

Pilar Fernandez-Ibaez

List of Publications by Citations

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153
papers

10,063
citations

53
h-index

98
g-index

166
ext. papers

11,214
ext. citations

8.8
avg. IF

6.44
L-index

#	Paper	IF	Citations
153	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , 2009 , 147, 1-59	5.3	2187
152	Solar photocatalysis: Materials, reactors, some commercial, and pre-industrialized applications. A comprehensive approach. <i>Applied Catalysis B: Environmental</i> , 2015 , 170-171, 90-123	21.8	441
151	Solar water disinfection (SODIS): a review from bench-top to roof-top. <i>Journal of Hazardous Materials</i> , 2012 , 235-236, 29-46	12.8	324
150	A critical review on application of photocatalysis for toxicity reduction of real wastewaters. <i>Journal of Cleaner Production</i> , 2020 , 258, 120694	10.3	250
149	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , 2007 , 122, 137-149	5.3	215
148	Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction Part 1: A review of the mechanisms and the fundamental aspects of the process. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 199-223	21.8	191
147	Engineering of solar photocatalytic collectors. <i>Solar Energy</i> , 2004 , 77, 513-524	6.8	190
146	Application of the colloidal stability of TiO ₂ particles for recovery and reuse in solar photocatalysis. <i>Water Research</i> , 2003 , 37, 3180-8	12.5	190
145	Solar Photocatalytic Detoxification and Disinfection of Water: Recent Overview. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007 , 129, 4-15	2.3	161
144	Photocatalytic Enhancement for Solar Disinfection of Water: A Review. <i>International Journal of Photoenergy</i> , 2011 , 2011, 1-12	2.1	151
143	Solar photocatalysis for water disinfection: materials and reactor design. <i>Catalysis Science and Technology</i> , 2014 , 4, 1211-1226	5.5	149
142	A review of heterogeneous photocatalysis for water and surface disinfection. <i>Molecules</i> , 2015 , 20, 5574-5615	6.85	148
141	Water disinfection by solar photocatalysis using compound parabolic collectors. <i>Catalysis Today</i> , 2005 , 101, 345-352	5.3	148
140	Solar treatment (HO, TiO ₂ -P25 and GO-TiO photocatalysis, photo-Fenton) of organic micropollutants, human pathogen indicators, antibiotic resistant bacteria and related genes in urban wastewater. <i>Water Research</i> , 2018 , 135, 195-206	12.5	145
139	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1437-1445	16.2	145
138	Solar photocatalytic disinfection of water using titanium dioxide graphene composites. <i>Chemical Engineering Journal</i> , 2015 , 261, 36-44	14.7	128
137	Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction Part 2: A review of the applications for drinking water and wastewater disinfection. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 431-446	21.8	126

