

# Efram A Serna-Galvis

## 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.

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	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> , <b>2022</b> , 435, 134850	14.7	1
52	An Initial Approach to the Presence of Pharmaceuticals in Wastewater from Hospitals in Colombia and Their Environmental Risk. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 950	3	1
51	Enhanced solar photo-electro-Fenton by Theobroma grandiflorum addition during pharmaceuticals elimination in municipal wastewater: Action routes, process improvement, and biodegradability of the treated water. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107489	6.8	1
50	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> , <b>2022</b> , 315, 115119	7.9	
49	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> , <b>2021</b> , 80, 105814	8.9	1
48	A critical review on the sonochemical degradation of organic pollutants in urine, seawater, and mineral water.. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 82, 105861	8.9	2
47	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> , <b>2021</b> , 73, 105500	8.9	7
46	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> , <b>2021</b> , 270, 129491	8.4	7
45	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> , <b>2021</b> , 772, 145449	10.2	7
44	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> , <b>2021</b> , 772, 144890	10.2	14
43	Recent developments in sonochemical treatments of contaminated wastewaters <b>2021</b> , 299-315		2
42	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> , <b>2021</b> , 765, 142699	10.2	16
41	Electrochemical Degradation of Naproxen (NPX) and Diclofenac (DFC) through Active Chlorine Species (Cl <sub>2</sub> -active): Considerations on Structural Aspects and Degradation in Urine. <i>ECS Transactions</i> , <b>2021</b> , 100, 55-71	1	3
40	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> , <b>2021</b> , 1	5.1	2
39	Use of CdS from Teaching-Laboratory Wastes as a Photocatalyst for the Degradation of Fluoroquinolone Antibiotics in Water. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2154	3	
38	A review on pharmaceuticals removal from waters by single and combined biological, membrane filtration and ultrasound systems. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 76, 105656	8.9	18
37	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> , <b>2021</b> , 170, 107031	4.9	4

36	Understanding the Role of Complexation of Fluoroquinolone and $\beta$ -Lactam Antibiotics with Iron (III) on the Photodegradation under Solar Light and UVC Light. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2603	3	1
35	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> , <b>2021</b> , 9, 106233	6.8	2
34	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> , <b>2021</b> , 792, 148360	10.2	4
33	Degradation of Losartan in Fresh Urine by Sonochemical and Photochemical Advanced Oxidation Processes. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3398	3	11
32	Sonochemical Advanced Oxidation Processes for the Removal of Pharmaceuticals in Wastewater Effluents. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 349-381	0.8	3
31	Dataset on the degradation of losartan by TiO <sub>2</sub> -photocatalysis and UVC/persulfate processes. <i>Data in Brief</i> , <b>2020</b> , 31, 105692	1.2	3
30	Data on treatment of nafcillin and ampicillin antibiotics in water by sonochemistry. <i>Data in Brief</i> , <b>2020</b> , 29, 105361	1.2	4
29	Photochemical and photocatalytic degradation of antibiotics in water promoted by solar irradiation <b>2020</b> , 211-243		1
28	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> , <b>2020</b> , 261, 110224	7.9	30
27	Dataset on application of electrochemical and photochemical processes for sulfacetamide antibiotic elimination in water. <i>Data in Brief</i> , <b>2020</b> , 29, 105158	1.2	5
26	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> , <b>2020</b> , 27, 41381-41393	5.1	16
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> , <b>2020</b> , 8, 104359	6.8	7
24	Elimination of carbapenem resistant <i>Klebsiella pneumoniae</i> in water by UV-C, UV-C/persulfate and UV-C/H <sub>2</sub> O <sub>2</sub> . Evaluation of response to antibiotic, residual effect of the processes and removal of resistance gene. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 102196	6.8	17
23	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> , <b>2019</b> , 161, 354-363	12.5	27
22	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> , <b>2019</b> , 670, 623-632	10.2	56
21	Degradation of seventeen contaminants of emerging concern in municipal wastewater effluents by sonochemical advanced oxidation processes. <i>Water Research</i> , <b>2019</b> , 154, 349-360	12.5	85
20	Kinetic modeling of lag times during photo-induced inactivation of <i>E. coli</i> in sunlit surface waters: Unraveling the pathways of exogenous action. <i>Water Research</i> , <b>2019</b> , 163, 114894	12.5	17
19	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> , <b>2019</b> , 58, 104635	8.9	25

18	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> , <b>2019</b> , 7, 103400	6.8	13
17	Sonochemical degradation of antibiotics from representative classes-Considerations on structural effects, initial transformation products, antimicrobial activity and matrix. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 50, 157-165	8.9	40
16	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> , <b>2018</b> , 630, 1195-1204	10.2	32
15	Removal of $\beta$ -lactam antibiotics from pharmaceutical wastewaters using photo-Fenton process at near-neutral pH. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 20293-20303	5.1	25
14	Photoinduced disinfection in sunlit natural waters: Measurement of the second order inactivation rate constants between <i>E. coli</i> and photogenerated transient species. <i>Water Research</i> , <b>2018</b> , 147, 242-253	12.5	19
13	Sonolysis <b>2018</b> , 177-213		23
12	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> , <b>2017</b> , 24, 6339-6352	5.1	40
11	Structure-reactivity relationship in the degradation of three representative fluoroquinolone antibiotics in water by electrogenerated active chlorine. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 552-561	14.7	41
10	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> , <b>2017</b> , 122, 128-138	13.5	95
9	Degradation of Recalcitrant Safranin T Through an Electrochemical Process and Three Photochemical Advanced Oxidation Technologies. <i>Water, Air, and Soil Pollution</i> , <b>2017</b> , 228, 1	2.6	5
8	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> , <b>2017</b> , 24, 23771-23782	5.1	25
7	Tratamiento de aguas contaminadas con colorantes mediante fotocatalisis con TiO <sub>2</sub> usando luz artificial y solar. <i>Produccion Y Limpia</i> , <b>2017</b> , 12, 50-60	0.1	1
6	Comparison of route, mechanism and extent of treatment for the degradation of a $\beta$ -lactam antibiotic by TiO <sub>2</sub> photocatalysis, sonochemistry, electrochemistry and the photo-Fenton system. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 953-962	14.7	75
5	High frequency ultrasound as a selective advanced oxidation process to remove penicillinic antibiotics and eliminate its antimicrobial activity from water. <i>Ultrasonics Sonochemistry</i> , <b>2016</b> , 31, 276-283	8.9	76
4	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 <sub>2</sub> -photocatalysis and electrochemical processes. <i>Science of the Total Environment</i> , <b>2016</b> , 541, 1431-1438	10.2	58
3	TiO <sub>2</sub> 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> , <b>2015</b> , 271, 25-32	4.7	36
2	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> , <b>2015</b> , 524-525, 354-60	10.2	64
1	Degradation of the antibiotic oxacillin in water by anodic oxidation with Ti/IrO <sub>2</sub> anodes: Evaluation of degradation routes, organic by-products and effects of water matrix components. <i>Chemical Engineering Journal</i> , <b>2015</b> , 279, 103-114	14.7	66

