

# Sixto Malato

## 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.

313  
papers

23,850  
citations

81  
h-index

143  
g-index

354  
ext. papers

25,967  
ext. citations

9.3  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
313	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
312	Valorization of UWWTP effluents for ammonium recovery and MC elimination by advanced AOPs.. <i>Science of the Total Environment</i> , <b>2022</b> , 823, 153693	10.2	1
311	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
310	Solar Detoxification and Disinfection of Water <b>2022</b> , 453-480		
309	Simultaneous disinfection and microcontaminants elimination of urban wastewater secondary effluent by solar advanced oxidation sequential treatment at pilot scale.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 436, 129134	12.8	1
308	Assessment of a Novel Photocatalytic TiO <sub>2</sub> -Zirconia Ultrafiltration Membrane and Combination with Solar Photo-Fenton Tertiary Treatment of Urban Wastewater. <i>Catalysts</i> , <b>2022</b> , 12, 552	4	1
307	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
306	Development of a Photocatalytic Zirconia-Titania Ultrafiltration Membrane with Anti-fouling and Self-cleaning Properties. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 106671	6.8	3
305	Solar-driven free chlorine advanced oxidation process for simultaneous removal of microcontaminants and microorganisms in natural water at pilot-scale. <i>Chemosphere</i> , <b>2021</b> , 288, 132493	8.4	2
304	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
303	Removal of pharmaceuticals in hospital wastewater by solar photo-Fenton with Fe <sup>3+</sup> -EDDS using a pilot raceway pond reactor: Transformation products and in silico toxicity assessment. <i>Microchemical Journal</i> , <b>2021</b> , 164, 106014	4.8	9
302	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
301	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
300	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
299	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
298	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
297	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

296	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
295	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
294	Solar processes and ozonation for fresh-cut wastewater reclamation and reuse: Assessment of chemical, microbiological and chlorosis risks of raw-eaten crops. <i>Water Research</i> , <b>2021</b> , 203, 117532	12.5	3
293	Impact of water matrix and oxidant agent on the solar assisted photodegradation of a complex mix of pesticides over titania-reduced graphene oxide nanocomposites. <i>Catalysis Today</i> , <b>2021</b> , 380, 114-124	5.3	4
292	Removal of Pharmaceutically Active Compounds (PhACs) in Wastewater by Ozone and Advanced Oxidation Processes. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 269-298	0.8	1
291	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
290	Solar photocatalytic degradation of pesticides over TiO <sub>2</sub> -rGO nanocomposites at pilot plant scale. <i>Science of the Total Environment</i> , <b>2020</b> , 737, 140286	10.2	26
289	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
288	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
287	Synthetic fresh-cut wastewater disinfection and decontamination by ozonation at pilot scale. <i>Water Research</i> , <b>2020</b> , 170, 115304	12.5	22
286	Best available technologies and treatment trains to address current challenges in urban wastewater reuse for irrigation of crops in EU countries. <i>Science of the Total Environment</i> , <b>2020</b> , 710, 136312	10.2	86
285	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
284	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
283	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
282	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
281	Removal and Degradation of Pharmaceutically Active Compounds (PhACs) in Wastewaters by Solar Advanced Oxidation Processes. <i>Handbook of Environmental Chemistry</i> , <b>2020</b> , 299-326	0.8	
280	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
279	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

278	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
277	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
276	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
275	On the design and operation of solar photo-Fenton open reactors for the removal of contaminants of emerging concern from WWTP effluents at neutral pH. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117801	21.8	18
274	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
273	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
272	Economic Assessment and Possible Industrial Application of a (Photo)catalytic Process <b>2019</b> , 235-267		1
271	Assessment of solar raceway pond reactors for removal of contaminants of emerging concern by photo-Fenton at circumneutral pH from very different municipal wastewater effluents. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 141-149	14.7	52
270	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> , <b>2019</b> , 372, 85-93	12.8	33
269	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
268	Hydrogen generation by irradiation of commercial CuO + TiO <sub>2</sub> mixtures at solar pilot plant scale and in presence of organic electron donors. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117890	21.8	16
267	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. <i>Science of the Total Environment</i> , <b>2019</b> , 655, 986-1008	10.2	319
266	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
265	Different approaches for the solar photocatalytic removal of micro-contaminants from aqueous environment: Titania vs. hybrid magnetic iron oxides. <i>Catalysis Today</i> , <b>2019</b> , 328, 164-171	5.3	15
264	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
263	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
262	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
261	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