136	Effect of UV solar intensity and dose on the photocatalytic disinfection of bacteria and fungi. <i>Catalysis Today</i> , 2007 , 129, 152-160	5.3	122
135	Decontamination and disinfection of water by solar photocatalysis: The pilot plants of the Plataforma Solar de Almeria. <i>Materials Science in Semiconductor Processing</i> , 2016 , 42, 15-23	4.3	117
134	Nitrogen and copper doped solar light active TiO ₂ photocatalysts for water decontamination. <i>Applied Catalysis B: Environmental</i> , 2013 , 130-131, 8-13	21.8	116
133	Degradation of pesticides in water using solar advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 272-281	21.8	114
132	Solar photo-Fenton treatment Process parameters and process control. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 121-130	21.8	113
131	Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. <i>Water Research</i> , 2006 , 40, 1086-94	12.5	112
130	Disinfection of real and simulated urban wastewater effluents using a mild solar photo-Fenton. <i>Applied Catalysis B: Environmental</i> , 2014 , 150-151, 619-629	21.8	111
129	Bactericidal effect of solar water disinfection under real sunlight conditions. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2997-3001	4.8	110
128	Mechanism of photocatalytic disinfection using titania-graphene composites under UV and visible irradiation. <i>Chemical Engineering Journal</i> , 2017 , 316, 179-186	14.7	105
127	Optimising solar photocatalytic mineralisation of pesticides by adding inorganic oxidising species; application to the recycling of pesticide containers. <i>Applied Catalysis B: Environmental</i> , 2000 , 28, 163-174	21.8	105
126	Solar photocatalytic disinfection of agricultural pathogenic fungi: Fusarium species. <i>Applied Catalysis B: Environmental</i> , 2007 , 74, 152-160	21.8	104
125	Bacteria and fungi inactivation using Fe ³⁺ /sunlight, H ₂ O ₂ /sunlight and near neutral photo-Fenton: A comparative study. <i>Applied Catalysis B: Environmental</i> , 2012 , 121-122, 20-29	21.8	102
124	Inactivation and regrowth of multidrug resistant bacteria in urban wastewater after disinfection by solar-driven and chlorination processes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 148, 43-50	6.7	96
123	Urban wastewater disinfection for agricultural reuse: effect of solar driven AOPs in the inactivation of a multidrug resistant E. coli strain. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 65-73	21.8	92
122	Effects of experimental conditions on E. coli survival during solar photocatalytic water disinfection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 189, 239-246	4.7	91
121	Solar photocatalysis: A green technology for E. coli contaminated water disinfection. Effect of concentration and different types of suspended catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 276, 31-40	4.7	90
120	Solar disinfection of drinking water (SODIS): an investigation of the effect of UV-A dose on inactivation efficiency. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 587-95	4.2	89
119	Solar Advanced Oxidation Processes as disinfection tertiary treatments for real wastewater: Implications for water reclamation. <i>Applied Catalysis B: Environmental</i> , 2013 , 136-137, 341-350	21.8	84

118	Solar disinfection of wastewater to reduce contamination of lettuce crops by Escherichia coli in reclaimed water irrigation. <i>Water Research</i> , 2012 , 46, 6040-50	12.5	82
117	Photocatalytic degradation of EU priority substances: A comparison between TiO ₂ and Fenton plus photo-Fenton in a solar pilot plant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 185, 354-363	4.7	80
116	Batch solar disinfection inactivates oocysts of <i>Cryptosporidium parvum</i> and cysts of <i>Giardia muris</i> in drinking water. <i>Journal of Applied Microbiology</i> , 2006 , 101, 453-63	4.7	80
115	Solar photocatalytic disinfection of water with immobilised titanium dioxide in re-circulating flow CPC reactors. <i>Applied Catalysis B: Environmental</i> , 2012 , 128, 126-134	21.8	76
114	Tertiary treatment of urban wastewater by solar and UV-C driven advanced oxidation with peracetic acid: Effect on contaminants of emerging concern and antibiotic resistance. <i>Water Research</i> , 2019 , 149, 272-281	12.5	71
113	Reduction of clarithromycin and sulfamethoxazole-resistant <i>Enterococcus</i> by pilot-scale solar-driven Fenton oxidation. <i>Science of the Total Environment</i> , 2014 , 468-469, 19-27	10.2	68
112	Photocatalytic disinfection of natural well water contaminated by <i>Fusarium solani</i> using TiO ₂ slurry in solar CPC photo-reactors. <i>Catalysis Today</i> , 2009 , 144, 62-68	5.3	66
111	Supported Fe/C and Fe/Nafion/C catalysts for the photo-Fenton degradation of Orange II under solar irradiation. <i>Catalysis Today</i> , 2005 , 101, 375-382	5.3	66
110	Intracellular mechanisms of solar water disinfection. <i>Scientific Reports</i> , 2016 , 6, 38145	4.9	66
109	Disinfection of urban effluents using solar TiO ₂ photocatalysis: A study of significance of dissolved oxygen, temperature, type of microorganism and water matrix. <i>Catalysis Today</i> , 2015 , 240, 30-38	5.3	65
108	Disinfection of drinking water contaminated with <i>Cryptosporidium parvum</i> oocysts under natural sunlight and using the photocatalyst TiO ₂ . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007 , 88, 105-11	6.7	65
107	Investigating the microbial inactivation efficiency of a 25 L batch solar disinfection (SODIS) reactor enhanced with a compound parabolic collector (CPC) for household use. <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 1028-1037	3.5	64
106	Effectiveness of solar disinfection using batch reactors with non-imaging aluminium reflectors under real conditions: Natural well-water and solar light. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008 , 93, 155-61	6.7	62
105	Relationship between TiO ₂ particle size and reactor diameter in solar photoreactors efficiency. <i>Catalysis Today</i> , 1999 , 54, 195-204	5.3	61
104	Photoelectrochemical reactors for the solar decontamination of water. <i>Catalysis Today</i> , 1999 , 54, 329-339	3.3	59
103	Photocatalytic disinfection of water using low cost compound parabolic collectors. <i>Solar Energy</i> , 2004 , 77, 625-633	6.8	56
102	Mild solar photo-Fenton: An effective tool for the removal of <i>Fusarium</i> from simulated municipal effluents. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 545-554	21.8	55
101	Lethal synergy of solar UV-radiation and H ₂ O ₂ on wild <i>Fusarium solani</i> spores in distilled and natural well water. <i>Water Research</i> , 2009 , 43, 1841-50	12.5	55

