

Jos Luis Casas Lopez

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.

58
papers

2,162
citations

27
h-index

45
g-index

60
ext. papers

2,334
ext. citations

8.8
avg, IF

4.75
L-index

#	Paper	IF	Citations
58	Simultaneous Disinfection and Organic Microcontaminant Removal by UVC-LED-Driven Advanced Oxidation Processes. <i>Water (Switzerland)</i> , 2021 , 13, 1507	3	1
57	Assessment of different iron sources for continuous flow solar photo-Fenton at neutral pH for sulfamethoxazole removal in actual MWWTP effluents. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102109	6.7	3
56	Neutral or acidic pH for the removal of contaminants of emerging concern in wastewater by solar photo-Fenton? A techno-economic assessment of continuous raceway pond reactors. <i>Science of the Total Environment</i> , 2020 , 736, 139681	10.2	19
55	Solar Drying of Greenhouse Crop Residues for Energy Valorization: Modeling and Determination of Optimal Conditions. <i>Agronomy</i> , 2020 , 10, 2001	3.6	2
54	Unfolding the action mode of light and homogeneous vs. heterogeneous photo-Fenton in bacteria disinfection and concurrent elimination of micropollutants in urban wastewater, mediated by iron oxides in Raceway Pond Reactors. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118158	21.8	19
53	Selection of biomass supply for a gasification process in a solar thermal hybrid plant for the production of electricity. <i>Industrial Crops and Products</i> , 2019 , 137, 339-346	5.9	16
52	Kinetic assessment of antibiotic resistant bacteria inactivation by solar photo-Fenton in batch and continuous flow mode for wastewater reuse. <i>Water Research</i> , 2019 , 159, 184-191	12.5	24
51	Continuous flow disinfection of WWTP secondary effluents by solar photo-Fenton at neutral pH in raceway pond reactors at pilot plant scale. <i>Applied Catalysis B: Environmental</i> , 2019 , 247, 115-123	21.8	27
50	Ecotoxicity evaluation of a WWTP effluent treated by solar photo-Fenton at neutral pH in a raceway pond reactor. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1093-1104	5.1	33
49	Effect of temperature and photon absorption on the kinetics of micropollutant removal by solar photo-Fenton in raceway pond reactors. <i>Chemical Engineering Journal</i> , 2017 , 310, 464-472	14.7	27
48	Does micropollutant removal by solar photo-Fenton reduce ecotoxicity in municipal wastewater? A comprehensive study at pilot scale open reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2114-2122	3.5	22
47	Effect of residence time on micropollutant removal in WWTP secondary effluents by continuous solar photo-Fenton process in raceway pond reactors. <i>Chemical Engineering Journal</i> , 2017 , 316, 1114-1124	14.7	40
46	A corporate water footprint case study: The production of Gazpacho, a chilled vegetable soup. <i>Water Resources and Industry</i> , 2017 , 17, 34-42	4.5	7
45	Low cost UVA-LED as a radiation source for the photo-Fenton process: a new approach for micropollutant removal from urban wastewater. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 72-78	4.2	17
44	Pyrimethanil degradation by photo-Fenton process: Influence of iron and irradiance level on treatment cost. <i>Science of the Total Environment</i> , 2017 , 605-606, 230-237	10.2	27
43	Fate of micropollutants during sewage sludge disintegration by low-frequency ultrasound. <i>Chemical Engineering Journal</i> , 2015 , 280, 575-587	14.7	12
42	Modelling the photo-Fenton oxidation of the pharmaceutical paracetamol in water including the effect of photon absorption (VRPA). <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 295-301	21.8	38

41	Modelling and testing of a solar-receiver system applied to high-temperature processes. <i>Renewable Energy</i> , 2015 , 76, 608-618	8.1	25
40	Modelling of the operation of raceway pond reactors for micropollutant removal by solar photo-Fenton as a function of photon absorption. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 210-217	21.8	44
39	Biological oxygen demand as a tool to predict membrane bioreactor best operating conditions for a photo-Fenton pretreated toxic wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 110-119	3.5	5
38	Effects of environmental variables on the photo-Fenton plant design. <i>Chemical Engineering Journal</i> , 2014 , 237, 469-477	14.7	21
37	Phenomenological study and application of the combined influence of iron concentration and irradiance on the photo-Fenton process to remove micropollutants. <i>Science of the Total Environment</i> , 2014 , 478, 123-32	10.2	30
36	Controlling pH in biological depuration of industrial wastewater to enable micropollutant removal using a further advanced oxidation process. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1274-1282	3.5	6
35	Thermal analysis and design of a volumetric solar absorber depending on the porosity. <i>Renewable Energy</i> , 2014 , 62, 116-128	8.1	74
34	Study of iron sources and hydrogen peroxide supply in the photo-Fenton process using acetaminophen as model contaminant. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 636-643	3.5	8
33	Economic evaluation of a combined photo-Fenton/MBR process using pesticides as model pollutant. Factors affecting costs. <i>Journal of Hazardous Materials</i> , 2013 , 244-245, 195-203	12.8	73
32	Cost analysis of different hydrogen peroxide supply strategies in the solar photo-Fenton process. <i>Chemical Engineering Journal</i> , 2013 , 224, 75-81	14.7	33
31	Thermal analysis and design of a solar prototype for high-temperature processes. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 56, 309-318	4.9	11
30	Iron dosage as a strategy to operate the photo-Fenton process at initial neutral pH. <i>Chemical Engineering Journal</i> , 2013 , 224, 67-74	14.7	36
29	Automatic dosage of hydrogen peroxide in solar photo-Fenton plants: development of a control strategy for efficiency enhancement. <i>Journal of Hazardous Materials</i> , 2012 , 237-238, 223-30	12.8	20
28	Gas-Liquid Mass Transfer in Sonicated Bubble Columns. Effect of Reactor Diameter and Liquid Height. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2769-2774	3.9	17
27	Modelling photo-Fenton process for organic matter mineralization, hydrogen peroxide consumption and dissolved oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2012 , 119-120, 132-138	21.8	30
26	Effect of environmental regulation on the profitability of sustainable water use in the agro-food industry. <i>Desalination</i> , 2011 , 279, 252-257	10.3	19
25	An analysis of the bacterial community in a membrane bioreactor fed with photo-Fenton pre-treated toxic water. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011 , 38, 1171-8	4.2	9
24	Dissolved oxygen concentration: A key parameter in monitoring the photo-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 316-323	21.8	45

