

Antonio DurÃ¡n Segovia

List of Publications by Year in descending order

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75
papers

2,540
citations

159358

30
h-index

214527

47
g-index

75
all docs

75
docs citations

75
times ranked

2736
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ chemical oxidation of carbamazepine solutions using persulfate simultaneously activated by heat energy, UV light, Fe ²⁺ ions, and H ₂ O ₂ . <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 120-129.	10.8	227
2	Sono-activated persulfate oxidation of diclofenac: Degradation, kinetics, pathway and contribution of the different radicals involved. <i>Journal of Hazardous Materials</i> , 2018, 357, 457-465.	6.5	154
3	Effect of sodium persulfate as electron acceptor on antipyrine degradation by solar TiO ₂ or TiO ₂ /rGO photocatalysis. <i>Chemical Engineering Journal</i> , 2019, 364, 257-268.	6.6	97
4	Homogeneous ferrioxalate-assisted solar photo-Fenton degradation of Orange II aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2008, 83, 46-55.	10.8	90
5	Environmental sustainability of the solar photo-Fenton process for wastewater treatment and pharmaceuticals mineralization at semi-industrial scale. <i>Science of the Total Environment</i> , 2018, 612, 605-612.	3.9	84
6	Degradation kinetics of p-nitrophenol ozonation in water. <i>Water Research</i> , 1992, 26, 9-17.	5.3	77
7	Modeling diesel particulate emissions with neural networks. <i>Fuel</i> , 2001, 80, 539-548.	3.4	65
8	Effect of continuous addition of H ₂ O ₂ and air injection on ferrioxalate-assisted solar photo-Fenton degradation of Orange II. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 510-518.	10.8	61
9	Photo-Fenton mineralization of synthetic municipal wastewater effluent containing acetaminophen in a pilot plant. <i>Desalination</i> , 2011, 270, 124-129.	4.0	61
10	Neural networks simulation of photo-Fenton degradation of Reactive Blue 4. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 127-134.	10.8	60
11	Degradation and mineralization of antipyrine by UV-A LED photo-Fenton reaction intensified by ferrioxalate with addition of persulfate. <i>Separation and Purification Technology</i> , 2017, 172, 227-235.	3.9	58
12	Catalytic degradation of Orange II in a ferrioxalate-assisted photo-Fenton process using a combined UV-A/“solar pilot-plant system. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 120-129.	10.8	54
13	Optimization of the mineralization of a mixture of phenolic pollutants under a ferrioxalate-induced solar photo-Fenton process. <i>Journal of Hazardous Materials</i> , 2011, 185, 131-139.	6.5	50
14	Application of activated persulfate for removal of intermediates from antipyrine wastewater degradation refractory towards hydroxyl radical. <i>Journal of Hazardous Materials</i> , 2016, 306, 77-86.	6.5	49
15	Operation costs of the solar photo-catalytic degradation of pharmaceuticals in water: A mini-review. <i>Chemosphere</i> , 2018, 211, 482-488.	4.2	48
16	Photodegradation of Reactive Blue 4 solutions under ferrioxalate-assisted UV/solar photo-Fenton system with continuous addition of H ₂ O ₂ and air injection. <i>Chemical Engineering Journal</i> , 2010, 162, 702-709.	6.6	47
17	Ferrioxalate-induced solar photo-Fenton system for the treatment of winery wastewaters. <i>Chemical Engineering Journal</i> , 2012, 181-182, 281-288.	6.6	47
18	Ultrasound-assisted homogeneous photocatalytic degradation of Reactive Blue 4 in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 59-67.	10.8	47