100	Inactivation of natural enteric bacteria in real municipal wastewater by solar photo-Fenton at neutral pH. <i>Water Research</i> , 2014 , 63, 316-24	12.5	53
99	Water disinfection using photo-Fenton: Effect of temperature on <i>Enterococcus faecalis</i> survival. <i>Water Research</i> , 2012 , 46, 6154-62	12.5	53
98	Cross-Contamination of Residual Emerging Contaminants and Antibiotic Resistant Bacteria in Lettuce Crops and Soil Irrigated with Wastewater Treated by Sunlight/H ₂ O ₂ . <i>Environmental Science & Technology</i> , 2015 , 49, 11096-104	10.3	52
97	Titanium Dioxide/Electrolyte Solution Interface: Electron Transfer Phenomena. <i>Journal of Colloid and Interface Science</i> , 2000 , 227, 510-516	9.3	49
96	Solar disinfection of fungal spores in water aided by low concentrations of hydrogen peroxide. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 381-8	4.2	47
95	Elimination of water pathogens with solar radiation using an automated sequential batch CPC reactor. <i>Journal of Hazardous Materials</i> , 2011 , 196, 16-21	12.8	44
94	New large solar photocatalytic plant: set-up and preliminary results. <i>Chemosphere</i> , 2002 , 47, 235-40	8.4	44
93	Disinfection of water inoculated with <i>Enterococcus faecalis</i> using solar/Fe(III)EDDS-HO or SO process. <i>Water Research</i> , 2017 , 118, 249-260	12.5	43
92	Treatment of chlorinated solvents by TiO ₂ photocatalysis and photo-Fenton: influence of operating conditions in a solar pilot plant. <i>Chemosphere</i> , 2005 , 58, 391-8	8.4	43
91	Solar photo-Fenton for water disinfection: An investigation of the competitive role of model organic matter for oxidative species. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 484-489	21.8	42
90	Assessment of solar photocatalysis using Ag/BiVO ₄ at pilot solar Compound Parabolic Collector for inactivation of pathogens in well water and secondary effluents. <i>Catalysis Today</i> , 2017 , 281, 124-134	5.3	41
89	Mechanistic model of the <i>Escherichia coli</i> inactivation by solar disinfection based on the photo-generation of internal ROS and the photo-inactivation of enzymes: CAT and SOD. <i>Chemical Engineering Journal</i> , 2017 , 318, 214-223	14.7	40
88	Assessment of solar photo-Fenton, photocatalysis, and H ₂ O ₂ for removal of phytopathogen fungi spores in synthetic and real effluents of urban wastewater. <i>Chemical Engineering Journal</i> , 2014 , 257, 122-130	14.7	39
87	Resistance of <i>Fusarium</i> sp spores to solar TiO ₂ photocatalysis: influence of spore type and water (scaling-up results). <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 1038-1048	3.5	38
86	Validation and application of a multiresidue method based on liquid chromatography-tandem mass spectrometry for evaluating the plant uptake of 74 microcontaminants in crops irrigated with treated municipal wastewater. <i>Journal of Chromatography A</i> , 2018 , 1534, 10-21	4.5	37
85	Mechanistic modeling of UV and mild-heat synergistic effect on solar water disinfection. <i>Chemical Engineering Journal</i> , 2017 , 316, 111-120	14.7	36
84	Inactivation of <i>Enterococcus faecalis</i> in simulated wastewater treatment plant effluent by solar photo-Fenton at initial neutral pH. <i>Catalysis Today</i> , 2013 , 209, 195-200	5.3	36
83	Determination of organic microcontaminants in agricultural soils irrigated with reclaimed wastewater: Target and suspect approaches. <i>Analytica Chimica Acta</i> , 2018 , 1030, 115-124	6.6	36

