Ricardo A Torres

List of Publications by Citations

81 papers	4,003 citations	38 h-index	62 g-index
82 ext. papers	4,470 ext. citations	8.2 avg, IF	5.74 L-index

#	Paper	IF	Citations
81	Ultrasonic treatment of water contaminated with ibuprofen. *Water Research*, **2008**, 42, 4243-8	12.5	218
80	Ultrasonic cavitation applied to the treatment of bisphenol A. Effect of sonochemical parameters and analysis of BPA by-products. *Ultrasonics Sonochemistry*, **2008**, 15, 605-611	8.9	202
79	Removal of polycyclic aromatic hydrocarbons in aqueous environment by chemical treatments: a review. *Science of the Total Environment*, **2014**, 478, 201-25	10.2	194
78	Bisphenol A mineralization by integrated ultrasound-UV-iron (II) treatment. *Environmental Science & Technology*, **2007**, 41, 297-302	10.3	163
77	Degradation of the antibiotic oxolinic acid by photocatalysis with TiO2 in suspension. *Water Research*, **2010**, 44, 5158-67	12.5	154
76	A comparative study of ultrasonic cavitation and Fentonís reagent for bisphenol A degradation in deionised and natural waters. *Journal of Hazardous Materials*, **2007**, 146, 546-51	12.8	139
75	Electrochemical degradation of p-substituted phenols of industrial interest on Pt electrodes. Attempt of a structure-reactivity relationship assessment. *Chemosphere*, **2003**, 50, 97-104	8.4	124
74	Influence of TiO2 concentration on the synergistic effect between photocatalysis and high-frequency ultrasound for organic pollutant mineralization in water. *Applied Catalysis B: Environmental*, **2008**, 80, 168-175	21.8	115
73	Enhanced sonochemical degradation of bisphenol-A by bicarbonate ions. *Ultrasonics Sonochemistry*, **2010**, 17, 111-5	8.9	100
72	Degradation of highly consumed fluoroquinolones, penicillins and cephalosporins in distilled water and simulated hospital wastewater by UV and UV/persulfate processes. *Water Research*, **2017**, 122, 128-138	12.5	95
71	Mineralization enhancement of a recalcitrant pharmaceutical pollutant in water by advanced oxidation hybrid processes. *Water Research*, **2009**, 43, 3984-91	12.5	95
70	Ultrasonic degradation of acetaminophen in water: effect of sonochemical parameters and water matrix. *Ultrasonics Sonochemistry*, **2014**, 21, 1763-9	8.9	88
69	Elimination of the antibiotic norfloxacin in municipal wastewater, urine and seawater by electrochemical oxidation on IrO anodes. *Science of the Total Environment*, **2017**, 575, 1228-1238	10.2	87
68	Effects of sonochemical parameters and inorganic ions during the sonochemical degradation of crystal violet in water. *Ultrasonics Sonochemistry*, **2011**, 18, 440-6	8.9	86
67	Degradation of seventeen contaminants of emerging concern in municipal wastewater effluents by sonochemical advanced oxidation processes. *Water Research*, **2019**, 154, 349-360	12.5	85
66	An innovative ultrasound, Fe(2+) and TiO(2) photoassisted process for bisphenol A mineralization. *Water Research*, **2010**, 44, 2245-52	12.5	80
65	Role of humic substances in the degradation pathways and residual antibacterial activity during the photodecomposition of the antibiotic ciprofloxacin in water. *Water Research*, **2016**, 94, 1-9	12.5	79

