

# Alejandro Cabrera-Reina

## List of Publications by Citations

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27  
papers

466  
citations

13  
h-index

21  
g-index

28  
ext. papers

566  
ext. citations

9.8  
avg, IF

3.9  
L-index

#	Paper	IF	Citations
27	Economic evaluation of a combined photo-Fenton/MBR process using pesticides as model pollutant. Factors affecting costs. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 244-245, 195-203	12.8	73
26	Economic evaluation of the photo-Fenton process. Mineralization level and reaction time: the keys for increasing plant efficiency. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 1924-9	12.8	57
25	Modelling the photo-Fenton oxidation of the pharmaceutical paracetamol in water including the effect of photon absorption (VRPA). <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 166-167, 295-301	21.8	38
24	TiO photocatalysis under natural solar radiation for the degradation of the carbapenem antibiotics imipenem and meropenem in aqueous solutions at pilot plant scale. <i>Water Research</i> , <b>2019</b> , 166, 115037	12.5	36
23	EDDS as complexing agent for enhancing solar advanced oxidation processes in natural water: Effect of iron species and different oxidants. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 372, 129-136	12.8	36
22	Environmental assessment of solar photo-Fenton processes in combination with nanofiltration for the removal of micro-contaminants from real wastewaters. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 2210-2220	10.2	32
21	Photochemical degradation of the carbapenem antibiotics imipenem and meropenem in aqueous solutions under solar radiation. <i>Water Research</i> , <b>2018</b> , 128, 61-70	12.5	30
20	Modelling photo-Fenton process for organic matter mineralization, hydrogen peroxide consumption and dissolved oxygen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 119-120, 132-138	21.8	30
19	Pyrimethanil degradation by photo-Fenton process: Influence of iron and irradiance level on treatment cost. <i>Science of the Total Environment</i> , <b>2017</b> , 605-606, 230-237	10.2	27
18	Effects of environmental variables on the photo-Fenton plant design. <i>Chemical Engineering Journal</i> , <b>2014</b> , 237, 469-477	14.7	21
17	Integration of Solar Photocatalysis and Membrane Bioreactor for Pesticides Degradation. <i>Separation Science and Technology</i> , <b>2010</b> , 45, 1571-1578	2.5	17
16	Comparison of different detoxification pilot plants for the treatment of industrial wastewater by solar photo-Fenton: Are raceway pond reactors a feasible option?. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 601-608	10.2	14
15	Environmental assessment of sustainable energy options for multi-effect distillation of brackish water in isolated communities. <i>Journal of Cleaner Production</i> , <b>2019</b> , 213, 1371-1379	10.3	14
14	Techno-economic assessment of a multi-effect distillation plant installed for the production of irrigation water in Arica (Chile). <i>Science of the Total Environment</i> , <b>2018</b> , 643, 423-434	10.2	9
13	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> , <b>2015</b> , 90, 110-119	3.5	5
12	Dynamic modelling for cork boiling wastewater treatment at pilot plant scale. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 12182-9	5.1	5
11	Pilot-scale removal of microcontaminants by solar-driven photo-Fenton in treated municipal effluents: Selection of operating variables based on lab-scale experiments. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104788	6.8	5

10	Computational fluid dynamics (CFD) modeling of removal of contaminants of emerging concern in solar photo-Fenton raceway pond reactors. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127392	14.7	5
9	Application of solar photo-Fenton in raceway pond reactors: A review. <i>Science of the Total Environment</i> , <b>2021</b> , 800, 149653	10.2	4
8	An improved hybrid strategy for online dosage of hydrogen peroxide in photo-Fenton processes. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105235	6.8	3
7	The combined effect of irradiance and iron concentration on photo-Fenton treatment cost <b>2018</b> ,		2
6	Solar Water Detoxification. <i>Green Energy and Technology</i> , <b>2019</b> , 341-351	0.6	1
5	Approaches to Water and Wastewater Treatment for Removal of Emerging Contaminants: Ongoing Research and Recommendations for Future Work <b>2014</b> , 161-178		1
4	Evaluation of commercial zerovalent iron sources in combination with solar energy to remove microcontaminants from natural water at circumneutral pH. <i>Chemosphere</i> , <b>2022</b> , 286, 131557	8.4	1
3	Removal of microcontaminants by zero-valent iron solar processes at natural pH: Water matrix and oxidant agents effect.. <i>Science of the Total Environment</i> , <b>2022</b> , 819, 153152	10.2	0
2	New development of a solar electrochemical raceway pond reactor for industrial wastewater treatment. <i>Environmental Research</i> , <b>2022</b> , 212, 113553	7.9	0
1	A critical evaluation of the use of accumulated energy as a parameter for the scale-up of solar photoreactors during the treatment of simulated industrial wastewater by solar photo-Fenton. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 1593-1602	3.5	