

# Isabel Oller Alberola

## List of Publications by Citations

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148  
papers

7,086  
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42  
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152  
ext. papers

7,899  
ext. citations

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L-index

#	Paper	IF	Citations
148	Combination of Advanced Oxidation Processes and biological treatments for wastewater decontamination--a review. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 4141-66	10.2	1629
147	Application of solar AOPs and ozonation for elimination of micropollutants in municipal wastewater treatment plant effluents. <i>Water Research</i> , <b>2013</b> , 47, 1521-8	12.5	213
146	Decontamination industrial pharmaceutical wastewater by combining solar photo-Fenton and biological treatment. <i>Water Research</i> , <b>2009</b> , 43, 661-8	12.5	206
145	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
144	Treatment of emerging contaminants in wastewater treatment plants (WWTP) effluents by solar photocatalysis using low TiO <sub>2</sub> concentrations. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 211-212, 131-7	12.8	168
143	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
142	Solar photocatalytic degradation and detoxification of EU priority substances. <i>Catalysis Today</i> , <b>2005</b> , 101, 203-210	5.3	123
141	Fe-zeolites as heterogeneous catalysts in solar Fenton-like reactions at neutral pH. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 125, 51-58	21.8	121
140	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
139	Degradation of a four-pesticide mixture by combined photo-Fenton and biological oxidation. <i>Water Research</i> , <b>2009</b> , 43, 653-60	12.5	117
138	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
137	Partial degradation of five pesticides and an industrial pollutant by ozonation in a pilot-plant scale reactor. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 138, 363-9	12.8	113
136	Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. <i>Water Research</i> , <b>2006</b> , 40, 1086-94	12.5	112
135	Removal of pharmaceuticals from MWTP effluent by nanofiltration and solar photo-Fenton using two different iron complexes at neutral pH. <i>Water Research</i> , <b>2014</b> , 64, 23-31	12.5	109
134	Bacteria and fungi inactivation using Fe <sup>3+</sup> /sunlight, H <sub>2</sub> O <sub>2</sub> /sunlight and near neutral photo-Fenton: A comparative study. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 121-122, 20-29	21.8	102
133	Comparison of several combined/integrated biological-AOPs setups for the treatment of municipal landfill leachate: Minimization of operating costs and effluent toxicity. <i>Chemical Engineering Journal</i> , <b>2011</b> , 172, 250-257	14.7	96
132	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

131	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
130	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
129	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
128	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
127	Pharmaceuticals removal from natural water by nanofiltration combined with advanced tertiary treatments (solar photo-Fenton, photo-Fenton-like Fe(III)EDDS complex and ozonation). <i>Separation and Purification Technology</i> , <b>2014</b> , 122, 515-522	8.3	71
126	Strategies for reducing cost by using solar photo-Fenton treatment combined with nanofiltration to remove microcontaminants in real municipal effluents: Toxicity and economic assessment. <i>Chemical Engineering Journal</i> , <b>2017</b> , 318, 161-170	14.7	66
125	Decontamination of industrial wastewater containing pesticides by combining large-scale homogeneous solar photocatalysis and biological treatment. <i>Chemical Engineering Journal</i> , <b>2010</b> , 160, 447-456	14.7	65
124	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
123	Degradation of alachlor and pyrimethanil by combined photo-Fenton and biological oxidation. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 155, 342-9	12.8	63
122	Combination of nanofiltration and ozonation for the remediation of real municipal wastewater effluents: Acute and chronic toxicity assessment. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 323, 442-451	12.8	61
121	Comparison of UV/H <sub>2</sub> O <sub>2</sub> , UV/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> /solar/Fe(II)/H <sub>2</sub> O <sub>2</sub> and solar/Fe(II)/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> at pilot plant scale for the elimination of micro-contaminants in natural water: An economic assessment. <i>Chemical Engineering Journal</i> , <b>2017</b> , 310, 514-524	14.7	61
120	Oxidation mechanisms of amoxicillin and paracetamol in the photo-Fenton solar process. <i>Water Research</i> , <b>2019</b> , 156, 232-240	12.5	58
119	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
118	Solar photo-Fenton as finishing step for biological treatment of a pharmaceutical wastewater. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1185-91	10.3	57
117	Mild solar photo-Fenton: An effective tool for the removal of Fusarium from simulated municipal effluents. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 111-112, 545-554	21.8	55
116	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
115	Solar disinfection of contaminated water: a comparison of three small-scale reactors. <i>Solar Energy</i> , <b>2004</b> , 77, 657-664	6.8	54
114	Development of TiO <sub>2</sub> -C photocatalysts for solar treatment of polluted water. <i>Carbon</i> , <b>2017</b> , 122, 361-373	30.4	51