64	High frequency ultrasound as a selective advanced oxidation process to remove penicillinic antibiotics and eliminate its antimicrobial activity from water. *Ultrasonics Sonochemistry*, **2016**, 31, 276-83	8.9	76
63	Comparison of route, mechanism and extent of treatment for the degradation of a lactam antibiotic by TiO 2 photocatalysis, sonochemistry, electrochemistry and the photo-Fenton system. *Chemical Engineering Journal*, **2016**, 284, 953-962	14.7	75
62	Electrochemical degradation of crystal violet with BDD electrodes: effect of electrochemical parameters and identification of organic by-products. *Chemosphere*, **2010**, 81, 26-32	8.4	75
61	Electrochemical treatment of industrial wastewater containing 5-amino-6-methyl-2-benzimidazolone: toward an electrochemical-biological coupling. *Water Research*, **2003**, 37, 3118-24	12.5	71
60	Comparative degradation of indigo carmine by electrochemical oxidation and advanced oxidation processes. *Electrochimica Acta*, **2014**, 140, 427-433	6.7	68
59	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. *Chemical Engineering Journal*, **2015**, 279, 103-114	14.7	66
58	Sonochemical degradation of the pharmaceutical fluoxetine: Effect of parameters, organic and inorganic additives and combination with a biological system. *Science of the Total Environment*, **2015**, 524-525, 354-60	10.2	64
57	Enhancement and inhibition effects of water matrices during the sonochemical degradation of the antibiotic dicloxacillin. *Ultrasonics Sonochemistry*, **2015**, 22, 211-9	8.9	62
56	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, TiO2-photocatalysis and electrochemical processes. *Science of the Total Environment*, **2016**, 541, 1431-1438	10.2	58
55	Effective elimination of fifteen relevant pharmaceuticals in hospital wastewater from Colombia by combination of a biological system with a sonochemical process. *Science of the Total Environment*, **2019**, 670, 623-632	10.2	56
54	Solar photocatalitycal treatment of carbofuran at lab and pilot scale: effect of classical parameters, evaluation of the toxicity and analysis of organic by-products. *Journal of Hazardous Materials*, **2011**, 191, 196-203	12.8	51
53	Relationship between anode material, supporting electrolyte and current density during electrochemical degradation of organic compounds in water. *Journal of Hazardous Materials*, **2014**, 278, 221-6	12.8	49
52	Experimental design approach to the optimization of ultrasonic degradation of alachlor and enhancement of treated water biodegradability. *Ultrasonics Sonochemistry*, **2009**, 16, 425-30	8.9	47
51	Gliding Arc Discharge (GAD) assisted catalytic degradation of bisphenol A in solution with ferrous ions. *Separation and Purification Technology*, **2008**, 63, 30-37	8.3	47
50	Sequential helio-photo-Fenton and sonication processes for the treatment of bisphenol A. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 199, 197-203	4.7	42
49	Microstructural and electrochemical analysis of Sb 2 O 5 doped-Ti/RuO 2 -ZrO 2 to yield active chlorine species for ciprofloxacin degradation. *Electrochimica Acta*, **2016**, 213, 740-751	6.7	42
48	Structure-reactivity relationship in the degradation of three representative fluoroquinolone antibiotics in water by electrogenerated active chlorine. *Chemical Engineering Journal*, **2017**, 315, 552-561	14.7	41
47	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. *Environmental Science and Pollution Research*, **2017**, 24, 6339-6352	5.1	40

