

Jaime Gimenez

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.

84
papers

6,223
citations

38
h-index

78
g-index

93
ext. papers

6,706
ext. citations

9
avg. IF

5.56
L-index

#	Paper	IF	Citations
84	Role of sunlight and oxygen on the performance of photo-Fenton process at near neutral pH using organic fertilizers as iron chelates. <i>Science of the Total Environment</i> , 2022 , 803, 149873	10.2	1
83	Evaluation of the main active species involved in the TiO ₂ photocatalytic degradation of ametryn herbicide and its by-products. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105109	6.8	3
82	Coagulation-flocculation followed by catalytic ozonation processes for enhanced primary treatment during wet weather conditions. <i>Journal of Environmental Management</i> , 2021 , 283, 111975	7.9	3
81	Improvement of the photo-Fenton process at natural condition of pH using organic fertilizers mixtures: Potential application to agricultural reuse of wastewater. <i>Applied Catalysis B: Environmental</i> , 2021 , 290, 120066	21.8	6
80	Mixtures of chelating agents to enhance photo-Fenton process at natural pH: Influence of wastewater matrix on micropollutant removal and bacterial inactivation. <i>Science of the Total Environment</i> , 2021 , 786, 147416	10.2	4
79	The self-sustaining decomposition of ammonium nitrate fertiliser: Case study, Escombreras valley, Spain. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121674	12.8	3
78	Organic fertilizer as a chelating agent in photo-Fenton at neutral pH with LEDs for agricultural wastewater reuse: Micropollutant abatement and bacterial inactivation. <i>Chemical Engineering Journal</i> , 2020 , 388, 124246	14.7	17
77	Removal and Degradation of Pharmaceutically Active Compounds (PhACs) in Wastewaters by Solar Advanced Oxidation Processes. <i>Handbook of Environmental Chemistry</i> , 2020 , 299-326	0.8	
76	Micropollutant removal in real WW by photo-Fenton (circumneutral and acid pH) with BLB and LED lamps. <i>Chemical Engineering Journal</i> , 2020 , 379, 122416	14.7	17
75	Economic Assessment and Possible Industrial Application of a (Photo)catalytic Process 2019 , 235-267		1
74	Synergies, radiation and kinetics in photo-Fenton process with UVA-LEDs. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120882	12.8	18
73	Performance and kinetic modelling of photolytic and photocatalytic ozonation for enhanced micropollutants removal in municipal wastewaters. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 211-217	21.8	37
72	Photocatalytic diphenhydramine degradation under different radiation sources: Kinetic studies and energetic comparison. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 497-505	21.8	11
71	Photo-Fenton treatment of valproate under UVC, UVA and simulated solar radiation. <i>Journal of Hazardous Materials</i> , 2017 , 323, 537-549	12.8	22
70	Synthesis, Characterization, and Photocatalytic Activity of Pure and N-, B-, or Ag- Doped TiO ₂ . <i>Journal of the Brazilian Chemical Society</i> , 2017 ,	1.5	4
69	Photocatalytic treatment of valproic acid sodium salt with TiO ₂ in different experimental devices: An economic and energetic comparison. <i>Chemical Engineering Journal</i> , 2017 , 327, 656-665	14.7	9
68	Treatment of Diphenhydramine with different AOPs including photo-Fenton at circumneutral pH. <i>Chemical Engineering Journal</i> , 2017 , 318, 112-120	14.7	25

67	Enhancement of Fenton and photo-Fenton processes at initial circumneutral pH for the degradation of the Eblocker metoprolol. <i>Water Research</i> , 2016 , 88, 449-457	12.5	72
66	Degradation of Metoprolol by photo-Fenton: Comparison of different photoreactors performance. <i>Chemical Engineering Journal</i> , 2016 , 283, 639-648	14.7	30
65	Photocatalytic mechanism of metoprolol oxidation by photocatalysts TiO ₂ and TiO ₂ doped with 5% B: Primary active species and intermediates. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 111-122	21.8	72
64	Competency Training of Students of the Faculty of Chemistry of the University of Barcelona by Conducting Internal Audits. <i>Procedia, Social and Behavioral Sciences</i> , 2015 , 196, 59-62		
63	Photocatalytic treatment of metoprolol with B-doped TiO ₂ : Effect of water matrix, toxicological evaluation and identification of intermediates. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 173-182	21.8	50
62	Advanced Oxidation Processes at Laboratory Scale: Environmental and Economic Impacts. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3188-3196	8.3	49
61	Synthesis and characterization of B-doped TiO ₂ and their performance for the degradation of metoprolol. <i>Catalysis Today</i> , 2015 , 252, 27-34	5.3	47
60	Performance of different advanced oxidation technologies for the abatement of the beta-blocker metoprolol. <i>Catalysis Today</i> , 2015 , 240, 86-92	5.3	24
59	Comparing the photocatalytic oxidation of Metoprolol in a solarbox and a solar pilot plant reactor. <i>Chemical Engineering Journal</i> , 2014 , 254, 17-29	14.7	16
58	A comparison of the environmental impact of different AOPs: risk indexes. <i>Molecules</i> , 2014 , 20, 503-18	4.8	2
57	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
56	o-Nitrobenzaldehyde actinometry in the presence of suspended TiO ₂ for photocatalytic reactors. <i>Catalysis Today</i> , 2013 , 209, 209-214	5.3	40
55	Photolysis and TiO ₂ photocatalysis of the pharmaceutical propranolol: Solar and artificial light. <i>Applied Catalysis B: Environmental</i> , 2013 , 130-131, 249-256	21.8	88
54	Transformation products and reaction kinetics in simulated solar light photocatalytic degradation of propranolol using Ce-doped TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 13-29	21.8	75
53	Adsorption and Photocatalytic Decomposition of the EBlocker Metoprolol in Aqueous Titanium Dioxide Suspensions: Kinetics, Intermediates, and Degradation Pathways. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-10	2.1	18
52	Influence of Physical and Optical Parameters on 2,4-Dichlorophenol Degradation. <i>International Journal of Chemical Reactor Engineering</i> , 2013 , 11, 765-772	1.2	1
51	Degradation of 32 emergent contaminants by UV and neutral photo-fenton in domestic wastewater effluent previously treated by activated sludge. <i>Water Research</i> , 2012 , 46, 1947-57	12.5	346
50	Direct evaluation of the absorbed photon flow in a photocatalytic reactor by an actinometric method. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 158-167	14.7	3

