Jos Luis Casas Lpez

List of Publications by Citations

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	Shear rate in stirred tank and bubble column bioreactors. *Chemical Engineering Journal*, **2006**, 124, 1-5	14.7	196
57	Production of lovastatin by Aspergillus terreus: effects of the C:N ratio and the principal nutrients on growth and metabolite production. *Enzyme and Microbial Technology*, **2003**, 33, 270-277	3.8	147
56	Pellet morphology, culture rheology and lovastatin production in cultures of Aspergillus terreus. *Journal of Biotechnology*, **2005**, 116, 61-77	3.7	129
55	Degradation of a four-pesticide mixture by combined photo-Fenton and biological oxidation. *Water Research*, **2009**, 43, 653-60	12.5	117
54	Comparative analysis of the outdoor culture of Haematococcus pluvialis in tubular and bubble column photobioreactors. *Journal of Biotechnology*, **2006**, 123, 329-42	3.7	113
53	Effects of pellet morphology on broth rheology in fermentations of Aspergillus terreus. *Biochemical Engineering Journal*, **2005**, 26, 139-144	4.2	77
52	Thermal analysis and design of a volumetric solar absorber depending on the porosity. *Renewable Energy*, **2014**, 62, 116-128	8.1	74
51	Economic evaluation of a combined photo-Fenton/MBR process using pesticides as model pollutant. Factors affecting costs. *Journal of Hazardous Materials*, **2013**, 244-245, 195-203	12.8	73
50	Degradation of alachlor and pyrimethanil by combined photo-Fenton and biological oxidation. *Journal of Hazardous Materials*, **2008**, 155, 342-9	12.8	63
49	Economic evaluation of the photo-Fenton process. Mineralization level and reaction time: the keys for increasing plant efficiency. *Journal of Hazardous Materials*, **2011**, 186, 1924-9	12.8	57
48	Dissolved oxygen concentration: A key parameter in monitoring the photo-Fenton process. *Applied Catalysis B: Environmental*, **2011**, 104, 316-323	21.8	45
47	Modelling of the operation of raceway pond reactors for micropollutant removal by solar photo-Fenton as a function of photon absorption. *Applied Catalysis B: Environmental*, **2015**, 178, 210-217	21.8	44
46	Effect of pesticide concentration on the degradation process by combined solar photo-Fenton and biological treatment. *Water Research*, **2009**, 43, 3838-48	12.5	44
45	Effects of ultrasound on culture of Aspergillus terreus. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 593-600	3.5	43
44	Fermentation optimization for the production of lovastatin by Aspergillus terreus: use of response surface methodology. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 1119-1126	3.5	41
43	Effect of residence time on micropollutant removal in WWTP secondary effluents by continuous solar photo-Fenton process in raceway pond reactors. *Chemical Engineering Journal*, **2017**, 316, 1114-1121	14.7	40
42	Modelling the photo-Fenton oxidation of the pharmaceutical paracetamol in water including the effect of photon absorption (VRPA). *Applied Catalysis B: Environmental*, **2015**, 166-167, 295-301	21.8	38

41	Combined photo-Fenton and biological oxidation for pesticide degradation: effect of photo-treated intermediates on biodegradation kinetics. *Chemosphere*, **2008**, 70, 1476-83	8.4	37
40	Iron dosage as a strategy to operate the photo-Fenton process at initial neutral pH. *Chemical Engineering Journal*, **2013**, 224, 67-74	14.7	36
39	A comparative study of different tests for biodegradability enhancement determination during AOP treatment of recalcitrant toxic aqueous solutions. *Ecotoxicology and Environmental Safety*, **2010**, 73, 1189-95	7	35
38	Simultaneous Determination of Oxygen Consumption Rate and Volumetric Oxygen Transfer Coefficient in Pneumatically Agitated Bioreactors. *Industrial & Engineering Chemistry Research*, **2006**, 45, 1167-1171	3.9	34
37	Ecotoxicity evaluation of a WWTP effluent treated by solar photo-Fenton at neutral pH in a raceway pond reactor. *Environmental Science and Pollution Research*, **2017**, 24, 1093-1104	5.1	33
36	Cost analysis of different hydrogen peroxide supply strategies in the solar photo-Fenton process. *Chemical Engineering Journal*, **2013**, 224, 75-81	14.7	33
35	Aspergillus terreus Broth Rheology, Oxygen Transfer, and Lovastatin Production in a Gas-Agitated Slurry Reactor. *Industrial & Engineering Chemistry Research*, **2006**, 45, 4837-4843	3.9	32
34	Phenomenological study and application of the combined influence of iron concentration and irradiance on the photo-Fenton process to remove micropollutants. *Science of the Total Environment*, **2014**, 478, 123-32	10.2	30
33	Modelling photo-Fenton process for organic matter mineralization, hydrogen peroxide consumption and dissolved oxygen evolution. *Applied Catalysis B: Environmental*, **2012**, 119-120, 132-138	21.8	30
32	Effect of temperature and photon absorption on the kinetics of micropollutant removal by solar photo-Fenton in raceway pond reactors. *Chemical Engineering Journal*, **2017**, 310, 464-472	14.7	27
31	Pyrimethanil degradation by photo-Fenton process: Influence of iron and irradiance level on treatment cost. *Science of the Total Environment*, **2017**, 605-606, 230-237	10.2	27
30	Continuous flow disinfection of WWTP secondary effluents by solar photo-Fenton at neutral pH in raceway pond reactors at pilot plant scale. *Applied Catalysis B: Environmental*, **2019**, 247, 115-123	21.8	27
29	Lovastatin inhibits its own synthesis in Aspergillus terreus. *Journal of Industrial Microbiology and Biotechnology*, **2004**, 31, 48-50	4.2	26
28	Modelling and testing of a solar-receiver system applied to high-temperature processes. *Renewable Energy*, **2015**, 76, 608-618	8.1	25
27	Kinetic assessment of antibiotic resistant bacteria inactivation by solar photo-Fenton in batch and continuous flow mode for wastewater reuse. *Water Research*, **2019**, 159, 184-191	12.5	24
26	Enhanced production of lovastatin in a bubble column by Aspergillus terreus using a two-stage feeding strategy. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 58-64	3.5	23
25	A kinetics study on the biodegradation of synthetic wastewater simulating effluent from an advanced oxidation process using Pseudomonas putida CECT 324. *Journal of Hazardous Materials*, **2008**, 151, 780-8	12.8	23
24	Does micropollutant removal by solar photo-Fenton reduce ecotoxicity in municipal wastewater? A comprehensive study at pilot scale open reactors. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 2114-2122	3.5	22