113	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
112	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
111	Solar disinfection of fungal spores in water aided by low concentrations of hydrogen peroxide. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 381-8	4.2	47
110	Dissolved oxygen concentration: A key parameter in monitoring the photo-Fenton process. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 104, 316-323	21.8	45
109	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
108	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
107	Treatment of chlorinated solvents by TiO <sub>2</sub> photocatalysis and photo-Fenton: influence of operating conditions in a solar pilot plant. <i>Chemosphere</i> , <b>2005</b> , 58, 391-8	8.4	43
106	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
105	Cork boiling wastewater treatment at pilot plant scale: Comparison of solar photo-Fenton and ozone (O <sub>3</sub> , O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> ). Toxicity and biodegradability assessment. <i>Chemical Engineering Journal</i> , <b>2013</b> , 234, 232-239	14.7	41
104	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
103	Removal of pharmaceuticals at microg L <sup>-1</sup> by combined nanofiltration and mild solar photo-Fenton. <i>Chemical Engineering Journal</i> , <b>2014</b> , 239, 68-74	14.7	40
102	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
101	Assessment of solar photo-Fenton, photocatalysis, and H <sub>2</sub> O <sub>2</sub> for removal of phytopathogen fungi spores in synthetic and real effluents of urban wastewater. <i>Chemical Engineering Journal</i> , <b>2014</b> , 257, 122-130	14.7	39
100	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
99	Resistance of <i>Fusarium</i> sp spores to solar TiO <sub>2</sub> photocatalysis: influence of spore type and water (scaling-up results). <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 1038-1048	3.5	38
98	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
97	Pilot-plant evaluation of TiO and TiO-based hybrid photocatalysts for solar treatment of polluted water. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 320, 469-478	12.8	38
96	Microcontaminant removal in secondary effluents by solar photo-Fenton at circumneutral pH in raceway pond reactors. <i>Catalysis Today</i> , <b>2017</b> , 287, 10-14	5.3	37

95	Microcontaminant degradation in municipal wastewater treatment plant secondary effluent by EDDS assisted photo-Fenton at near-neutral pH: An experimental design approach. <i>Catalysis Today</i> , <b>2015</b> , 252, 61-69	5.3	37
94	Combined photo-Fenton and biological oxidation for pesticide degradation: effect of photo-treated intermediates on biodegradation kinetics. <i>Chemosphere</i> , <b>2008</b> , 70, 1476-83	8.4	37
93	Enhancement of the Fenton and photo-Fenton processes by components found in wastewater from the industrial processing of natural products: The possibilities of cork boiling wastewater reuse. <i>Chemical Engineering Journal</i> , <b>2016</b> , 304, 890-896	14.7	37
92	Solar photo-Fenton optimization for the treatment of MWTP effluents containing emerging contaminants. <i>Catalysis Today</i> , <b>2013</b> , 209, 188-194	5.3	36
91	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
90	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
89	Benefits of photo-Fenton at low concentrations for solar disinfection of distilled water. A case study: <i>Phytophthora capsici</i> . <i>Catalysis Today</i> , <b>2013</b> , 209, 181-187	5.3	35
88	Solar photo-Fenton degradation of herbicides partially dissolved in water. <i>Catalysis Today</i> , <b>2011</b> , 161, 214-220	5.3	35
87	A comparative study of different tests for biodegradability enhancement determination during AOP treatment of recalcitrant toxic aqueous solutions. <i>Ecotoxicology and Environmental Safety</i> , <b>2010</b> , 73, 1189-95	7	35
86	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
85	Is the combination of nanofiltration membranes and AOPs for removing microcontaminants cost effective in real municipal wastewater effluents?. <i>Environmental Science: Water Research and Technology</i> , <b>2016</b> , 2, 511-520	4.2	34
84	Simultaneous Determination of Oxygen Consumption Rate and Volumetric Oxygen Transfer Coefficient in Pneumatically Agitated Bioreactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 1167-1171	3.9	34
83	Detailed treatment line for a specific landfill leachate remediation. Brief economic assessment. <i>Chemical Engineering Journal</i> , <b>2015</b> , 261, 60-66	14.7	33
82	Inactivation of <i>E. coli</i> and <i>E. faecalis</i> by solar photo-Fenton with EDDS complex at neutral pH in municipal wastewater effluents. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 372, 85-93	12.8	33
81	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
80	Pre-industrial-scale Combined Solar Photo-Fenton and Immobilized Biomass Activated-Sludge Biotreatment. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 7467-7475	3.9	32
79	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
78	Hydrogen peroxide automatic dosing based on dissolved oxygen concentration during solar photo-Fenton. <i>Catalysis Today</i> , <b>2011</b> , 161, 247-254	5.3	30

