

Manuel Ignacio Maldonado

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75
papers

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43
h-index

75
g-index

75
ext. papers

7,598
ext. citations

9.8
avg, IF

5.63
L-index

#	Paper	IF	Citations
75	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , 2009 , 147, 1-59	5.3	2187
74	Degradation of fifteen emerging contaminants at microg L(-1) initial concentrations by mild solar photo-Fenton in MWTP effluents. <i>Water Research</i> , 2010 , 44, 545-54	12.5	264
73	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , 2007 , 122, 137-149	5.3	215
72	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , 2003 , 75, 329-336	6.8	212
71	Mature landfill leachate treatment by coagulation/flocculation combined with Fenton and solar photo-Fenton processes. <i>Journal of Hazardous Materials</i> , 2015 , 286, 261-8	12.8	181
70	Enhancement of the rate of solar photocatalytic mineralization of organic pollutants by inorganic oxidizing species. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 347-356	21.8	181
69	Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. <i>Applied Catalysis B: Environmental</i> , 2003 , 46, 319-332	21.8	163
68	Solar photocatalytic degradation of some hazardous water-soluble pesticides at pilot-plant scale. <i>Journal of Hazardous Materials</i> , 2006 , 138, 507-17	12.8	157
67	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1437-1445	16.2	145
66	Pilot-plant treatment of olive mill wastewater (OMW) by solar TiO ₂ photocatalysis and solar photo-Fenton. <i>Solar Energy</i> , 2004 , 77, 567-572	6.8	144
65	Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale. <i>Catalysis Today</i> , 2005 , 101, 219-226	5.3	125
64	Solar photocatalytic degradation and detoxification of EU priority substances. <i>Catalysis Today</i> , 2005 , 101, 203-210	5.3	123
63	Decontamination and disinfection of water by solar photocatalysis: The pilot plants of the Plataforma Solar de Almeria. <i>Materials Science in Semiconductor Processing</i> , 2016 , 42, 15-23	4.3	117
62	Degradation of pesticides in water using solar advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 272-281	21.8	114
61	Degradation of emerging contaminants at low concentrations in MWTPs effluents with mild solar photo-Fenton and TiO ₂ . <i>Catalysis Today</i> , 2009 , 144, 124-130	5.3	113
60	Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. <i>Water Research</i> , 2006 , 40, 1086-94	12.5	112
59	In situ electrochemical and photo-electrochemical generation of the fenton reagent: a potentially important new water treatment technology. <i>Water Research</i> , 2006 , 40, 1754-62	12.5	112

58	Optimising solar photocatalytic mineralisation of pesticides by adding inorganic oxidising species; application to the recycling of pesticide containers. <i>Applied Catalysis B: Environmental</i> , 2000 , 28, 163-174	21.8	105
57	Comparison of hydrogen peroxide-based processes for treating dye-containing wastewater: Decolorization and destruction of Orange II azo dye in dilute solution. <i>Dyes and Pigments</i> , 2008 , 76, 656-662	4.6	96
56	Detoxification of wastewater containing five common pesticides by solar AOPs/Biological coupled system. <i>Catalysis Today</i> , 2007 , 129, 69-78	5.3	91
55	Solar photo-Fenton treatment of pesticides in water: Effect of iron concentration on degradation and assessment of ecotoxicity and biodegradability. <i>Applied Catalysis B: Environmental</i> , 2009 , 88, 448-454	21.8	90
54	Evaluation of operational parameters involved in solar photo-Fenton degradation of a commercial pesticide mixture. <i>Catalysis Today</i> , 2009 , 144, 94-99	5.3	83
53	Photocatalytic degradation of EU priority substances: A comparison between TiO ₂ and Fenton plus photo-Fenton in a solar pilot plant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 185, 354-363	4.7	80
52	Pilot plant scale reactive dyes degradation by solar photo-Fenton and biological processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 205-214	4.7	76
51	A novel TiO ₂ -assisted solar photocatalytic batch-process disinfection reactor for the treatment of biological and chemical contaminants in domestic drinking water in developing countries. <i>Solar Energy</i> , 2004 , 77, 649-655	6.8	75
50	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , 2000 , 25, 31-38	21.8	74
49	Modified photo-Fenton for degradation of emerging contaminants in municipal wastewater effluents. <i>Catalysis Today</i> , 2011 , 161, 241-246	5.3	65
48	A combined solar photocatalytic-biological field system for the mineralization of an industrial pollutant at pilot scale. <i>Catalysis Today</i> , 2007 , 122, 150-159	5.3	63
47	Activity of the ZnO/Fe ₂ O ₃ catalyst on the degradation of Dicamba and 2,4-D herbicides using simulated solar light. <i>Ceramics International</i> , 2014 , 40, 8701-8708	5.1	61
46	Optimization of electrocatalytic H ₂ O ₂ production at pilot plant scale for solar-assisted water treatment. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 327-336	21.8	58
45	Supported TiO ₂ solar photocatalysis at semi-pilot scale: degradation of pesticides found in citrus processing industry wastewater, reactivity and influence of photogenerated species. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 149-157	3.5	57
44	Combined nanofiltration and photo-Fenton treatment of water containing micropollutants. <i>Chemical Engineering Journal</i> , 2013 , 224, 89-95	14.7	57
43	Evaluation of operating parameters involved in solar photo-Fenton treatment of wastewater: Interdependence of initial pollutant concentration, temperature and iron concentration. <i>Applied Catalysis B: Environmental</i> , 2010 , 97, 292-298	21.8	55
42	Tertiary treatment of pulp mill wastewater by solar photo-Fenton. <i>Journal of Hazardous Materials</i> , 2012 , 225-226, 173-81	12.8	52
41	Scale-up strategy for a combined solar photo-Fenton/biological system for remediation of pesticide-contaminated water. <i>Catalysis Today</i> , 2010 , 151, 100-106	5.3	51