49	Photooxidation of the antidepressant drug Fluoxetine (Prozac [®]) in aqueous media by hybrid catalytic/ozonation processes. <i>Water Research</i> , 2011 , 45, 2782-94	12.5	52
48	Photocatalytic treatment of metoprolol and propranolol. <i>Catalysis Today</i> , 2011 , 161, 115-120	5.3	64
47	Degradation of the emerging contaminant ibuprofen in water by photo-Fenton. <i>Water Research</i> , 2010 , 44, 589-95	12.5	207
46	Evaluation of two types of TiO ₂ -based catalysts by photodegradation of DMSO in aqueous suspension. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 202, 164-171	4.7	49
45	Abatement of ibuprofen by solar photocatalysis process: Enhancement and scale up. <i>Catalysis Today</i> , 2009 , 144, 112-116	5.3	50
44	Photocatalytic degradation of antibiotics: The case of sulfamethoxazole and trimethoprim. <i>Catalysis Today</i> , 2009 , 144, 131-136	5.3	125
43	Mineralization enhancement of a recalcitrant pharmaceutical pollutant in water by advanced oxidation hybrid processes. <i>Water Research</i> , 2009 , 43, 3984-91	12.5	95
42	Photocatalytic degradation of non-steroidal anti-inflammatory drugs with TiO ₂ and simulated solar irradiation. <i>Water Research</i> , 2008 , 42, 585-94	12.5	262
41	Ultrasonic treatment of water contaminated with ibuprofen. <i>Water Research</i> , 2008 , 42, 4243-8	12.5	218
40	Higher intrinsic photocatalytic efficiency of 2,4,6-triphenylpyrylium-based photocatalysts compared to TiO ₂ P-25 for the degradation of 2,4-dichlorophenol using solar simulated light. <i>Chemosphere</i> , 2008 , 72, 67-74	8.4	17
39	Photolysis and TiO ₂ Photocatalytic Treatment of Naproxen: Degradation, Mineralization, Intermediates and Toxicity. <i>Journal of Advanced Oxidation Technologies</i> , 2008 , 11,		10
38	Optical Properties of TiO ₂ Suspensions: Influence of pH and Powder Concentration on Mean Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7620-7626	3.9	33
37	Study of the wavelength effect in the photolysis and heterogeneous photocatalysis. <i>Catalysis Today</i> , 2007 , 129, 231-239	5.3	28
36	Photocatalytic degradation of sulfamethoxazole in aqueous suspension of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2007 , 74, 233-241	21.8	204
35	Comparative Study of 2,4-Dichlorophenol Degradation With Different Advanced Oxidation Processes. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007 , 129, 60-67	2.3	8
34	Approach to TiO ₂ light interaction in heterogeneous photocatalysis. <i>Water Science and Technology</i> , 2007 , 55, 147-151	2.2	1
33	Coupled photochemical-biological system to treat biorecalcitrant wastewater. <i>Water Science and Technology</i> , 2007 , 55, 95-100	2.2	29
32	Optimizing the solar photo-Fenton process in the treatment of contaminated water. Determination of intrinsic kinetic constants for scale-up. <i>Solar Energy</i> , 2005 , 79, 360-368	6.8	70

