

# Manuel Ignacio Maldonado

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75  
papers

7,016  
citations

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	Removal of organic matter from wastewater coming from fruit juice production using solar photo-Fenton process. <i>International Journal of Chemical Reactor Engineering</i> , <b>2021</b> , 19, 809-815	1.2	0
74	Photocatalytic hydrogen production from water-methanol and -glycerol mixtures using Pd/TiO <sub>2</sub> (-WO <sub>3</sub> ) catalysts and validation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 36152-36152	6.7	1
73	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> , <b>2020</b> , 95, 1329-1336	3.5	5
72	Hydrogen generation by irradiation of commercial CuO + TiO <sub>2</sub> mixtures at solar pilot plant scale and in presence of organic electron donors. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117890	21.8	16
71	Improved landfill leachate quality using ozone, UV solar radiation, hydrogen peroxide, persulfate and adsorption processes. <i>Journal of Environmental Management</i> , <b>2019</b> , 232, 45-51	7.9	35
70	Optimization of electrocatalytic H <sub>2</sub> O <sub>2</sub> production at pilot plant scale for solar-assisted water treatment. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 327-336	21.8	58
69	Solar pilot plant scale hydrogen generation by irradiation of Cu/TiO <sub>2</sub> composites in presence of sacrificial electron donors. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 15-23	21.8	47
68	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> , <b>2017</b> , 5, 114-121	6.8	39
67	Decontamination and disinfection of water by solar photocatalysis: The pilot plants of the Plataforma Solar de Almeria. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 42, 15-23	4.3	117
66	Photocatalytic hydrogen production in a solar pilot plant using a Au/TiO <sub>2</sub> photo catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11933-11940	6.7	42
65	CHAPTER 6: Process Integration. Concepts of Integration and Coupling of Photocatalysis with Other Processes. <i>RSC Energy and Environment Series</i> , <b>2016</b> , 157-173	0.6	2
64	Remediation of agro-food industry effluents by biotreatment combined with supported TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> solar photocatalysis. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 205-213	14.7	42
63	Supported TiO <sub>2</sub> 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> , <b>2015</b> , 90, 149-157	3.5	57
62	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> , <b>2015</b> , 113, 571-580	4.6	19
61	Solar CPC Pilot Plant Photocatalytic Degradation of Indigo Carmine Dye in Waters and Wastewaters Using Supported-TiO <sub>2</sub> : Influence of Photodegradation Parameters. <i>International Journal of Photoenergy</i> , <b>2015</b> , 2015, 1-12	2.1	15
60	Mature landfill leachate treatment by coagulation/flocculation combined with Fenton and solar photo-Fenton processes. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 286, 261-8	12.8	181
59	Treatment of pulp mill wastewater by <i>Cryptococcus podzolicus</i> and solar photo-Fenton: A case study. <i>Chemical Engineering Journal</i> , <b>2014</b> , 245, 158-165	14.7	40

58	Microcontaminant removal by solar photo-Fenton at natural pH run with sequential and continuous iron additions. <i>Chemical Engineering Journal</i> , <b>2014</b> , 235, 132-140	14.7	33
57	Solar CPC pilot plant photocatalytic degradation of bisphenol A in waters and wastewaters using suspended and supported-TiO <sub>2</sub> . Influence of photogenerated species. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 12112-21	5.1	22
56	Fosetyl-Al photo-Fenton degradation and its endogenous catalyst inhibition. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 265, 177-84	12.8	9
55	Activity of the ZnOFe <sub>2</sub> O <sub>3</sub> catalyst on the degradation of Dicamba and 2,4-D herbicides using simulated solar light. <i>Ceramics International</i> , <b>2014</b> , 40, 8701-8708	5.1	61
54	Solar Photocatalytic Processes: Water Decontamination and Disinfection <b>2013</b> , 371-393		2
53	Combined nanofiltration and photo-Fenton treatment of water containing micropollutants. <i>Chemical Engineering Journal</i> , <b>2013</b> , 224, 89-95	14.7	57
52	2,4-Dichlorophenol degradation by means of heterogeneous photocatalysis. Comparison between laboratory and pilot plant performance. <i>Chemical Engineering Journal</i> , <b>2013</b> , 232, 405-417	14.7	8
51	Heterogeneous photocatalytic hydrogen generation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 12718-12724	6.7	45
50	Tertiary treatment of pulp mill wastewater by solar photo-Fenton. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 225-226, 173-81	12.8	52
49	Removal of Pesticides from Water and Wastewater by Solar-Driven Photocatalysis. <i>Springer Briefs in Molecular Science</i> , <b>2012</b> , 59-76	0.6	2
48	Solar photocatalytic treatment of landfill leachate using a solid mineral by-product as a catalyst. <i>Chemosphere</i> , <b>2012</b> , 88, 1090-6	8.4	13
47	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> , <b>2011</b> , 45, 4815-26	12.5	24
46	Molecular characterization of activated sludge from a seawater-processing wastewater treatment plant. <i>Microbial Biotechnology</i> , <b>2011</b> , 4, 628-42	6.3	15
45	Modified photo-Fenton for degradation of emerging contaminants in municipal wastewater effluents. <i>Catalysis Today</i> , <b>2011</b> , 161, 241-246	5.3	65
44	Solar photo-Fenton degradation of herbicides partially dissolved in water. <i>Catalysis Today</i> , <b>2011</b> , 161, 214-220	5.3	35
43	Solar transformation and photocatalytic treatment of cocaine in water: Kinetics, characterization of major intermediate products and toxicity evaluation. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 104, 37-48	21.8	36
42	Degradation of fifteen emerging contaminants at microg L(-1) initial concentrations by mild solar photo-Fenton in MWTP effluents. <i>Water Research</i> , <b>2010</b> , 44, 545-54	12.5	264
41	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> , <b>2010</b> , 97, 292-298	21.8	55