40	Solar photochemical treatment of winery wastewater in a CPC reactor. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 11242-8	5.7	49
39	Photocatalytic properties of nano-structured TiO ₂ -carbon films obtained by means of electrophoretic deposition. <i>Journal of Hazardous Materials</i> , 2007 , 147, 588-93	12.8	49
38	A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. <i>Water Research</i> , 2009 , 43, 784-92	12.5	48
37	Solar pilot plant scale hydrogen generation by irradiation of Cu/TiO ₂ composites in presence of sacrificial electron donors. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 15-23	21.8	47
36	Photocatalytic Pilot Scale Degradation Study of Pyrimethanil and of Its Main Degradation Products in Waters by Means of Solid-Phase Extraction Followed by Gas and Liquid Chromatography with Mass Spectrometry Detection. <i>Environmental Science & Technology</i> , 2000 , 34, 1563-1571	10.3	47
35	Heterogeneous photocatalytic hydrogen generation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12718-12724	6.7	45
34	Coupling solar photo-Fenton and biotreatment at industrial scale: main results of a demonstration plant. <i>Journal of Hazardous Materials</i> , 2007 , 146, 440-6	12.8	45
33	Degradation pathways of the commercial reactive azo dye Procion Red H-E7B under solar-assisted photo-Fenton reaction. <i>Environmental Science & Technology</i> , 2008 , 42, 6663-70	10.3	43
32	Remediation of agro-food industry effluents by biotreatment combined with supported TiO ₂ /H ₂ O ₂ solar photocatalysis. <i>Chemical Engineering Journal</i> , 2015 , 273, 205-213	14.7	42
31	Photocatalytic hydrogen production in a solar pilot plant using a Au/TiO ₂ photo catalyst. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11933-11940	6.7	42
30	Solar photocatalytic mineralization of commercial pesticides: methamidophos. <i>Chemosphere</i> , 1999 , 38, 1145-56	8.4	42
29	Treatment of pulp mill wastewater by <i>Cryptococcus podzolicus</i> and solar photo-Fenton: A case study. <i>Chemical Engineering Journal</i> , 2014 , 245, 158-165	14.7	40
28	Cost estimation of COD and color removal from landfill leachate using combined coffee-waste based activated carbon with advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 114-121	6.8	39
27	Solar treatment of cork boiling and bleaching wastewaters in a pilot plant. <i>Water Research</i> , 2009 , 43, 4050-62	12.5	38
26	Evaluating Microtox as a tool for biodegradability assessment of partially treated solutions of pesticides using Fe ³⁺ and TiO ₂ solar photo-assisted processes. <i>Ecotoxicology and Environmental Safety</i> , 2008 , 69, 546-55	7	38
25	Solar transformation and photocatalytic treatment of cocaine in water: Kinetics, characterization of major intermediate products and toxicity evaluation. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 37-48	21.8	36
24	Solar photo-Fenton degradation of herbicides partially dissolved in water. <i>Catalysis Today</i> , 2011 , 161, 214-220	5.3	35
23	Improved landfill leachate quality using ozone, UV solar radiation, hydrogen peroxide, persulfate and adsorption processes. <i>Journal of Environmental Management</i> , 2019 , 232, 45-51	7.9	35