82	Investigating the impact of UV-C/H ₂ O ₂ and sunlight/H ₂ O ₂ on the removal of antibiotics, antibiotic resistance determinants and toxicity present in urban wastewater. <i>Chemical Engineering Journal</i> , 2020 , 388, 124383	14.7	35
81	Evaluation of solar disinfection of E. coli under Sub-Saharan field conditions using a 25L borosilicate glass batch reactor fitted with a compound parabolic collector. <i>Solar Energy</i> , 2014 , 100, 195-202	6.8	35
80	Benefits of photo-Fenton at low concentrations for solar disinfection of distilled water. A case study: <i>Phytophthora capsici</i> . <i>Catalysis Today</i> , 2013 , 209, 181-187	5.3	35
79	Capability of 19-L polycarbonate plastic water cooler containers for efficient solar water disinfection (SODIS): Field case studies in India, Bahrain and Spain. <i>Solar Energy</i> , 2015 , 116, 1-11	6.8	34
78	Inactivation of E. coli and E. faecalis by solar photo-Fenton with EDDS complex at neutral pH in municipal wastewater effluents. <i>Journal of Hazardous Materials</i> , 2019 , 372, 85-93	12.8	33
77	Principal parameters affecting virus inactivation by the solar photo-Fenton process at neutral pH and M concentrations of H ₂ O ₂ and Fe ²⁺ /3+. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 395-402	21.8	33
76	Wastewater disinfection by neutral pH photo-Fenton: The role of solar radiation intensity. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 1-6	21.8	32
75	Efficacy of the solar water disinfection method in turbid waters experimentally contaminated with <i>Cryptosporidium parvum</i> oocysts under real field conditions. <i>Tropical Medicine and International Health</i> , 2009 , 14, 620-7	2.3	30
74	A preliminary Ames fluctuation assay assessment of the genotoxicity of drinking water that has been solar disinfected in polyethylene terephthalate (PET) bottles. <i>Journal of Water and Health</i> , 2010 , 8, 712-9	2.2	27
73	Optimization of mild solar TiO ₂ photocatalysis as a tertiary treatment for municipal wastewater treatment plant effluents. <i>Applied Catalysis B: Environmental</i> , 2012 , 128, 119-125	21.8	26
72	Validation of a solar-thermal water disinfection model for <i>Escherichia coli</i> inactivation in pilot scale solar reactors and real conditions. <i>Chemical Engineering Journal</i> , 2018 , 331, 831-840	14.7	24
71	Solar photocatalytic disinfection with immobilised TiO ₂ at pilot-plant scale. <i>Water Science and Technology</i> , 2010 , 61, 507-12	2.2	23
70	Photocatalytic treatment of dimethoate by solar photocatalysis at pilot plant scale. <i>Environmental Chemistry Letters</i> , 2005 , 3, 118-121	13.3	23
69	Solar photocatalytic disinfection of agricultural pathogenic fungi (<i>Curvularia</i> sp.) in real urban wastewater. <i>Science of the Total Environment</i> , 2017 , 607-608, 1213-1224	10.2	21
68	Predatory bacteria in combination with solar disinfection and solar photocatalysis for the treatment of rainwater. <i>Water Research</i> , 2020 , 169, 115281	12.5	21
67	Evaluation of the solar water disinfection process (SODIS) against <i>Cryptosporidium parvum</i> using a 25-L static solar reactor fitted with a compound parabolic collector (CPC). <i>American Journal of Tropical Medicine and Hygiene</i> , 2012 , 86, 223-8	3.2	20
66	Solar heterogeneous and homogeneous photocatalysis as a pre-treatment option for biotreatment. <i>Research on Chemical Intermediates</i> , 2007 , 33, 407-420	2.8	20
65	Assessing the validity of solar membrane distillation for disinfection of contaminated water. <i>Desalination and Water Treatment</i> , 2015 , 55, 2792-2799		19