46	Remarkable enhancement of bacterial inactivation in wastewater through promotion of solar photo-Fenton at near-neutral pH by natural organic acids. *Applied Catalysis B: Environmental*, **2017**, 205, 219-227	21.8	40
45	Sonochemical degradation of antibiotics from representative classes-Considerations on structural effects, initial transformation products, antimicrobial activity and matrix. *Ultrasonics Sonochemistry*, **2019**, 50, 157-165	8.9	40
44	Experimental design approach applied to the elimination of crystal violet in water by electrocoagulation with Fe or Al electrodes. *Journal of Hazardous Materials*, **2010**, 179, 120-6	12.8	38
43	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. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 311, 95-103	4.7	36
42	The abatement of indigo carmine using active chlorine electrogenerated on ternary Sb2O5-doped Ti/RuO2-ZrO2 anodes in a filter-press FM01-LC reactor. *Electrochimica Acta*, **2015**, 174, 735-744	6.7	35
41	Low-frequency ultrasound induces oxygen vacancies formation and visible light absorption in TiO2 P-25 nanoparticles. *Ultrasonics Sonochemistry*, **2012**, 19, 383-6	8.9	34
40	Effective removal of the antibiotic Nafcillin from water by combining the Photoelectro-Fenton process and Anaerobic Biological Digestion. *Science of the Total Environment*, **2018**, 624, 1095-1105	10.2	33
39	Bacterial inactivation and organic oxidation via immobilized photo-Fenton reagent on structured silica surfaces. *Applied Catalysis B: Environmental*, **2008**, 84, 577-583	21.8	33
38	Selecting the best AOP for isoxazolyl penicillins degradation as a function of water characteristics: Effects of pH, chemical nature of additives and pollutant concentration. *Journal of Environmental Management*, **2017**, 190, 72-79	7.9	30
37	Removal of norfloxacin in deionized, municipal water and urine using rice (Oryza sativa) and coffee (Coffea arabica) husk wastes as natural adsorbents. *Journal of Environmental Management*, **2018**, 213, 98-108	7.9	30
36	Fe and Cu in humic acid extracts modify bacterial inactivation pathways during solar disinfection and photo-Fenton processes in water. *Applied Catalysis B: Environmental*, **2018**, 235, 75-83	21.8	30
35	Humic substances enhance chlorothalonil phototransformation via photoreduction and energy transfer. *Environmental Science & Technology*, **2014**, 48, 2218-25	10.3	30
34	Evaluation of water matrix effects, experimental parameters, and the degradation pathway during the TiO2 photocatalytical treatment of the antibiotic dicloxacillin. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2015**, 50, 40-8	2.3	28
33	Efficient cephalexin degradation using active chlorine produced on ruthenium and iridium oxide anodes: Role of bath composition, analysis of degradation pathways and degradation extent. *Science of the Total Environment*, **2019**, 648, 377-387	10.2	28
32	Photo-electro-Fenton process applied to the degradation of valsartan: Effect of parameters, identification of degradation routes and mineralization in combination with a biological system. *Journal of Environmental Chemical Engineering*, **2018**, 6, 7302-7311	6.8	28
31	Inactivation of carbapenem-resistant Klebsiella pneumoniae by photo-Fenton: Residual effect, gene evolution and modifications with citric acid and persulfate. *Water Research*, **2019**, 161, 354-363	12.5	27
30	Electrochemical advanced oxidation processes for Staphylococcus aureus disinfection in municipal WWTP effluents. *Journal of Environmental Management*, **2017**, 198, 256-265	7.9	25
29	Removal of β-lactam antibiotics from pharmaceutical wastewaters using photo-Fenton process at near-neutral pH. *Environmental Science and Pollution Research*, **2018**, 25, 20293-20303	5.1	25