40	Scale-up strategy for a combined solar photo-Fenton/biological system for remediation of pesticide-contaminated water. <i>Catalysis Today</i> , <b>2010</b> , 151, 100-106	5.3	51
39	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , <b>2009</b> , 13, 1437-1445	16.2	145
38	Evaluation of operational parameters involved in solar photo-Fenton degradation of a commercial pesticide mixture. <i>Catalysis Today</i> , <b>2009</b> , 144, 94-99	5.3	83
37	Degradation of emerging contaminants at low concentrations in MWTPs effluents with mild solar photo-Fenton and TiO <sub>2</sub> . <i>Catalysis Today</i> , <b>2009</b> , 144, 124-130	5.3	113
36	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , <b>2009</b> , 147, 1-59	5.3	2187
35	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> , <b>2009</b> , 88, 448-454	21.8	90
34	Solar photochemical treatment of winery wastewater in a CPC reactor. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 11242-8	5.7	49
33	A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. <i>Water Research</i> , <b>2009</b> , 43, 784-92	12.5	48
32	Solar treatment of cork boiling and bleaching wastewaters in a pilot plant. <i>Water Research</i> , <b>2009</b> , 43, 4050-62	12.5	38
31	Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 691-8	4.2	23
30	Evaluating Microtox as a tool for biodegradability assessment of partially treated solutions of pesticides using Fe <sup>3+</sup> and TiO <sub>2</sub> solar photo-assisted processes. <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 69, 546-55	7	38
29	Coupled solar photo-Fenton and biological treatment for the degradation of diuron and linuron herbicides at pilot scale. <i>Chemosphere</i> , <b>2008</b> , 72, 622-9	8.4	33
28	Degradation pathways of the commercial reactive azo dye Procion Red H-E7B under solar-assisted photo-Fenton reaction. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 6663-70	10.3	43
27	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> , <b>2008</b> , 11,		1
26	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> , <b>2008</b> , 76, 656-662	4.6	96
25	Pilot plant scale reactive dyes degradation by solar photo-Fenton and biological processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2008</b> , 195, 205-214	4.7	76
24	Photocatalytic degradation of EU priority substances: A comparison between TiO <sub>2</sub> and Fenton plus photo-Fenton in a solar pilot plant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 185, 354-363	4.7	80
23	Photocatalytic properties of nano-structured TiO <sub>2</sub> -carbon films obtained by means of electrophoretic deposition. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 147, 588-93	12.8	49

22	Coupling solar photo-Fenton and biotreatment at industrial scale: main results of a demonstration plant. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 146, 440-6	12.8	45
21	Solar heterogeneous and homogeneous photocatalysis as a pre-treatment option for biotreatment. <i>Research on Chemical Intermediates</i> , <b>2007</b> , 33, 407-420	2.8	20
20	A combined solar photocatalytic-biological field system for the mineralization of an industrial pollutant at pilot scale. <i>Catalysis Today</i> , <b>2007</b> , 122, 150-159	5.3	63
19	Detoxification of wastewater containing five common pesticides by solar AOPs/Biological coupled system. <i>Catalysis Today</i> , <b>2007</b> , 129, 69-78	5.3	91
18	Advanced oxidation process-biological system for wastewater containing a recalcitrant pollutant. <i>Water Science and Technology</i> , <b>2007</b> , 55, 229-35	2.2	7
17	Increased biodegradability of Ultracid in aqueous solutions with solar TiO <sub>2</sub> photocatalysis. <i>Chemosphere</i> , <b>2007</b> , 68, 293-300	8.4	32
16	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , <b>2007</b> , 122, 137-149	5.3	215
15	Degradation of pesticides in water using solar advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 64, 272-281	21.8	114
14	Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. <i>Water Research</i> , <b>2006</b> , 40, 1086-94	12.5	112
13	In situ electrochemical and photo-electrochemical generation of the fenton reagent: a potentially important new water treatment technology. <i>Water Research</i> , <b>2006</b> , 40, 1754-62	12.5	112
12	Solar photocatalytic degradation of some hazardous water-soluble pesticides at pilot-plant scale. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 138, 507-17	12.8	157
11	Solar photocatalytic degradation and detoxification of EU priority substances. <i>Catalysis Today</i> , <b>2005</b> , 101, 203-210	5.3	123
10	Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale. <i>Catalysis Today</i> , <b>2005</b> , 101, 219-226	5.3	125
9	Pilot-plant treatment of olive mill wastewater (OMW) by solar TiO <sub>2</sub> photocatalysis and solar photo-Fenton. <i>Solar Energy</i> , <b>2004</b> , 77, 567-572	6.8	144
8	A novel TiO <sub>2</sub> -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> , <b>2004</b> , 77, 649-655	6.8	75
7	Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 46, 319-332	21.8	163
6	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , <b>2003</b> , 75, 329-336	6.8	212
5	Optimising solar photocatalytic mineralisation of pesticides by adding inorganic oxidising species; application to the recycling of pesticide containers. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 28, 163-174	21.8	105

4	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 25, 31-38	21.8	74
3	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 &amp; Technology</i> , <b>2000</b> , 34, 1563-1571	10.3	47
2	Solar photocatalytic mineralization of commercial pesticides: methamidophos. <i>Chemosphere</i> , <b>1999</b> , 38, 1145-56	8.4	42
1	Enhancement of the rate of solar photocatalytic mineralization of organic pollutants by inorganic oxidizing species. <i>Applied Catalysis B: Environmental</i> , <b>1998</b> , 17, 347-356	21.8	181