260	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
259	Mechanistic modeling of solar photo-Fenton process with Fe <sup>3+</sup> -EDDS at neutral pH. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 234-242	21.8	40
258	Solar pilot plant scale hydrogen generation by irradiation of Cu/TiO <sub>2</sub> composites in presence of sacrificial electron donors. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 15-23	21.8	47
257	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
256	Selective photocatalytic oxidation of 5-hydroxymethyl-2-furfural in aqueous suspension of polymeric carbon nitride and its adduct with H <sub>2</sub> O <sub>2</sub> in a solar pilot plant. <i>Catalysis Today</i> , <b>2018</b> , 315, 138-148	5.3	35
255	Effect of volumetric rate of photon absorption on the kinetics of micropollutant removal by solar photo-Fenton with Fe <sup>3+</sup> -EDDS at neutral pH. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 84-92	14.7	33
254	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
253	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
252	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
251	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
250	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
249	Preface [Mat. for photocatalysis. <i>Catalysis Today</i> , <b>2017</b> , 284, 1-2	5.3	
248	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
247	Elimination of organic micro-contaminants in municipal wastewater by a combined immobilized biomass reactor and solar photo-Fenton tertiary treatment. <i>Journal of Advanced Oxidation Technologies</i> , <b>2017</b> , 20,		1
246	Fast determination of pesticides and other contaminants of emerging concern in treated wastewater using direct injection coupled to highly sensitive ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , <b>2017</b> , 1507, 84-94	4.5	75
245	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
244	Development of TiO <sub>2</sub> -C photocatalysts for solar treatment of polluted water. <i>Carbon</i> , <b>2017</b> , 122, 361-373	0.4	51
243	Legionella jordanis inactivation in water by solar driven processes: EMA-qPCR versus culture-based analyses for new mechanistic insights. <i>Catalysis Today</i> , <b>2017</b> , 287, 15-21	5.3	12

242	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
241	Assessment of solar photocatalysis using Ag/BiVO <sub>4</sub> at pilot solar Compound Parabolic Collector for inactivation of pathogens in well water and secondary effluents. <i>Catalysis Today</i> , <b>2017</b> , 281, 124-134	5.3	41
240	Comparison of UV/H <sub>2</sub> O <sub>2</sub> , UV/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> /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
239	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
238	Photocatalytic hydrogen production in a solar pilot plant using a Au/TiO <sub>2</sub> photo catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11933-11940	6.7	42
237	Performance of different advanced oxidation processes for tertiary wastewater treatment to remove the pesticide acetamiprid. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 72-81	3.5	48
236	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
235	Study of application of titania catalysts on solar photocatalysis: Influence of type of pollutants and water matrices. <i>Chemical Engineering Journal</i> , <b>2016</b> , 291, 64-73	14.7	53
234	Landfill leachate treatment: Comparison of standalone electrochemical degradation and combined with a novel biofilter. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 87-98	14.7	47
233	CHAPTER 4:Solar Photocatalysis: Fundamentals, Reactors and Applications. <i>RSC Energy and Environment Series</i> , <b>2016</b> , 92-129	0.6	3
232	CHAPTER 6:Process Integration. Concepts of Integration and Coupling of Photocatalysis with Other Processes. <i>RSC Energy and Environment Series</i> , <b>2016</b> , 157-173	0.6	2
231	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
230	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
229	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
228	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
227	Elimination of the iodinated contrast agent iohexol in water, wastewater and urine matrices by application of photo-Fenton and ultrasound advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , <b>2015</b> , 3, 2002-2009	6.8	17
226	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
225	COST Action ES1403: new and emerging challenges and opportunities in wastewater reuse (NEREUS). <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 7183-6	5.1	20

224	Degradation and monitoring of acetamiprid, thiabendazole and their transformation products in an agro-food industry effluent during solar photo-Fenton treatment in a raceway pond reactor. <i>Chemosphere</i> , <b>2015</b> , 130, 73-81	8.4	40
223	Advanced Oxidation Processes at Laboratory Scale: Environmental and Economic Impacts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3188-3196	8.3	49
222	Application of high intensity UVC-LED for the removal of acetamiprid with the photo-Fenton process. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 690-696	14.7	48
221	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
220	Coupling between high-frequency ultrasound and solar photo-Fenton at pilot scale for the treatment of organic contaminants: an initial approach. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 22, 527-34	8.9	30
219	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> , <b>2015</b> , 178, 210-217	21.8	44
218	Solar photocatalytic disinfection of water using titanium dioxide graphene composites. <i>Chemical Engineering Journal</i> , <b>2015</b> , 261, 36-44	14.7	128
217	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
216	Benefits and limitations of using Fe(III)-EDDS for the treatment of highly contaminated water at near-neutral pH. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 303-304, 1-7	4.7	38
215	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
214	Solar photocatalysis: Materials, reactors, some commercial, and pre-industrialized applications. A comprehensive approach. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 170-171, 90-123	21.8	441
213	Regeneration approaches for TiO <sub>2</sub> immobilized photocatalyst used in the elimination of emerging contaminants in water. <i>Catalysis Today</i> , <b>2014</b> , 230, 27-34	5.3	76
212	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
211	Microcontaminant removal by solar photo-Fenton at natural pH run with sequential and continuous iron additions. <i>Chemical Engineering Journal</i> , <b>2014</b> , 235, 132-140	14.7	33
210	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
209	New approach to solar photo-Fenton operation. Raceway ponds as tertiary treatment technology. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 279, 322-9	12.8	52
208	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
207	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