64	A Comparative Study of Supported TiO ₂ as Photocatalyst in Water Decontamination at Solar Pilot Plant Scale. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2006 , 128, 331-337	2.3	19
63	Inactivation of water pathogens with solar photo-activated persulfate oxidation. <i>Chemical Engineering Journal</i> , 2020 , 381, 122275	14.7	19
62	Identification of transformation products of carbamazepine in lettuce crops irrigated with Ultraviolet-C treated water. <i>Environmental Pollution</i> , 2019 , 247, 1009-1019	9.3	18
61	Reclamation of Real Urban Wastewater Using Solar Advanced Oxidation Processes: An Assessment of Microbial Pathogens and 74 Organic Microcontaminants Uptake in Lettuce and Radish. <i>Environmental Science & Technology</i> , 2019 , 53, 9705-9714	10.3	18
60	Integration of Membrane Distillation with solar photo-Fenton for purification of water contaminated with Bacillus sp. and Clostridium sp. spores. <i>Science of the Total Environment</i> , 2017 , 595, 110-118	10.2	17
59	Speeding up the solar water disinfection process (SODIS) against Cryptosporidium parvum by using 2.5l static solar reactors fitted with compound parabolic concentrators (CPCs). <i>Acta Tropica</i> , 2012 , 124, 235-42	3.2	17
58	Photo-Fenton degradation of alachlor, atrazine, chlorfenvinphos, diuron, isoproturon and pentachlorophenol at solar pilot plant. <i>International Journal of Environment and Pollution</i> , 2006 , 27, 135	0.7	17
57	UV solar radiation on a tilted and horizontal plane: Analysis and comparison of 4 years of measurements. <i>Solar Energy</i> , 2012 , 86, 307-318	6.8	16
56	Organic Microcontaminants in Tomato Crops Irrigated with Reclaimed Water Grown under Field Conditions: Occurrence, Uptake, and Health Risk Assessment. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 6930-6939	5.7	15
55	Photocatalytic inactivation of the waterborne protozoan parasite Cryptosporidium parvum using TiO ₂ / H ₂ O ₂ under simulated and natural solar conditions. <i>Catalysis Today</i> , 2017 , 280, 132-138	5.3	15
54	Assessment of a pilot solar V-trough reactor for solar water disinfection. <i>Chemical Engineering Journal</i> , 2020 , 399, 125719	14.7	14
53	Solar photocatalytic inactivation of Fusarium Solani over TiO ₂ nanomaterials with controlled morphology formic acid effect. <i>Catalysis Today</i> , 2013 , 209, 147-152	5.3	14
52	Treatment of 2,4-Dichlorophenol by Solar Photocatalysis: Comparison of Coupled Photocatalytic-Active Carbon vs. Active Carbon. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2001 , 123, 138-142	2.3	14
51	Validation of large-volume batch solar reactors for the treatment of rainwater in field trials in sub-Saharan Africa. <i>Science of the Total Environment</i> , 2020 , 717, 137223	10.2	13
50	Comparison of different solar reactors for household disinfection of drinking water in developing countries: evaluation of their efficacy in relation to the waterborne enteropathogen Cryptosporidium parvum. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2012 , 106, 645-52	2	13
49	Electrochemically assisted photocatalysis for the disinfection of rainwater under solar irradiation. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119485	21.8	13
48	Drinking water treatment by multistage filtration on a household scale: Efficiency and challenges. <i>Water Research</i> , 2020 , 178, 115816	12.5	12
47	Legionella jordanis inactivation in water by solar driven processes: EMA-qPCR versus culture-based analyses for new mechanistic insights. <i>Catalysis Today</i> , 2017 , 287, 15-21	5.3	12

