolet light and the activation of persulfate at basic pH. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106233 | 6.8 | 2 |
| 9 | Photochemical and photocatalytic degradation of antibiotics in water promoted by solar irradiation 2020 , 211-243 | | 1 |
| 8 | White as a catalyst source for water remediation: Differentiated antimicrobial activity of by-products, action routes of the process, and transformation of fluoroquinolones. <i>Chemical Engineering Journal</i> , 2022 , 435, 134850 | 14.7 | 1 |
| 7 | Superior selectivity of high-frequency ultrasound toward chlorine containing-pharmaceuticals elimination in urine: A comparative study with other oxidation processes through the elucidation of the degradation pathways. <i>Ultrasonics Sonochemistry</i> , 2021 , 80, 105814 | 8.9 | 1 |
| 6 | Tratamiento de aguas contaminadas con colorantes mediante fotocatalisis con TiO ₂ usando luz artificial y solar. <i>Produccion Y Limpia</i> , 2017 , 12, 50-60 | 0.1 | 1 |
| 5 | Understanding the Role of Complexation of Fluoroquinolone and Lactam Antibiotics with Iron (III) on the Photodegradation under Solar Light and UVC Light. <i>Water (Switzerland)</i> , 2021 , 13, 2603 | 3 | 1 |
| 4 | An Initial Approach to the Presence of Pharmaceuticals in Wastewater from Hospitals in Colombia and Their Environmental Risk. <i>Water (Switzerland)</i> , 2022 , 14, 950 | 3 | 1 |
| 3 | Enhanced solar photo-electro-Fenton by <i>Theobroma grandiflorum</i> addition during pharmaceuticals elimination in municipal wastewater: Action routes, process improvement, and biodegradability of the treated water. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107489 | 6.8 | 1 |
| 2 | Use of CdS from Teaching-Laboratory Wastes as a Photocatalyst for the Degradation of Fluoroquinolone Antibiotics in Water. <i>Water (Switzerland)</i> , 2021 , 13, 2154 | 3 | |
| 1 | An alternative approach to the kinetic modeling of pharmaceuticals degradation in high saline water by electrogenerated active chlorine species.. <i>Journal of Environmental Management</i> , 2022 , 315, 115119 | 7.9 | |

