Antonio Carlos Sc Teixeira

List of Publications by Year
in descending order

83 papers	1,483 citations	361296 20 h-index	377752 34 g-index
87 all docs	87 docs citations	87 times ranked	1764 citing authors

#	Article	IF	Citations
1	Environmental contamination by fluoroquinolones. Brazilian Journal of Pharmaceutical Sciences, 2014, 50, 41-54.	1.2	125
2	Photo-Fenton degradation of wastewater containing organic compounds in solar reactors. Separation and Purification Technology, 2004, 34, 51-57.	3.9	80
3	Study on the photo-Fenton degradation of polyvinyl alcohol in aqueous solution. Chemical Engineering and Processing: Process Intensification, 2006, 45, 523-532.	1.8	80
4	Correlating the chemical and spectroscopic characteristics of natural organic matter with the photodegradation of sulfamerazine. Water Research, 2016, 93, 20-29.	5.3	70
5	Deactivation of steam reforming catalysts by sintering: experiments and simulation. Chemical Engineering Science, 1999, 54, 3609-3618.	1.9	60
6	Photochemical degradation of sulfadiazine, sulfamerazine and sulfamethazine: Relevance of concentration and heterocyclic aromatic groups to degradation kinetics. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 286, 40-46.	2.0	59
7	Bio-based substances from urban waste as auxiliaries for solar photo-Fenton treatment under mild conditions: Optimization of operational variables. Catalysis Today, 2015, 240, 39-45.	2.2	42
8	Degradation of Poly(ethylene glycol) in Aqueous Solution by Photo-Fenton and H2O2/UV Processes. Industrial & Engineering Chemistry Research, 2010, 49, 3200-3206.	1.8	40
9	Ultrasonic degradation of sulfadiazine in aqueous solutions. Environmental Science and Pollution Research, 2015, 22, 918-925.	2.7	40
10	Photochemical insights of TiO2 decorated mesoporous SBA-15 materials and their influence on the photodegradation of organic contaminants. Microporous and Mesoporous Materials, 2017, 253, 203-214.	2.2	40
11	Degradation and acute toxicity removal of the antidepressant Fluoxetine (ProzacÂ®) in aqueous systems by electron beam irradiation. Environmental Science and Pollution Research, 2016, 23, 11927-11936.	2.7	37
12	Amicarbazone degradation promoted by ZVI-activated persulfate: study of relevant variables for practical application. Environmental Science and Pollution Research, 2018, 25, 5474-5483.	2.7	37
13	Photo-Fenton removal of water-soluble polymers. Chemical Engineering and Processing: Process Intensification, 2008, 47, 2361-2369.	1.8	33
14	Amicarbazone degradation by UVA-activated persulfate in the presence of hydrogen peroxide or Fe 2+. Catalysis Today, 2017, 280, 80-85.	2.2	33
15	Direct and indirect photolysis of the antibiotic enoxacin: kinetics of oxidation by reactive photo-induced species and simulations. Environmental Science and Pollution Research, 2019, 26, 4337-4347.	2.7	30
16	The role of reactive oxygen species in sulfamethazine degradation using UV-based technologies and products identification. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 290, 77-85.	2.0	27
17	An overview on surfactants as pollutants of concern: Occurrence, impacts and persulfate-based remediation technologies. Chemosphere, 2022, 300, 134507.	4.2	26
18	Degradation of diclofenac by electron beam irradiaton: Toxicitiy removal, by-products identification and effect of another pharmaceutical compound. Journal of Environmental Chemical Engineering, 2018, 6, 4605-4611.	3.3	25