46	Solar water disinfection (SODIS): Impact on hepatitis A virus and on a human Norovirus surrogate under natural solar conditions. <i>International Microbiology</i> , 2015 , 18, 41-9	3	12
45	Electrochemically assisted photocatalysis for the simultaneous degradation of organic micro-contaminants and inactivation of microorganisms in water. <i>Chemical Engineering Research and Design</i> , 2021 , 147, 488-496	5.5	12
44	Effect of iron salt counter ion in dose-response curves for inactivation of <i>Fusarium solani</i> in water through solar driven Fenton-like processes. <i>Physics and Chemistry of the Earth</i> , 2016 , 91, 46-52	3	11
43	Microbiological Evaluation of 5 L- and 20 L-Transparent Polypropylene Buckets for Solar Water Disinfection (SODIS). <i>Molecules</i> , 2019 , 24,	4.8	11
42	Hydrogen from wastewater by photocatalytic and photoelectrochemical treatment. <i>JPhys Energy</i> , 2021 , 3, 012006	4.9	11
41	A comparison of prototype compound parabolic collector-reactors (CPC) on the road to SOLARDETOX technology. <i>Water Science and Technology</i> , 2001 , 44, 271-278	2.2	9
40	UV-A (315-400nm) irradiance from measurements at 380nm for solar water treatment and disinfection: Comparison between model and measurements in Buenos Aires, Argentina and Almería, Spain. <i>Solar Energy</i> , 2009 , 83, 280-286	6.8	7
39	A Review of Photoelectrocatalytic Reactors for Water and Wastewater Treatment. <i>Water (Switzerland)</i> , 2021 , 13, 1198	3	6
38	Hepatitis A Virus Disinfection in Water by Solar Photo-Fenton Systems. <i>Food and Environmental Virology</i> , 2018 , 10, 159-166	4	5
37	Nanotechnology for Sustainable Manufacturing		5
36	Photocatalytic Inactivation of <i>Enterobacter cloacae</i> and <i>Escherichia coli</i> Using Titanium Dioxide Supported on Two Substrates. <i>Processes</i> , 2018 , 6, 137	2.9	4
35	Conventional and New Processes for Urban Wastewater Disinfection: Effect on Emerging and Resistant Microorganisms. <i>Handbook of Environmental Chemistry</i> , 2015 , 107-128	0.8	3
34	EMA-amplicon-based sequencing informs risk assessment analysis of water treatment systems. <i>Science of the Total Environment</i> , 2020 , 743, 140717	10.2	3
33	Can solar water-treatment really help in the fight against water shortages?. <i>Europhysics News</i> , 2017 , 48, 26-30	0.2	3
32	Advanced Technologies for Emerging Contaminants Removal in Urban Wastewater. <i>Handbook of Environmental Chemistry</i> , 2014 , 145-169	0.8	3
31	Solar Photocatalytic Pilot Plants: Commercially Available Reactors 2013 , 377-397		3
30	A critical overview of household slow sand filters for water treatment. <i>Water Research</i> , 2022 , 208, 117870	1.5	3
29	Interfase Líquido/Electrolito: Fenómeno de transferencia de electrones. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2000 , 39, 498-502	1.9	3