206	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> , <b>2014</b> , 478, 123-32	10.2	30
205	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
204	Approaches to Water and Wastewater Treatment for Removal of Emerging Contaminants: Ongoing Research and Recommendations for Future Work <b>2014</b> , 161-178		1
203	A comparison of the environmental impact of different AOPs: risk indexes. <i>Molecules</i> , <b>2014</b> , 20, 503-18	4.8	2
202	Advanced Technologies for Emerging Contaminants Removal in Urban Wastewater. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 145-169	0.8	3
201	Reduction of clarithromycin and sulfamethoxazole-resistant <i>Enterococcus</i> by pilot-scale solar-driven Fenton oxidation. <i>Science of the Total Environment</i> , <b>2014</b> , 468-469, 19-27	10.2	68
200	Solar photocatalysis: A green technology for <i>E. coli</i> contaminated water disinfection. Effect of concentration and different types of suspended catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2014</b> , 276, 31-40	4.7	90
199	Modelling micropollutant removal by solar photo-Fenton. <i>Global Nest Journal</i> , <b>2014</b> , 16, 445-454	1.4	2
198	Strategies for hydrogen peroxide dosing based on dissolved oxygen concentration for solar photo-Fenton treatment of complex wastewater. <i>Global Nest Journal</i> , <b>2014</b> , 16, 553-560	1.4	7
197	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> , <b>2013</b> , 88, 636-643	2.5	8
196	Solar Photocatalytic Processes: Water Decontamination and Disinfection <b>2013</b> , 371-393		2
195	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
194	Combined nanofiltration and photo-Fenton treatment of water containing micropollutants. <i>Chemical Engineering Journal</i> , <b>2013</b> , 224, 89-95	14.7	57
193	Light-induced catalytic transformation of ofloxacin by solar Fenton in various water matrices at a pilot plant: mineralization and characterization of major intermediate products. <i>Science of the Total Environment</i> , <b>2013</b> , 461-462, 39-48	10.2	54
192	2,4-Dichlorophenol degradation by means of heterogeneous photocatalysis. Comparison between laboratory and pilot plant performance. <i>Chemical Engineering Journal</i> , <b>2013</b> , 232, 405-417	14.7	8
191	Heterogeneous photocatalytic hydrogen generation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 12718-12724	6.7	45
190	Photo-Fenton and modified photo-Fenton at neutral pH for the treatment of emerging contaminants in wastewater treatment plant effluents: a comparison. <i>Water Research</i> , <b>2013</b> , 47, 833-40	12.5	203
189	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



188	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
187	Iron dosage as a strategy to operate the photo-Fenton process at initial neutral pH. <i>Chemical Engineering Journal</i> , <b>2013</b> , 224, 67-74	14.7	36
186	TiO <sub>2</sub> /Cu(II) photocatalytic production of benzaldehyde from benzyl alcohol in solar pilot plant reactor. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 136-137, 56-63	21.8	63
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46	Fe(III)-solar light induced degradation of diethyl phthalate (DEP) in aqueous solutions. <i>Chemosphere</i> , <b>2002</b> , 49, 525-32	8.4	78
45	Azo-dyes photocatalytic degradation in aqueous suspension of TiO <sub>2</sub> under solar irradiation. <i>Chemosphere</i> , <b>2002</b> , 49, 1223-30	8.4	182