#	Article	IF	Citations
19	Comparison between UVA- and zero-valent iron-activated persulfate processes for degrading propylparaben. Environmental Science and Pollution Research, 2020, 27, 22214-22224.	2.7	25
20	Industrial Wastewater Treatment by Photochemical Processes Based on Solar Energy. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 45-52.	1.1	22
21	Role of Fe(III)-carboxylates in AMZ photodegradation: A response surface study based on a Doehlert experimental design. Chemosphere, 2017, 184, 981-991.	4.2	22
22	Photochemical Fate of Amicarbazone in Aqueous Media: Laboratory Measurement and Simulations. Environmental Engineering Science, 2015, 32, 730-740.	0.8	21
23	Removal of sulfadiazine from simulated industrial wastewater by a membrane bioreactor and ozonation. Journal of Environmental Management, 2020, 271, 111040.	3.8	21
24	Photolysis of atrazine in aqueous solution: role of process variables and reactive oxygen species. Environmental Science and Pollution Research, 2014, 21, 12135-12142.	2.7	20
25	UV-Hydrogen Peroxide Processes. , 2018, , 13-48.		20
26	Degradation of an aminosilicone polymer in a water emulsion by the Fenton and the photochemically enhanced Fenton reactions. Chemical Engineering and Processing: Process Intensification, 2005, 44, 923-931.	1.8	19
27	Optimization of radiolytic degradation of sulfadiazine by combining Fenton and gamma irradiation processes. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 2597-2607.	0.7	19
28	Functionalized mesoporous silicas SBA-15 for heterogeneous photocatalysis towards CECs removal from secondary urban wastewater. Chemosphere, 2022, 287, 132023.	4.2	19
29	Solar Photochemical Degradation of Aminosilicones Contained in Liquid Effluents. Process Studies and Neural Network Modeling. Industrial & Engineering Chemistry Research, 2003, 42, 5751-5761.	1.8	17
30	Photo-fenton remediation of wastewaters containing agrochemicals. Brazilian Archives of Biology and Technology, 2005, 48, 207-218.	0.5	17
31	Degradation of amicarbazone herbicide by photochemical processes. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 275, 54-64.	2.0	16
32	Anoxic degradation of chlorpyrifos by zerovalent monometallic and bimetallic particles in solution. Chemosphere, 2020, 244, 125461.	4.2	16
33	Use of solar energy in the treatment of water contaminated with phenol by photochemical processes. Brazilian Journal of Chemical Engineering, 2008, 25, 671-682.	0.7	15
34	Aqueous picloram degradation by hydroxyl radicals: Unveiling mechanism, kinetics, and ecotoxicity through experimental and theoretical approaches. Chemosphere, 2021, 278, 130401.	4.2	15
35	Feasibility Study of a Solar Reactor for Phenol Treatment by the Photoâ€Fenton process in Aqueous Solution. Chemical Engineering and Technology, 2012, 35, 2125-2132.	0.9	14
36	Synthesis of Novel Periodic Mesoporous Organosilicas Containing 1,4,5,8-Naphthalenediimides within the Pore Walls and Their Reduction To Generate Wall-Embedded Free Radicals. Langmuir, 2018, 34, 8195-8204.	1.6	14