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19	Solar photo-Fenton degradation of Reactive Blue 4 in a CPC reactor. <i>Applied Catalysis B: Environmental</i> , 2008, 80, 42-50.	10.8	46
20	Study of the intensification of solar photo-Fenton degradation of carbamazepine with ferrioxalate complexes and ultrasound. <i>Journal of Hazardous Materials</i> , 2018, 342, 597-605.	6.5	45
21	Effect of reduced graphene oxide load into TiO ₂ P25 on the generation of reactive oxygen species in a solar photocatalytic reactor. Application to antipyrine degradation. <i>Chemical Engineering Journal</i> , 2020, 380, 122410.	6.6	45
22	Optimization of pharmaceutical wastewater treatment by solar/ferrioxalate photo-catalysis. <i>Journal of Environmental Management</i> , 2013, 128, 210-219.	3.8	42
23	Sonophotocatalytic mineralization of antipyrine in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 318-325.	10.8	40
24	Composition and size of diesel particulate emissions from a commercial European engine tested with present and future fuels. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2003, 217, 907-919.	1.1	37
25	Fresnel lens to concentrate solar energy for the photocatalytic decoloration and mineralization of orange II in aqueous solution. <i>Chemosphere</i> , 2006, 65, 1242-1248.	4.2	37
26	Solar photocatalytic degradation of reactive blue 4 using a Fresnel lens. <i>Water Research</i> , 2007, 41, 690-698.	5.3	37
27	Improving deactivation behaviour of HZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2001, 206, 87-93.	2.2	36
28	Photo-Fenton-assisted ozonation of p-Coumaric acid in aqueous solution. <i>Chemosphere</i> , 2005, 60, 1103-1110.	4.2	36
29	The role of sodium montmorillonite on bounded zeolite-type catalysts. <i>Applied Clay Science</i> , 2000, 16, 273-287.	2.6	35
30	Effect of light source on the catalytic degradation of protocatechuic acid in a ferrioxalate-assisted photo-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 486-495.	10.8	31
31	Photocatalytic degradation of aniline by solar/TiO ₂ system in the presence of the electron acceptors Na ₂ S ₂ O ₈ and H ₂ O ₂ . <i>Separation and Purification Technology</i> , 2020, 238, 116456.	3.9	31
32	Antipyrine removal by TiO ₂ photocatalysis based on spinning disc reactor technology. <i>Journal of Environmental Management</i> , 2017, 187, 504-512.	3.8	30
33	Neural networks estimation of diesel particulate matter composition from transesterified waste oils blends. <i>Fuel</i> , 2005, 84, 2080-2085.	3.4	29
34	Photo-fenton degradation of a beverage industrial effluent: Intensification with persulfate and the study of radicals. <i>Chemical Engineering Journal</i> , 2016, 306, 1203-1211.	6.6	28
35	Dynamic behavior of hydroxyl radical in sono-photo-Fenton mineralization of synthetic municipal wastewater effluent containing antipyrine. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 185-195.	3.8	27
36	Mineralization of wastewater from the pharmaceutical industry containing chloride ions by UV photolysis of H ₂ O ₂ /Fe(II) and ultrasonic irradiation. <i>Journal of Environmental Management</i> , 2014, 141, 61-69.	3.8	25

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37	Solar photo-degradation of aniline with rGO/TiO ₂ composites and persulfate. <i>Science of the Total Environment</i> , 2019, 697, 134086.	3.9	25
38	Photocatalytic treatment of an industrial effluent using artificial and solar UV radiation: An operational cost study on a pilot plant scale. <i>Journal of Environmental Management</i> , 2012, 98, 1-4.	3.8	24
39	Solar-photo-Fenton treatment of wastewater from the beverage industry: Intensification with ferrioxalate. <i>Chemical Engineering Journal</i> , 2015, 270, 612-620.	6.6	24
40	Modeling the sonophoto-degradation/mineralization of carbamazepine in aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 284, 503-512.	6.6	24
41	A novel combined solar pasteurizer/TiO ₂ continuous-flow reactor for decontamination and disinfection of drinking water. <i>Chemosphere</i> , 2017, 168, 1447-1456.	4.2	24
42	Simulation of atmospheric PAH emissions from diesel engines. <i>Chemosphere</i> , 2001, 44, 921-924.	4.2	23
43	Mineralization of aniline using hydroxyl/sulfate radical-based technology in a waterfall reactor. <i>Chemosphere</i> , 2017, 186, 177-184.	4.2	22
44	Characterization of Soluble Organic Fraction in DPM: Optimization of the Extraction Method. , 1999, , .		21
45	Accuracy of the European Standard Method to measure the amount of DPM emitted to the atmosphere. <i>Fuel</i> , 2002, 81, 2053-2060.	3.4	21
46	Influence of Mini-tunnel Operating Parameters and Ambient Conditions on Diesel Particulate Measurement and Analysis. , 1999, , .		20
47	Photocatalytic degradation of aniline using an autonomous rotating drum reactor with both solar and UV-C artificial radiation. <i>Journal of Environmental Management</i> , 2018, 210, 122-130.	3.8	20
48	Roles of different intermediate active species in the mineralization reactions of phenolic pollutants under a UV-A/C photo-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 242-242.	10.8	19
49	Homogeneous sonophotolysis of food processing industry wastewater: Study of synergistic effects, mineralization and toxicity removal. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 785-791.	3.8	19
50	Sono-photo-degradation of carbamazepine in a thin falling film reactor: Operation costs in pilot plant. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 496-503.	3.8	19
51	Solar activation of TiO ₂ intensified with graphene for degradation of Bisphenol-A in water. <i>Solar Energy</i> , 2018, 174, 1035-1043.	2.9	19
52	Decontamination of industrial cyanide-containing water in a solar CPC pilot plant. <i>Solar Energy</i> , 2010, 84, 1193-1200.	2.9	18
53	Modelling soot and SOF emissions from a diesel engine. <i>Chemosphere</i> , 2004, 56, 209-225.	4.2	16
54	Scrubbing effect on diesel particulate matter from transesterified waste oils blends. <i>Fuel</i> , 2006, 85, 923-928.	3.4	16