31	Photocatalytic degradation of 2,4-dichlorophenol by TiO ₂ /UV: Kinetics, actinometries and models. <i>Catalysis Today</i> , 2005 , 101, 227-236	5.3	102
30	Degradation of chlorophenols by means of advanced oxidation processes: a general review. <i>Applied Catalysis B: Environmental</i> , 2004 , 47, 219-256	21.8	1635
29	Iron(III) photooxidation of organic compounds in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2002 , 37, 131-137	21.8	44
28	Effects of radiation absorption and catalyst concentration on the photocatalytic degradation of pollutants. <i>Catalysis Today</i> , 2002 , 76, 177-188	5.3	63
27	The influence of different irradiation sources on the treatment of nitrobenzene. <i>Catalysis Today</i> , 2002 , 76, 291-300	5.3	57
26	Comparison of different advanced oxidation processes for phenol degradation. <i>Water Research</i> , 2002 , 36, 1034-42	12.5	789
25	Photocatalytic treatment of phenol and 2,4-dichlorophenol in a solar plant in the way to scaling-up. <i>Catalysis Today</i> , 1999 , 54, 229-243	5.3	94
24	Reactor modelling in the photocatalytic oxidation of wastewater. <i>Water Science and Technology</i> , 1997 , 35, 207-213	2.2	54
23	Low-concentrating CPC collectors for photocatalytic water detoxification: comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997 , 35, 157-164	2.2	83
22	Low-concentrating CPC collectors for photocatalytic water detoxification: Comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997 , 35, 157	2.2	48
21	Reactor modelling in the photocatalytic oxidation of wastewater. <i>Water Science and Technology</i> , 1997 , 35, 207	2.2	19
20	Photodecomposition of phenol in a flow reactor: Adsorption and kinetics. <i>Monatshefte für Chemie</i> , 1997 , 128, 1109-1118	1.4	9
19	Photocatalysis and radiation absorption in a solar plant. <i>Solar Energy Materials and Solar Cells</i> , 1996 , 44, 199-217	6.4	35
18	Photocatalytic reduction of chromium(VI) with titania powders in a flow system. Kinetics and catalyst activity. <i>Journal of Molecular Catalysis A</i> , 1996 , 105, 67-78		73
17	Photocatalytic degradation of phenol: Comparison between pilot-plant-scale and laboratory results. <i>Solar Energy</i> , 1996 , 56, 387-400	6.8	57
16	Continuous photocatalytic treatment of mercury(II) on titania powders. Kinetics and catalyst activity. <i>Chemical Engineering Science</i> , 1995 , 50, 1561-1569	4.4	28
15	Comparison of TiO ₂ powder suspensions and TiO ₂ ceramic membranes supported on glass as photocatalytic systems in the reduction of chromium(VI). <i>Journal of Molecular Catalysis</i> , 1992 , 71, 57-68		74
14	Solar hydrogen photoproduction from sulphide/sulphite substrate. <i>International Journal of Hydrogen Energy</i> , 1992 , 17, 683-688	6.7	18

13	A comparative study of CdS-based semiconductor photocatalysts for solar hydrogen production from sulphide + sulphite substrates. <i>Solar Energy Materials and Solar Cells</i> , 1992 , 25, 25-39	6.4	40
12	A new continuous device to perform S-L-G photocatalytic studies. <i>Solar Energy</i> , 1992 , 49, 47-52	6.8	9
11	CONTINUOUS PHOTOCATALYTIC TREATMENT OF Cr(VI) EFFLUENTS WITH SEMICONDUCTOR POWDERS. <i>Chemical Engineering Communications</i> , 1991 , 104, 71-85	2.2	40
10	Preparation and characterization of Pt(RuO ₂)/TiO ₂ catalysts: Test in a continuous water photolysis system. <i>Journal of Catalysis</i> , 1990 , 123, 319-332	7.3	16
9	Photocatalytic production of hydrogen from sulfide and sulfite waste streams: a kinetic model for reactions occurring in illuminating suspensions of CdS. <i>Chemical Engineering Science</i> , 1990 , 45, 3089-3096	4.4	39
8	A comparative study of semiconductor photocatalysts for hydrogen production by visible light using different sacrificial substrates in aqueous media. <i>International Journal of Hydrogen Energy</i> , 1990 , 15, 115-124	6.7	50
7	Radiation-induced corrosion of wet CdS powders monitored by transmission electron microscopy. <i>Journal of Colloid and Interface Science</i> , 1990 , 140, 35-40	9.3	3
6	Rate-controlling steps in a three-phase (solid-liquid-gas) photoreactor: a phenomenological approach applied to hydrogen photoproduction using Pt-TiO ₂ aqueous suspensions. <i>Chemical Engineering Science</i> , 1989 , 44, 583-593	4.4	22
5	Catalytic Activity of Sulphonated Styrene-Divinylbenzene Resins. <i>Applied Catalysis</i> , 1989 , 48, 307-325		2
4	Physical characteristics of photocatalysts affecting the performance of a process in a continuous photoreactor. <i>Solar Energy Materials and Solar Cells</i> , 1988 , 17, 151-163		14
3	Catalysis by ion-exchange sulfonated resins: Comparative study of gel and macroporous types and influence of divinylbenzene concentration. <i>Applied Catalysis</i> , 1987 , 31, 221-234		8
2	Vapor-phase esterification of acetic acid with ethanol catalyzed by a macroporous sulfonated styrene-divinylbenzene (20%) resin. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 198-202	3.9	51
1	Lessons learned from the Barracas accident: Ammonium nitrate explosion during road transport. <i>Process Safety Progress</i> ,	1	1