44	Toxicity assays: a way for evaluating AOPs efficiency. <i>Water Research</i> , <b>2002</b> , 36, 4255-62	12.5	118
43	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> , <b>2001</b> , 123, 138-142	2.3	14
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41	A comparison of prototype compound parabolic collector-reactors (CPC) on the road to SOLARDETOX technology. <i>Water Science and Technology</i> , <b>2001</b> , 44, 271-278	2.2	9
40	Concentrating versus non-concentrating reactors for solar photocatalytic degradation of p-nitrotoluene-o-sulfonic acid. <i>Water Science and Technology</i> , <b>2001</b> , 44, 219-227	2.2	52
39	A comparison of prototype compound parabolic collector-reactors (CPC) on the road to SOLARDETOX technology. <i>Water Science and Technology</i> , <b>2001</b> , 44, 271-8	2.2	
38	Titanium Dioxide/Electrolyte Solution Interface: Electron Transfer Phenomena. <i>Journal of Colloid and Interface Science</i> , <b>2000</b> , 227, 510-516	9.3	49
37	Solar photocatalytic mineralization of commercial pesticides: Oxamyl. <i>Solar Energy Materials and Solar Cells</i> , <b>2000</b> , 64, 1-14	6.4	47
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35	Optimising solar photocatalytic mineralisation of pesticides by adding inorganic oxidising species; application to the recycling of pesticide containers. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 28, 163-174	21.8	105
34	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 25, 31-38	21.8	74
33	Solar photocatalytic mineralization of commercial pesticides: acrinathrin. <i>Chemosphere</i> , <b>2000</b> , 40, 403-9	8.4	51
32	Photocatalytic Pilot Scale Degradation Study of Pyrimethanil and of Its Main Degradation Products in Waters by Means of Solid-Phase Extraction Followed by Gas and Liquid Chromatography with Mass Spectrometry Detection. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 1563-1571	10.3	47
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30	Compound Parabolic Concentrator Technology Development To Commercial Solar Detoxification Applications <b>2000</b> , 427-436		
29	Solar photocatalytic decontamination of wastewater from the rinsing of pesticide containers. <i>European Physical Journal Special Topics</i> , <b>1999</b> , 09, Pr3-277-Pr3-282		4
28	Techno-economical assessment of solar detoxification systems with compound parabolic collectors. <i>European Physical Journal Special Topics</i> , <b>1999</b> , 09, Pr3-259-Pr3-264		2
27	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. <i>Solar Energy</i> , <b>1999</b> , 66, 169-182	6.8	120

26	The photo-fenton reaction and the TiO <sub>2</sub> /UV process for waste water treatment [Novel developments. <i>Catalysis Today</i> , <b>1999</b> , 53, 131-144	5.3	246
25	Comparison of various titania samples of industrial origin in the solar photocatalytic detoxification of water containing 4-chlorophenol. <i>Catalysis Today</i> , <b>1999</b> , 54, 217-228	5.3	128
24	Applicability of the Photo-Fenton method for treating water containing pesticides. <i>Catalysis Today</i> , <b>1999</b> , 54, 309-319	5.3	139
23	Solar driven degradation of 4-chlorophenol. <i>Catalysis Today</i> , <b>1999</b> , 54, 321-327	5.3	44
22	Compound parabolic concentrator technology development to commercial solar detoxification applications. <i>Solar Energy</i> , <b>1999</b> , 67, 317-330	6.8	108
21	Relationship between TiO <sub>2</sub> particle size and reactor diameter in solar photoreactors efficiency. <i>Catalysis Today</i> , <b>1999</b> , 54, 195-204	5.3	61
20	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. <i>Catalysis Today</i> , <b>1999</b> , 54, 255-265	5.3	161
19	Solar photodegradation of pesticides in water by sodium decatungstate. <i>Catalysis Today</i> , <b>1999</b> , 54, 297-307	5.3	68
18	Photoelectrochemical reactors for the solar decontamination of water. <i>Catalysis Today</i> , <b>1999</b> , 54, 329-339	5.3	59
17	Pre-Industrial Experience in Solar Photocatalytic Mineralization of Real Wastewaters. Application to Pesticide Container Recycling. <i>Water Science and Technology</i> , <b>1999</b> , 40, 123	2.2	17
16	Solar photocatalytic mineralization of commercial pesticides: methamidophos. <i>Chemosphere</i> , <b>1999</b> , 38, 1145-56	8.4	42
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14	Pre-Industrial Experience in Solar Photocatalytic Mineralization of Real Wastewaters. Application to Pesticide Container Recycling. <i>Water Science and Technology</i> , <b>1999</b> , 40, 123-130	2.2	4
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10	Evaluation of photocatalytic degradation of imidacloprid in industrial water by GC-MS and LC-MS. <i>Analisis - European Journal of Analytical Chemistry</i> , <b>1998</b> , 26, 245-250		50
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8	Low-concentrating CPC collectors for photocatalytic water detoxification: Comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , <b>1997</b> , 35, 157	2.2	48
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4	Photocatalytic degradation of phenol: Comparison between pilot-plant-scale and laboratory results. <i>Solar Energy</i> , <b>1996</b> , 56, 387-400	6.8	57
3	Large solar plant photocatalytic water decontamination: Degradation of atrazine. <i>Solar Energy</i> , <b>1996</b> , 56, 411-419	6.8	82
2	Large solar plant photocatalytic water decontamination: Effect of operational parameters. <i>Solar Energy</i> , <b>1996</b> , 56, 421-428	6.8	89
1	Large solar plant photocatalytic water decontamination: Degradation of pentachlorophenol. <i>Chemosphere</i> , <b>1993</b> , 26, 2103-2119	8.4	105