#	Article	IF	Citations
37	Study of an Annular Photoreactor with Tangential Inlet and Outlet: I.â€‰Fluid Dynamics. Chemical Engineering and Technology, 2015, 38, 311-318.	0.9	12
38	Degradation of bisphenol A by the UV and UV/H₂O₂ processes: Evaluation of process variables through experimental design. Canadian Journal of Chemical Engineering, 2017, 95, 2278-2285.	0.9	12
39	Environmental photochemical fate and UVC degradation of sodium levothyroxine in aqueous medium. Environmental Science and Pollution Research, 2019, 26, 4393-4403.	2.7	11
40	Photochemical persistence of sulfa drugs in aqueous medium: kinetic study and mathematical simulations. Environmental Science and Pollution Research, 2021, 28, 23887-23895.	2.7	11
41	Development of intensified flat-plate packed-bed solar reactors for heterogeneous photocatalysis. Environmental Science and Pollution Research, 2021, 28, 24023-24033.	2.7	11
42	Degradation of pesticides present in tomato rinse water by direct photolysis and UVC/H2O2: optimization of process conditions through sequential Doehlert design. Environmental Science and Pollution Research, 2021, 28, 24191-24205.	2.7	11
43	Photochemical generation of reactive intermediates from urban-waste bio-organic substances under UV and solar irradiation. Environmental Science and Pollution Research, 2017, 24, 18470-18478.	2.7	10
44	A comparison between the four Geldart groups on the performance of a gas-phase annular fluidized bed photoreactor for volatile organic compound oxidation. Environmental Science and Pollution Research, 2019, 26, 4242-4252.	2.7	10
45	Photo-Fenton reaction at mildly acidic conditions: assessing the effect of bio-organic substances of different origin and characteristics through experimental design. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 711-720.	0.9	10
46	Photo-Fenton Remediation of Wastewaters Containing Silicones: Experimental Study and Neural Network Modeling. Chemical Engineering and Technology, 2004, 27, 800-810.	0.9	9
47	Treatment of Aqueous Effluents Containing Phenol by the O₃, O₃-UV, and O₃-H₂O₂Processes: Experimental Study and Neural Network Modeling. Separation Science and Technology, 2010, 45, 1521-1528.	1.3	9
48	Sugarcane Juice Clarification by Hydrogen Peroxide: Predictions with Artificial Neural Networks. International Journal of Food Engineering, 2017, 13, .	0.7	9
49	UVA/persulfate-driven nonylphenol polyethoxylate degradation: effect of process conditions. Environmental Technology (United Kingdom), 2022, 43, 286-300.	1.2	9
50	Is ionizing radiation effective in removing pharmaceuticals from wastewater?. Environmental Science and Pollution Research, 2021, 28, 23975-23983.	2.7	9
51	Estimating reaction constants by ab initio molecular modeling: a study on the oxidation of phenol to catechol and hydroquinone in advanced oxidation processes. Brazilian Journal of Chemical Engineering, 2012, 29, 113-120.	0.7	8
52	Nonâ€traditional atrazine degradation induced by zeroâ€valentâ€copper: process optimization by the Doehlert experimental design, intermediates detection and toxicity assessment. Journal of Chemical Technology and Biotechnology, 2019, 94, 1156-1164.	1.6	8
53	Effect of HCl and HNO3 on the synthesis of pure and silver-based WO3 for improved photocatalytic activity under sunlight. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 422, 113550.	2.0	8
54	Micro-structured packed bed reactors for solar photocatalysis: impacts of packing size and material on light harnessing. Photochemical and Photobiological Sciences, 2019, 18, 577-582.	1.6	7

#	Article	IF	Citations
55	Insights into the reactivity of zero-valent-copper-containing materials as reducing agents of 2,4,6-trichlorophenol in a recirculating packed-column system: Degradation mechanism and toxicity evaluation. Chemical Engineering Research and Design, 2019, 127, 348-358.	2.7	7
56	Enhancing the visible-light photoactivity of silica-supported TiO2 for the photocatalytic treatment of pharmaceuticals in water. Environmental Science and Pollution Research, 2022, 29, 42215-42230.	2.7	7
57	Environmental photochemical fate of pesticides ametryn and imidacloprid in surface water (Paranapanema River, SÃ£o Paulo, Brazil). Environmental Science and Pollution Research, 2022, 29, 42290-42304.	2.7	7
58	Degradation of Phenolic Compounds in Aqueous Sucrose Solutions by Ozonation. Ozone: Science and Engineering, 2017, 39, 255-263.	1.4	6
59	Degradation of 2,4,6-trichlorophenol in aqueous systems through the association of zero-valent-copper-mediated reduction and UVC/H2O2: effect of water matrix and toxicity assessment. Environmental Science and Pollution Research, 2021, 28, 24057-24066.	2.7	6
60	Dodecylpyridinium chloride removal by persulfate activation using UVA radiation or temperature: experimental design and kinetic modeling. Environmental Science and Pollution Research, 2021, 28, 68229-68243.	2.7	6
61	A Monte Carlo model for the sintering of Ni/Al2O3 catalysts. Chemical Engineering Science, 2001, 56, 789-798.	1.9	5
62	Synthesis of TiO2 microspheres by ultrasonic spray pyrolysis and photocatalytic activity evaluation. Ceramics International, 2022, 48, 9739-9745.	2.3	5
63	Study of an Annular Photoreactor withÂTangential Inlet and Outlet. II. The UV/H₂O₂ Reactive Flow. Chemical Engineering and Technology, 2019, 42, 316-326.	0.9	4
64	Degradation of bisphenol A by the UV/H2O2 process: a kinetic study. Environmental Science and Pollution Research, 2020, 27, 7299-7308.	2.7	4
65	Photocatalytic degradation of n-hexane in a circulating fluidized bed: An investigation based on the freeboard entrainment model. Catalysis Today, 2021, 361, 109-116.	2.2	4
66	KINETIC MODELING AND EXPERIMENTAL VALIDATION OF A PHOTOCATALYTIC FLUIDIZED BED REACTOR FOR n-HEXANE DEGRADATION. Brazilian Journal of Chemical Engineering, 2019, 36, 1561-1570.	0.7	4
67	Complete wastewater discoloration by a novel peroxidase source with promising bioxidative properties. Journal of Chemical Technology and Biotechnology, 2022, 97, 2613-2625.	1.6	4
68	Estudo da caracterizaÃ§Ã£o da borra de petrÃ³leo e processo de extraÃ§Ã£o do Ã³leo. Engenharia Sanitaria E Ambiental, 2016, 21, 265-274.	0.1	3
69	One-step procedure for peroxidase concentration, dye separation, and color removal by aqueous two-phase system. Environmental Science and Pollution Research, 2021, 28, 9097-9106.	2.7	3
70	UVC- and UVC/H₂O₂-Driven nonribosomal peptide antibiotics degradation: application to zinc bacitracin as a complex emerging contaminant. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2021, 56, 97-112.	0.9	3
71	Optimization of TiO2/SiO2 photocatalysts in a LED-irradiated gas-solid photoreactor for air treatment. Chemical Engineering Research and Design, 2022, 185, 223-238.	2.7	3
72	Molecular-Scale Modeling of the Degradation of Phenol in Advanced Oxidation Processes Reaction Media. Computer Aided Chemical Engineering, 2009, , 285-290.	0.3	2