28	Electrochemical treatment of penicillin, cephalosporin, and fluoroquinolone antibiotics via active chlorine: evaluation of antimicrobial activity, toxicity, matrix, and their correlation with the degradation pathways. *Environmental Science and Pollution Research*, **2017**, 24, 23771-23782	5.1	25
27	Selective removal of acetaminophen in urine with activated carbons from rice (Oryza sativa) and coffee (Coffea arabica) husk: Effect of activating agent, activation temperature and analysis of physical-chemical interactions. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103318	6.8	24
26	Role of sulfate, chloride, and nitrate anions on the degradation of fluoroquinolone antibiotics by photoelectro-Fenton. *Environmental Science and Pollution Research*, **2017**, 24, 28175-28189	5.1	22
25	Comparative Evaluation of Photo-Chemical AOPs for Ciprofoxacin Degradation: Elimination in Natural Waters and Analysis of pH Effect, Primary Degradation By-Products, and the Relationship with the Antibiotic Activity. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	20
24	The effect of different operational parameters on the electrooxidation of indigo carmine on Ti/IrO2-SnO2-Sb2O3. *Journal of Environmental Chemical Engineering*, **2018**, 6, 3010-3017	6.8	20
23	The Effects of ZrO2on the Electrocatalysis to Yield Active Chlorine Species on Sb2O5-Doped Ti/RuO2Anodes. *Journal of the Electrochemical Society*, **2016**, 163, H818-H825	3.9	19
22	Photoinduced disinfection in sunlit natural waters: Measurement of the second order inactivation rate constants between E.´coli and photogenerated transient species. *Water Research*, **2018**, 147, 242-253	12.5	19
21	Elimination of carbapenem resistant Klebsiella pneumoniae in water by UV-C, UV-C/persulfate and UV-C/H2O2. Evaluation of response to antibiotic, residual effect of the processes and removal of resistance gene. *Journal of Environmental Chemical Engineering*, **2020**, 8, 102196	6.8	17
20	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. *Environmental Science and Pollution Research*, **2020**, 27, 41381-41393	5.1	16
19	Degradation of a Toxic Mixture of the Pesticides Carbofuran and Iprodione by UV/H2O2: Evaluation of Parameters and Implications of the Degradation Pathways on the Synergistic Effects. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	15
18	Solar photo-Fenton treatment of carbofuran: analysis of mineralization, toxicity, and organic by-products. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2012**, 47, 2141-50	2.3	15
17	Bench-scale reactor for Cefadroxil oxidation and elimination of its antibiotic activity using electro-generated active chlorine. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103173	6.8	14
16	Evaluation of process influencing factors, degradation products, toxicity evolution and matrix-related effects during electro-Fenton removal of piroxicam from waters. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103400	6.8	13
15	Kinetics, Isotherms and Thermodynamic Modeling of Liquid Phase Adsorption of Crystal Violet Dye onto Shrimp-Waste in Its Raw, Pyrolyzed Material and Activated Charcoals. *Applied Sciences (Switzerland)*, **2019**, 9, 5337	2.6	12
14	Degradation of Losartan in Fresh Urine by Sonochemical and Photochemical Advanced Oxidation Processes. *Water (Switzerland)*, **2020**, 12, 3398	3	11
13	Evaluating the Removal of the Antibiotic Cephalexin from Aqueous Solutions Using an Adsorbent Obtained from Palm Oil Fiber. *Molecules*, **2021**, 26,	4.8	6
12	Degradation of Recalcitrant Safranin T Through an Electrochemical Process and Three Photochemical Advanced Oxidation Technologies. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	5
11	Dataset on application of electrochemical and photochemical processes for sulfacetamide antibiotic elimination in water. *Data in Brief*, **2020**, 29, 105158	1.2	5

10	Data on treatment of nafcillin and ampicillin antibiotics in water by sonochemistry. *Data in Brief*, **2020**, 29, 105361	1.2	4
9	Synergistic Coupling Between Electrochemical and Ultrasound Treatments for Organic Pollutant Degradation as a Function of the Electrode Material (IrO2 and BDD) and the Ultrasonic frequency (20 and 800 kHz). *International Journal of Electrochemical Science*, **2016**, 7380-7394	2.2	4
8	Dataset on the degradation of losartan by TiO-photocatalysis and UVC/persulfate processes. *Data in Brief*, **2020**, 31, 105692	1.2	3
7	Distribution of Nitrogen Ions Generated in the Electrochemical Oxidation of Nitrogen Containing Organic Compounds. *Portugaliae Electrochimica Acta*, **2009**, 27, 203-213	2.4	3
6	Improvement of solar photo-Fenton by extracts of amazonian fruits for the degradation of pharmaceuticals in municipal wastewater. *Environmental Science and Pollution Research*, **2021**, 1	5.1	2
5	Tratamiento de aguas contaminadas con colorantes mediante fotocat□sis con TiO2 usando luz artificial y solar. *Produccion Y Limpia*, **2017**, 12, 50-60	0.1	1
4	Understanding the Role of Complexation of Fluoroquinolone and □-Lactam Antibiotics with Iron (III) on the Photodegradation under Solar Light and UVC Light. *Water (Switzerland)*, **2021**, 13, 2603	3	1
3	An Initial Approach to the Presence of Pharmaceuticals in Wastewater from Hospitals in Colombia and Their Environmental Risk. *Water (Switzerland)*, **2022**, 14, 950	3	1
2	Arcillas activadas para el blanqueamiento del aceite de palma y remoci□ del colorante azul □digo carm□ del agua. *Produccion Y Limpia*, **2020**, 14, 21-29	0.1	
1	Use of CdS from Teaching-Laboratory Wastes as a Photocatalyst for the Degradation of Fluoroquinolone Antibiotics in Water. *Water (Switzerland)*, **2021**, 13, 2154	3	