Antonio Carlos Sc Teixeira

List of Publications by Year
in descending order

83 papers	1,483 citations	361045 20 h-index	377514 34 g-index
87 all docs	87 docs citations	87 times ranked	1764 citing authors

#	Article	IF	Citations
1	UVA/persulfate-driven nonylphenol polyethoxylate degradation: effect of process conditions. Environmental Technology (United Kingdom), 2022, 43, 286-300.	1.2	9
2	Functionalized mesoporous silicas SBA-15 for heterogeneous photocatalysis towards CECs removal from secondary urban wastewater. Chemosphere, 2022, 287, 132023.	4.2	19
3	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
4	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
5	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
6	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
7	Synthesis of TiO2 microspheres by ultrasonic spray pyrolysis and photocatalytic activity evaluation. Ceramics International, 2022, 48, 9739-9745.	2.3	5
8	An overview on surfactants as pollutants of concern: Occurrence, impacts and persulfate-based remediation technologies. Chemosphere, 2022, 300, 134507.	4.2	26
9	Radiolytic degradation of levonorgestrel and gestodene: Performance and bioassays. Chemical Engineering Research and Design, 2022, 162, 520-530.	2.7	2
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	Development of intensified flat-plate packed-bed solar reactors for heterogeneous photocatalysis. Environmental Science and Pollution Research, 2021, 28, 24023-24033.	2.7	11

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19	Is ionizing radiation effective in removing pharmaceuticals from wastewater?. Environmental Science and Pollution Research, 2021, 28, 23975-23983.	2.7	9
20	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
21	Preliminary studies on electron beam irradiation as a treatment method of radioactive oil sludge. Brazilian Journal of Radiation Sciences, 2021, 9, .	0.0	0
22	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
23	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
24	Aqueous picloram degradation by hydroxyl radicals: Unveiling mechanism, kinetics, and ecotoxicity through experimental and theoretical approaches. Chemosphere, 2021, 278, 130401.	4.2	15
25	Degradation of bisphenol A by the UV/H2O2 process: a kinetic study. Environmental Science and Pollution Research, 2020, 27, 7299-7308.	2.7	4
26	Anoxic degradation of chlorpyrifos by zerovalent monometallic and bimetallic particles in solution. Chemosphere, 2020, 244, 125461.	4.2	16
27	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
28	Removal of sulfadiazine from simulated industrial wastewater by a membrane bioreactor and ozonation. Journal of Environmental Management, 2020, 271, 111040.	3.8	21
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	Environmental photochemical fate and UVC degradation of sodium levothyroxine in aqueous medium. Environmental Science and Pollution Research, 2019, 26, 4393-4403.	2.7	11

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37	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
38	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
39	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
40	UV-Hydrogen Peroxide Processes. , 2018, , 13-48.		20
41	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
42	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
43	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
44	Amicarbazone degradation by UVA-activated persulfate in the presence of hydrogen peroxide or Fe 2+. Catalysis Today, 2017, 280, 80-85.	2.2	33
45	Sugarcane Juice Clarification by Hydrogen Peroxide: Predictions with Artificial Neural Networks. International Journal of Food Engineering, 2017, 13, .	0.7	9
46	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
47	Degradation of Phenolic Compounds in Aqueous Sucrose Solutions by Ozonation. Ozone: Science and Engineering, 2017, 39, 255-263.	1.4	6
48	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
49	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
50	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
51	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
52	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
53	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
54	Correlating the chemical and spectroscopic characteristics of natural organic matter with the photodegradation of sulfamerazine. Water Research, 2016, 93, 20-29.	5.3	70

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55	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
56	Photochemical Fate of Amicarbazone in Aqueous Media: Laboratory Measurement and Simulations. Environmental Engineering Science, 2015, 32, 730-740.	0.8	21
57	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
58	Ultrasonic degradation of sulfadiazine in aqueous solutions. Environmental Science and Pollution Research, 2015, 22, 918-925.	2.7	40
59	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
60	Degradation of amicarbazone herbicide by photochemical processes. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 275, 54-64.	2.0	16
61	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
62	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
63	Environmental contamination by fluoroquinolones. Brazilian Journal of Pharmaceutical Sciences, 2014, 50, 41-54.	1.2	125
64	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
65	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
66	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
67	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
68	Molecular-Scale Modeling of the Degradation of Phenol in Advanced Oxidation Processes Reaction Media. Computer Aided Chemical Engineering, 2009, , 285-290.	0.3	2
69	Photo-Fenton removal of water-soluble polymers. Chemical Engineering and Processing: Process Intensification, 2008, 47, 2361-2369.	1.8	33
70	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
71	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
72	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

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73	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
74	Photo-fenton remediation of wastewaters containing agrochemicals. Brazilian Archives of Biology and Technology, 2005, 48, 207-218.	0.5	17
75	Photo-Fenton degradation of wastewater containing organic compounds in solar reactors. Separation and Purification Technology, 2004, 34, 51-57.	3.9	80
76	Photo-Fenton Remediation of Wastewaters Containing Silicones: Experimental Study and Neural Network Modeling. Chemical Engineering and Technology, 2004, 27, 800-810.	0.9	9
77	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
78	Photocatalytic Degradation of Phenol in Water by the Photo-Fenton Process. Chemie-Ingenieur-Technik, 2001, 73, 674-674.	0.4	1
79	A Monte Carlo model for the sintering of Ni/Al2O3 catalysts. Chemical Engineering Science, 2001, 56, 789-798.	1.9	5
80	Deactivation of steam reforming catalysts by sintering: experiments and simulation. Chemical Engineering Science, 1999, 54, 3609-3618.	1.9	60
81	FLUIDDYNAMIC ASPECTS OF GAS-PHASE ETHYLENE POLYMERIZATION REACTOR DESIGN. Brazilian Journal of Chemical Engineering, 1998, 15, 281-294.	0.7	0
82	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
83	DEGRADAÃ‡ÃƒO DE ENROFLOXACINA PELO PROCESSO FOTO-FENTON-LIKE UTILIZANDO COMPLEXO DE Fe(III)-TARTARATO COMO FONTE DE Fe (II). , 0, , .		0