#	Article	IF	Citations
73	Photodegradation of Enrofloxacin by the Photo-Fenton-Like Reaction Using UVA-Irradiated Iron(III)-Tartrate as a Source of Iron(II). Journal of Environmental Engineering, ASCE, 2020, 146, 04020132.	0.7	2
74	Sunlight-driven environmental photodegradation of 2-chlorobiphenyl (PCB-1) in surface waters: kinetic study and mathematical simulations. Environmental Science and Pollution Research, 2022, 29, 42231-42241.	2.7	2
75	Radiolytic degradation of levonorgestrel and gestodene: Performance and bioassays. Chemical Engineering Research and Design, 2022, 162, 520-530.	2.7	2
76	Photocatalytic Degradation of Phenol in Water by the Photo-Fenton Process. Chemie-Ingenieur-Technik, 2001, 73, 674-674.	0.4	1
77	Degradation of thiophanate-methyl fungicide by photo-Fenton process using lab-scale annular and solar tubular reactors. International Journal of Environmental Technology and Management, 2019, 22, 128.	0.1	1
78	A comprehensive dynamic kinetic model for the UVC/H2O2 process: application to zinc bacitracin degradation in wastewater as a case study. Environmental Science and Pollution Research, 2021, 28, 24150-24166.	2.7	1
79	Clarification of Sugarcane Juice by Ozonation and Anodic Electrooxidation: Effects of Process Variables and Energy Consumption. Sugar Tech, 2021, 23, 1183-1191.	0.9	1
80	Preliminary studies on electron beam irradiation as a treatment method of radioactive oil sludge. Brazilian Journal of Radiation Sciences, 2021, 9, .	0.0	0
81	Influence of low and high dosages of methyl and propyl parabens on membrane bioreactor (MBR) performance. Separation Science and Technology, 0, , 1-11.	1.3	0
82	FLUIDDYNAMIC ASPECTS OF GAS-PHASE ETHYLENE POLYMERIZATION REACTOR DESIGN. Brazilian Journal of Chemical Engineering, 1998, 15, 281-294.	0.7	0
83	DEGRADAÃ‡ÃƒO DE ENROFLOXACINA PELO PROCESSO FOTO-FENTON-LIKE UTILIZANDO COMPLEXO DE Fe(III)-TARTARATO COMO FONTE DE Fe (II). , 0, , .		0