77	New trend on open solar photoreactors to treat micropollutants by photo-Fenton at circumneutral pH: Increasing optical pathway. <i>Chemical Engineering Journal</i> , <b>2020</b> , 385, 123982	14.7	30
76	Advanced treatment of urban wastewater by UV-C/free chlorine process: Micro-pollutants removal and effect of UV-C radiation on trihalomethanes formation. <i>Water Research</i> , <b>2020</b> , 169, 115220	12.5	30
75	Contaminants of emerging concern removal from real wastewater by UV/free chlorine process: A comparison with solar/free chlorine and UV/HO at pilot scale. <i>Chemosphere</i> , <b>2019</b> , 236, 124354	8.4	28
74	Optimization of mild solar TiO <sub>2</sub> photocatalysis as a tertiary treatment for municipal wastewater treatment plant effluents. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 128, 119-125	21.8	26
73	Influence of iron leaching and oxidizing agent employed on solar photodegradation of phenol over nanostructured iron-doped titania catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 144, 269-276	21.8	25
72	Determination of pesticides in sewage sludge from an agro-food industry using QuEChERS extraction followed by analysis with liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 6181-6193	4.4	25
71	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
70	Removal of microcontaminants from MWTP effluents by combination of membrane technologies and solar photo-Fenton at neutral pH. <i>Catalysis Today</i> , <b>2015</b> , 252, 78-83	5.3	23
69	Photocatalytic treatment of dimethoate by solar photocatalysis at pilot plant scale. <i>Environmental Chemistry Letters</i> , <b>2005</b> , 3, 118-121	13.3	23
68	Synthetic fresh-cut wastewater disinfection and decontamination by ozonation at pilot scale. <i>Water Research</i> , <b>2020</b> , 170, 115304	12.5	22
67	Photo-Fenton treatment of saccharin in a solar pilot compound parabolic collector: Use of olive mill wastewater as iron chelating agent, preliminary results. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 372, 137-144	12.8	22
66	The influence of location on solar photo-Fenton: Process performance, photoreactor scaling-up and treatment cost. <i>Renewable Energy</i> , <b>2020</b> , 145, 1890-1900	8.1	22
65	Monitoring photolysis and (solar photo)-Fenton of enrofloxacin by a methodology involving EEM-PARAFAC and bioassays: Role of pH and water matrix. <i>Science of the Total Environment</i> , <b>2020</b> , 719, 137331	10.2	21
64	Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO <sub>2</sub> and persulfate: A pilot plant study. <i>Catalysis Today</i> , <b>2019</b> , 328, 216-222	5.3	21
63	Application of solar photo-Fenton at circumneutral pH to nanofiltration concentrates for removal of pharmaceuticals in MWTP effluents. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 846-55	5.1	20
62	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
61	Detoxification of aqueous solutions of the pesticide Bevnoll by solar photocatalysis. <i>Environmental Chemistry Letters</i> , <b>2006</b> , 3, 169-172	13.3	18
60	Commercial fertilizer as effective iron chelate (Fe <sup>3+</sup> -EDDHA) for wastewater disinfection under natural sunlight for reusing in irrigation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 253, 286-292	21.8	16

59	UVC-based advanced oxidation processes for simultaneous removal of microcontaminants and pathogens from simulated municipal wastewater at pilot plant scale. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 2553-2566	4.2	15
58	Solar light assisted photodegradation of phenol with hydrogen peroxide over iron-doped titania catalysts: Role of iron leached/readsorbed species. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 108-109, 168-176	21.8	15
57	Photo-Fenton applied to the removal of pharmaceutical and other pollutants of emerging concern. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2021</b> , 29, 100458	7.9	15
56	Assessment of a pilot solar V-trough reactor for solar water disinfection. <i>Chemical Engineering Journal</i> , <b>2020</b> , 399, 125719	14.7	14
55	Cork boiling wastewater treatment and reuse through combination of advanced oxidation technologies. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 6317-6328	5.1	14
54	Natural chelating agents from olive mill wastewater to enable photo-Fenton-like reactions at natural pH. <i>Catalysis Today</i> , <b>2019</b> , 328, 281-285	5.3	14
53	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
52	Electro-oxidation process assisted by solar energy for the treatment of wastewater with high salinity. <i>Science of the Total Environment</i> , <b>2020</b> , 705, 135831	10.2	13
51	New approaches to solar Advanced Oxidation Processes for elimination of priority substances based on electrooxidation and ozonation at pilot plant scale. <i>Catalysis Today</i> , <b>2020</b> , 355, 844-850	5.3	13
50	Practical approach to the evaluation of industrial wastewater treatment by the application of advanced microbiological techniques. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 166, 123-131	7	13
49	Microbiological evaluation of combined advanced chemical-biological oxidation technologies for the treatment of cork boiling wastewater. <i>Science of the Total Environment</i> , <b>2019</b> , 687, 567-576	10.2	12
48	Confirming <i>Pseudomonas putida</i> as a reliable bioassay for demonstrating biocompatibility enhancement by solar photo-oxidative processes of a biorecalcitrant effluent. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 162, 1223-7	12.8	12
47	Electrochemically assisted photocatalysis for the simultaneous degradation of organic micro-contaminants and inactivation of microorganisms in water. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 147, 488-496	5.5	12
46	Simultaneous removal of contaminants of emerging concern and pathogens from urban wastewater by homogeneous solar driven advanced oxidation processes. <i>Science of the Total Environment</i> , <b>2021</b> , 766, 144320	10.2	11
45	Advanced evaluation of landfill leachate treatments by low and high-resolution mass spectrometry focusing on microcontaminant removal. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121372	12.8	11
44	Fresh-cut wastewater reclamation: Techno-Economical assessment of solar driven processes at pilot plant scale. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119334	21.8	10
43	Nanofiltration retentate treatment from urban wastewater secondary effluent by solar electrochemical oxidation processes. <i>Separation and Purification Technology</i> , <b>2021</b> , 254, 117614	8.3	10
42	Aluminized surface to improve solar light absorption in open reactors: Application for micropollutants removal in effluents from municipal wastewater treatment plants. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 142624	10.2	10