23	Effects of environmental variables on the photo-Fenton plant design. *Chemical Engineering Journal*, **2014**, 237, 469-477	14.7	21
22	Automatic dosage of hydrogen peroxide in solar photo-Fenton plants: development of a control strategy for efficiency enhancement. *Journal of Hazardous Materials*, **2012**, 237-238, 223-30	12.8	20
21	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. *Science of the Total Environment*, **2020**, 736, 139681	10.2	19
20	Effect of environmental regulation on the profitability of sustainable water use in the agro-food industry. *Desalination*, **2011**, 279, 252-257	10.3	19
19	Lovastatin production by Aspergillus terreus in a two-staged feeding operation. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 1236-1243	3.5	19
18	Effects of the sporulation conditions on the lovastatin production by Aspergillus terreus. *Bioprocess and Biosystems Engineering*, **2006**, 29, 1-5	3.7	19
17	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. *Applied Catalysis B: Environmental*, **2020**, 263, 118158	21.8	19
16	Rapid screening of Aspergillus terreus mutants for overproduction of lovastatin. *World Journal of Microbiology and Biotechnology*, **2005**, 21, 123-125	4.4	18
15	Low cost UVA-LED as a radiation source for the photo-Fenton process: a new approach for micropollutant removal from urban wastewater. *Photochemical and Photobiological Sciences*, **2017**, 16, 72-78	4.2	17
14	Gas?quid Mass Transfer in Sonicated Bubble Columns. Effect of Reactor Diameter and Liquid Height. *Industrial & Engineering Chemistry Research*, **2012**, 51, 2769-2774	3.9	17
13	Integration of Solar Photocatalysis and Membrane Bioreactor for Pesticides Degradation. *Separation Science and Technology*, **2010**, 45, 1571-1578	2.5	17
12	Selection of biomass supply for a gasification process in a solar thermal hybrid plant for the production of electricity. *Industrial Crops and Products*, **2019**, 137, 339-346	5.9	16
11	Fate of micropollutants during sewage sludge disintegration by low-frequency ultrasound. *Chemical Engineering Journal*, **2015**, 280, 575-587	14.7	12
10	Thermal analysis and design of a solar prototype for high-temperature processes. *International Journal of Heat and Mass Transfer*, **2013**, 56, 309-318	4.9	11
9	Influence of ultrasound amplitude and duty cycle on fungal morphology and broth rheology of Aspergillus terreus. *World Journal of Microbiology and Biotechnology*, **2010**, 26, 1409-1418	4.4	11
8	An analysis of the bacterial community in a membrane bioreactor fed with photo-Fenton pre-treated toxic water. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 1171-8	4.2	9
7	Study of iron sources and hydrogen peroxide supply in the photo-Fenton process using acetaminophen as model contaminant. *Journal of Chemical Technology and Biotechnology*, **2013**, 88, 636-643	3.5	8
6	A corporate water footprint case study: The production of Gazpacho, a chilled vegetable soup. *Water Resources and Industry*, **2017**, 17, 34-42	4.5	7

5	Controlling pH in biological depuration of industrial wastewater to enable micropollutant removal using a further advanced oxidation process. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1274-1282	3.5	6
4	Biological oxygen demand as a tool to predict membrane bioreactor best operating conditions for a photo-Fenton pretreated toxic wastewater. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 110-119	3.5	5
3	Assessment of different iron sources for continuous flow solar photo-Fenton at neutral pH for sulfamethoxazole removal in actual MWWTP effluents. *Journal of Water Process Engineering*, **2021**, 42, 102109	6.7	3
2	Solar Drying of Greenhouse Crop Residues for Energy Valorization: Modeling and Determination of Optimal Conditions. *Agronomy*, **2020**, 10, 2001	3.6	2
1	Simultaneous Disinfection and Organic Microcontaminant Removal by UVC-LED-Driven Advanced Oxidation Processes. *Water (Switzerland)*, **2021**, 13, 1507	3	1