28	CHAPTER 4:Solar Photocatalysis: Fundamentals, Reactors and Applications. <i>RSC Energy and Environment Series</i> , 2016 , 92-129	0.6	3
27	Household water purification system comprising cartridge filtration, UVC disinfection and chlorination to treat turbid raw water. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102203	6.7	3
26	Homogeneous Fenton and Photo-Fenton Disinfection of Surface and Groundwater. <i>Handbook of Environmental Chemistry</i> , 2018 , 155-177	0.8	2
25	Solar Photocatalytic Processes: Water Decontamination and Disinfection 2013 , 371-393		2
24	Technologies for Advanced Wastewater Treatment in the Mediterranean Region. <i>Handbook of Environmental Chemistry</i> , 2010 , 1-28	0.8	2
23	Introduction by guest editors. <i>Catalysis Today</i> , 2005 , 101, 185-186	5.3	2
22	Sustainable Water Management		2
21	Sustainable Water Technologies		2
20	CHAPTER 3:Solar Photocatalytic Disinfection of Water. <i>RSC Energy and Environment Series</i> , 2016 , 72-91	0.6	2
19	CHAPTER 6:Process Integration. Concepts of Integration and Coupling of Photocatalysis with Other Processes. <i>RSC Energy and Environment Series</i> , 2016 , 157-173	0.6	2
18	Podoviridae bacteriophage for the biocontrol of <i>Pseudomonas aeruginosa</i> in rainwater. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 87-102	4.2	2
17	Household slow sand filters in continuous and intermittent flows and their efficiency in microorganismS removal from river water. <i>Environmental Technology (United Kingdom)</i> , 2020 , 1-10	2.6	2
16	Household slow sand filter efficiency with evaluation by microsensors. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-12	2.6	2
15	Meeting daily drinking water needs for communities in Sub-Saharan Africa using solar reactors for harvested rainwater. <i>Chemical Engineering Journal</i> , 2021 , 428, 132494	14.7	2
14	Conceptualising global water challenges: A transdisciplinary approach for understanding different discourses in sustainable development. <i>Journal of Environmental Management</i> , 2021 , 298, 113361	7.9	2
13	Photocatalytic inactivation of microorganisms in water 2020 , 229-248		1
12	Approaches to Water and Wastewater Treatment for Removal of Emerging Contaminants: Ongoing Research and Recommendations for Future Work 2014 , 161-178		1
11	Synthesis Design of TiO ₂ Nanotubes and Nanowires and Photocatalytic Applications in the Degradation of Organic Pollutants in the Presence or not of Microorganisms. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1442, 13		1

10	Assessment of low-cost cartridge filters for implementation in household drinking water treatment systems. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101710	6.7	1
9	Worldwide Research Trends on Solar-Driven Water Disinfection. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
8	UVC inactivation of MS2-phage in drinking water - Modelling and field testing. <i>Water Research</i> , 2021 , 203, 117496	12.5	1
7	New trends on photoelectrocatalysis (PEC): nanomaterials, wastewater treatment and hydrogen generation. <i>Current Opinion in Chemical Engineering</i> , 2021 , 34, 100725	5.4	1
6	Safe drinking water for rural communities using a low-cost household system. Effects of water matrix and field testing. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102400	6.7	0
5	Biological Layer in Household Slow Sand Filters: Characterization and Evaluation of the Impact on Systems Efficiency. <i>Water (Switzerland)</i> , 2022 , 14, 1078	3	0
4	An investigation of photoelectrocatalytic disinfection of water using titania nanotube photoanodes with carbon cathodes and determination of the radicals produced. <i>Applied Catalysis B: Environmental</i> , 2022 , 311, 121339	21.8	0
3	Photoelectrocatalytic degradation of pharmaceuticals and inactivation of viruses in water with tungsten oxide electrodes. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107955	6.8	0
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