41	Application of a multivariate analysis method for non-target screening detection of persistent transformation products during the cork boiling wastewater treatment. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 508-517	10.2	9
40	Monitoring and Removal of Organic Micro-contaminants by Combining Membrane Technologies with Advanced Oxidation Processes. <i>Current Organic Chemistry</i> , <b>2018</b> , 22, 1103-1119	1.7	9
39	Advanced Oxidation Processes as sustainable technologies for the reduction of elderberry agro-industrial water impact. <i>Water Resources and Industry</i> , <b>2020</b> , 24, 100137	4.5	9
38	Effect of salinity on preconcentration of contaminants of emerging concern by nanofiltration: Application of solar photo-Fenton as a tertiary treatment. <i>Science of the Total Environment</i> , <b>2021</b> , 756, 143593	10.2	9
37	Overview on Pilot-Scale Treatments and New and Innovative Technologies for Hospital Effluent. <i>Handbook of Environmental Chemistry</i> , <b>2017</b> , 209-230	0.8	8
36	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
35	Modeling persulfate activation by iron and heat for the removal of contaminants of emerging concern using carbamazepine as model pollutant. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124445	14.7	6
34	Optimal performance assessment for a photo-Fenton degradation pilot plant driven by solar energy using artificial neural networks. <i>International Journal of Energy Research</i> , <b>2012</b> , 36, 1314-1324	4.5	6
33	Scale-up impact over solar photocatalytic ozonation with benchmark-P25 and N-TiO <sub>2</sub> for insecticides abatement in water. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104915	6.8	6
32	Sunlight advanced oxidation processes vs ozonation for wastewater disinfection and safe reclamation. <i>Science of the Total Environment</i> , <b>2021</b> , 787, 147531	10.2	6
31	Direct oxidation of peroxymonosulfate under natural solar radiation: Accelerating the simultaneous removal of organic contaminants and pathogens from water. <i>Chemosphere</i> , <b>2021</b> , 279, 130555	8.4	6
30	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
29	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
28	Magnetic Photocatalyst for Wastewater Tertiary Treatment at Pilot Plant Scale: Disinfection and Enrofloxacin Abatement. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 329	3	5
27	Solar photo-assisted electrochemical processes applied to actual industrial and urban wastewaters: A practical approach based on recent literature. <i>Chemosphere</i> , <b>2021</b> , 279, 130560	8.4	5
26	Contribution of temperature and photon absorption on solar photo-Fenton mediated by Fe <sup>3+</sup> -NTA for CEC removal in municipal wastewater. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120251	21.8	5
25	Solar photo-Fenton at circumneutral pH using Fe(III)-EDDS compared to ozonation for tertiary treatment of urban wastewater: Contaminants of emerging concern removal and toxicity assessment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133474	14.7	4
24	Fluorescence Spectroscopy and Chemometrics: A Simple and Easy Way for the Monitoring of Fluoroquinolone Mixture Degradation. <i>ACS Omega</i> , <b>2021</b> , 6, 4663-4671	3.9	4



23	Carbon-based cathodes degradation during electro-Fenton treatment at pilot scale: Changes in HO <sub>2</sub> electrogeneration. <i>Chemosphere</i> , <b>2021</b> , 275, 129962	8.4	4
22	Olive mill wastewater reuse to enable solar photo-Fenton-like processes for the elimination of priority substances in municipal wastewater treatment plant effluents. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 38148-38154	5.1	3
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