23	Economic evaluation of the photo-Fenton process. Mineralization level and reaction time: the keys for increasing plant efficiency. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1924-9	12.8	57
22	Integration of Solar Photocatalysis and Membrane Bioreactor for Pesticides Degradation. <i>Separation Science and Technology</i> , 2010 , 45, 1571-1578	2.5	17
21	A comparative study of different tests for biodegradability enhancement determination during AOP treatment of recalcitrant toxic aqueous solutions. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 1189-95	7	35
20	Influence of ultrasound amplitude and duty cycle on fungal morphology and broth rheology of <i>Aspergillus terreus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2010 , 26, 1409-1418	4.4	11
19	Degradation of a four-pesticide mixture by combined photo-Fenton and biological oxidation. <i>Water Research</i> , 2009 , 43, 653-60	12.5	117
18	Effect of pesticide concentration on the degradation process by combined solar photo-Fenton and biological treatment. <i>Water Research</i> , 2009 , 43, 3838-48	12.5	44
17	Combined photo-Fenton and biological oxidation for pesticide degradation: effect of photo-treated intermediates on biodegradation kinetics. <i>Chemosphere</i> , 2008 , 70, 1476-83	8.4	37
16	Effects of ultrasound on culture of <i>Aspergillus terreus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 593-600	3.5	43
15	Lovastatin production by <i>Aspergillus terreus</i> in a two-staged feeding operation. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 1236-1243	3.5	19
14	A kinetics study on the biodegradation of synthetic wastewater simulating effluent from an advanced oxidation process using <i>Pseudomonas putida</i> CECT 324. <i>Journal of Hazardous Materials</i> , 2008 , 151, 780-8	12.8	23
13	Degradation of alachlor and pyrimethanil by combined photo-Fenton and biological oxidation. <i>Journal of Hazardous Materials</i> , 2008 , 155, 342-9	12.8	63
12	Enhanced production of lovastatin in a bubble column by <i>Aspergillus terreus</i> using a two-stage feeding strategy. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 58-64	3.5	23
11	Comparative analysis of the outdoor culture of <i>Haematococcus pluvialis</i> in tubular and bubble column photobioreactors. <i>Journal of Biotechnology</i> , 2006 , 123, 329-42	3.7	113
10	Simultaneous Determination of Oxygen Consumption Rate and Volumetric Oxygen Transfer Coefficient in Pneumatically Agitated Bioreactors. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1167-1171	3.9	34
9	<i>Aspergillus terreus</i> Broth Rheology, Oxygen Transfer, and Lovastatin Production in a Gas-Agitated Slurry Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4837-4843	3.9	32
8	Shear rate in stirred tank and bubble column bioreactors. <i>Chemical Engineering Journal</i> , 2006 , 124, 1-5	14.7	196
7	Effects of the sporulation conditions on the lovastatin production by <i>Aspergillus terreus</i> . <i>Bioprocess and Biosystems Engineering</i> , 2006 , 29, 1-5	3.7	19
6	Pellet morphology, culture rheology and lovastatin production in cultures of <i>Aspergillus terreus</i> . <i>Journal of Biotechnology</i> , 2005 , 116, 61-77	3.7	129

5	Effects of pellet morphology on broth rheology in fermentations of <i>Aspergillus terreus</i> . <i>Biochemical Engineering Journal</i> , 2005 , 26, 139-144	4.2	77
4	Rapid screening of <i>Aspergillus terreus</i> mutants for overproduction of lovastatin. <i>World Journal of Microbiology and Biotechnology</i> , 2005 , 21, 123-125	4.4	18
3	Lovastatin inhibits its own synthesis in <i>Aspergillus terreus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004 , 31, 48-50	4.2	26
2	Fermentation optimization for the production of lovastatin by <i>Aspergillus terreus</i> : use of response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 1119-1126	3.5	41
1	Production of lovastatin by <i>Aspergillus terreus</i> : effects of the C:N ratio and the principal nutrients on growth and metabolite production. <i>Enzyme and Microbial Technology</i> , 2003 , 33, 270-277	3.8	147