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55	Solar photo-Fenton mineralization of antipyrine in aqueous solution. <i>Journal of Environmental Management</i> , 2013, 130, 64-71.	3.8	16
56	Solar TiO ₂ -assisted photocatalytic degradation of IGCC power station effluents using a Fresnel lens. <i>Chemosphere</i> , 2008, 71, 161-167.	4.2	14
57	Solar photodegradation of antipyrine in a synthetic WWTP effluent in a semi-industrial installation. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 215-222.	3.0	13
58	Photo-Fenton mineralization of synthetic apple-juice wastewater. <i>Chemical Engineering Journal</i> , 2011, 168, 102-107.	6.6	12
59	Solar photo-degradation of a pharmaceutical wastewater effluent in a semi-industrial autonomous plant. <i>Chemosphere</i> , 2016, 150, 254-257.	4.2	12
60	Elimination of inorganic mercury from waste waters using crandallite-type compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 399-405.	1.6	11
61	Treatment of IGCC power station effluents by physico-chemical and advanced oxidation processes. <i>Journal of Environmental Management</i> , 2009, 90, 1370-1376.	3.8	10
62	Photocatalytic treatment of IGCC power station effluents in a UV-pilot plant. <i>Journal of Hazardous Materials</i> , 2009, 167, 885-891.	6.5	10
63	Photocatalytic degradation of pollutants from Elcogas IGCC power station effluents. <i>Journal of Hazardous Materials</i> , 2007, 144, 132-139.	6.5	8
64	Solar photodegradation of synthetic apple juice wastewater: Process optimization and operational cost study. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 307-315.	3.0	8
65	Development of a suspension copolymerization process for bone cement production. <i>Journal of Applied Polymer Science</i> , 2000, 76, 814-823.	1.3	7
66	Simulation of diesel particulate matter size. <i>Atmospheric Environment</i> , 2004, 38, 6203-6209.	1.9	7
67	Treatment of aqueous solutions containing nickel using crandallite-type compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 262-267.	1.6	6
68	Capture of ambient air CO ₂ from municipal wastewater mineralization by using an ion-exchange membrane. <i>Science of the Total Environment</i> , 2021, 790, 148136.	3.9	5
69	An easy correlation to determine soluble and insoluble fractions in diesel particulate matter. <i>Fuel</i> , 2003, 82, 2173-2178.	3.4	4
70	Competitive diesel engine emissions of sulphur and nitrogen species. <i>Chemosphere</i> , 2003, 52, 1819-1823.	4.2	4
71	Removal of Acetic Acid by Adsorption from an Ethylene Recycle Stream in the Ethylene-Vinyl Acetate Copolymerization Process. <i>Separation Science and Technology</i> , 1999, 34, 525-543.	1.3	3
72	Ion-Exchange Calculations Using Spreadsheets. <i>The Chemical Educator</i> , 1999, 4, 231-237.	0.0	1

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73	Assembly of a Thin-Falling-Film Exchanger for Laboratory Demonstrations: Calculation of the Individual Heat-Transfer Coefficient. <i>The Chemical Educator</i> , 2001, 6, 15-20.	0.0	1
74	UV/solar photo-degradation of furaltadone in homogeneous and heterogeneous phases: Intensification with persulfate. <i>Journal of Environmental Management</i> , 2022, 319, 115712.	3.8	1
75	Mineralization of integrated gasification combined-cycle power-station wastewater effluent by a photo-fenton process. <i>Journal of Environmental Management</i> , 2010, 91, 1840-1846.	3.8	0