22	Microcontaminant removal by solar photo-Fenton at natural pH run with sequential and continuous iron additions. <i>Chemical Engineering Journal</i> , 2014 , 235, 132-140	14.7	33
21	Coupled solar photo-Fenton and biological treatment for the degradation of diuron and linuron herbicides at pilot scale. <i>Chemosphere</i> , 2008 , 72, 622-9	8.4	33
20	Increased biodegradability of Ultracid in aqueous solutions with solar TiO ₂ photocatalysis. <i>Chemosphere</i> , 2007 , 68, 293-300	8.4	32
19	Photolytic and photocatalytic transformation of methadone in aqueous solutions under solar irradiation: kinetics, characterization of major intermediate products and toxicity evaluation. <i>Water Research</i> , 2011 , 45, 4815-26	12.5	24
18	Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 691-8	4.2	23
17	Solar CPC pilot plant photocatalytic degradation of bisphenol A in waters and wastewaters using suspended and supported-TiO ₂ . Influence of photogenerated species. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 12112-21	5.1	22
16	Solar heterogeneous and homogeneous photocatalysis as a pre-treatment option for biotreatment. <i>Research on Chemical Intermediates</i> , 2007 , 33, 407-420	2.8	20
15	Photo-decolorization and ecotoxicological effects of solar compound parabolic collector pilot plant and artificial light photocatalysis of indigo carmine dye. <i>Dyes and Pigments</i> , 2015 , 113, 571-580	4.6	19
14	Hydrogen generation by irradiation of commercial CuO + TiO ₂ mixtures at solar pilot plant scale and in presence of organic electron donors. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117890	21.8	16
13	Solar CPC Pilot Plant Photocatalytic Degradation of Indigo Carmine Dye in Waters and Wastewaters Using Supported-TiO ₂ : Influence of Photodegradation Parameters. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-12	2.1	15
12	Molecular characterization of activated sludge from a seawater-processing wastewater treatment plant. <i>Microbial Biotechnology</i> , 2011 , 4, 628-42	6.3	15
11	Solar photocatalytic treatment of landfill leachate using a solid mineral by-product as a catalyst. <i>Chemosphere</i> , 2012 , 88, 1090-6	8.4	13
10	Fosetyl-Al photo-Fenton degradation and its endogenous catalyst inhibition. <i>Journal of Hazardous Materials</i> , 2014 , 265, 177-84	12.8	9
9	2,4-Dichlorophenol degradation by means of heterogeneous photocatalysis. Comparison between laboratory and pilot plant performance. <i>Chemical Engineering Journal</i> , 2013 , 232, 405-417	14.7	8
8	Advanced oxidation process-biological system for wastewater containing a recalcitrant pollutant. <i>Water Science and Technology</i> , 2007 , 55, 229-35	2.2	7
7	Fenton and solar photo-Fenton processes in the depuration of wastewater resulting from production of grape juice. A factorial design. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 1329-1336	3.5	5
6	Solar Photocatalytic Processes: Water Decontamination and Disinfection 2013 , 371-393		2
5	Removal of Pesticides from Water and Wastewater by Solar-Driven Photocatalysis. <i>Springer Briefs in Molecular Science</i> , 2012 , 59-76	0.6	2

4	CHAPTER 6:Process Integration. Concepts of Integration and Coupling of Photocatalysis with Other Processes. <i>RSC Energy and Environment Series</i> , 2016 , 157-173	0.6	2
3	Comparison of Photo-Fenton Treatment and Coupled Photo-Fenton and Biological Treatment for Detoxification of Pharmaceutical Industry Contaminants. <i>Journal of Advanced Oxidation Technologies</i> , 2008 , 11,		1
2	Photocatalytic hydrogen production from water-methanol and -glycerol mixtures using Pd/TiO ₂ (-WO ₃) catalysts and validation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 36152-36152	6.7	1
1	Removal of organic matter from wastewater coming from fruit juice production using solar photo-Fenton process. <i>International Journal of Chemical Reactor Engineering</i> , 2021 , 19, 809-815	1.2	0