

Sixto Malato

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313
papers

23,850
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81
h-index

143
g-index

354
ext. papers

25,967
ext. citations

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avg, IF

7.05
L-index

#	Paper	IF	Citations
3 ¹³	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , 2009 , 147, 1-59	5.3	2187
3 ¹²	Combination of Advanced Oxidation Processes and biological treatments for wastewater decontamination--a review. <i>Science of the Total Environment</i> , 2011 , 409, 4141-66	10.2	1629
3 ¹¹	Advanced oxidation processes for water treatment: advances and trends for R&D. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 769-776	3.5	624
3 ¹⁰	Photocatalysis with solar energy at a pilot-plant scale: an overview. <i>Applied Catalysis B: Environmental</i> , 2002 , 37, 1-15	21.8	580
3 ⁰⁹	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
3 ⁰⁸	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. <i>Science of the Total Environment</i> , 2019 , 655, 986-1008	10.2	319
3 ⁰⁷	Photo-fenton degradation of diclofenac: identification of main intermediates and degradation pathway. <i>Environmental Science & Technology</i> , 2005 , 39, 8300-6	10.3	312
3 ⁰⁶	Degradation of sulfamethoxazole in water by solar photo-Fenton. Chemical and toxicological evaluation. <i>Water Research</i> , 2009 , 43, 3922-31	12.5	274
3 ⁰⁵	Photocatalytic treatment of water-soluble pesticides by photo-Fenton and TiO ₂ using solar energy. <i>Catalysis Today</i> , 2002 , 76, 209-220	5.3	267
3 ⁰⁴	Degradation of fifteen emerging contaminants at microg L(-1) initial concentrations by mild solar photo-Fenton in MWTP effluents. <i>Water Research</i> , 2010 , 44, 545-54	12.5	264
3 ⁰³	The photo-fenton reaction and the TiO ₂ /UV process for waste water treatment [Novel developments. <i>Catalysis Today</i> , 1999 , 53, 131-144	5.3	246
3 ⁰²	Degradation and inactivation of tetracycline by TiO ₂ photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 184, 141-146	4.7	241
3 ⁰¹	Solar photocatalytic treatment of synthetic municipal wastewater. <i>Water Research</i> , 2004 , 38, 1147-54	12.5	237
3 ⁰⁰	Photocatalytic degradation of emerging contaminants in municipal wastewater treatment plant effluents using immobilized TiO ₂ in a solar pilot plant. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 294-301	21.8	232
2 ⁹⁹	Degradation of the antibiotic amoxicillin by photo-Fenton process--chemical and toxicological assessment. <i>Water Research</i> , 2011 , 45, 1394-402	12.5	229
2 ⁹⁸	Solar photocatalysis: a clean process for water detoxification. <i>Science of the Total Environment</i> , 2002 , 291, 85-97	10.2	225
2 ⁹⁷	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , 2007 , 122, 137-149	5.3	215

296	Application of solar AOPs and ozonation for elimination of micropollutants in municipal wastewater treatment plant effluents. <i>Water Research</i> , 2013 , 47, 1521-8	12.5	213
295	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , 2003 , 75, 329-336	6.8	212
294	Decontamination industrial pharmaceutical wastewater by combining solar photo-Fenton and biological treatment. <i>Water Research</i> , 2009 , 43, 661-8	12.5	206
293	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> , 2013 , 47, 833-40	12.5	203
292	Engineering of solar photocatalytic collectors. <i>Solar Energy</i> , 2004 , 77, 513-524	6.8	190
291	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
290	Azo-dyes photocatalytic degradation in aqueous suspension of TiO ₂ under solar irradiation. <i>Chemosphere</i> , 2002 , 49, 1223-30	8.4	182
289	Mature landfill leachate treatment by coagulation/flocculation combined with Fenton and solar photo-Fenton processes. <i>Journal of Hazardous Materials</i> , 2015 , 286, 261-8	12.8	181
288	Enhancement of the rate of solar photocatalytic mineralization of organic pollutants by inorganic oxidizing species. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 347-356	21.8	181
287	Photo-Fenton treatment of water containing natural phenolic pollutants. <i>Chemosphere</i> , 2003 , 50, 71-8	8.4	171
286	Treatment of emerging contaminants in wastewater treatment plants (WWTP) effluents by solar photocatalysis using low TiO ₂ concentrations. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 131-7	12.8	168
285	TiO ₂ -based solar photocatalytic detoxification of water containing organic pollutants. Case studies of 2,4-dichlorophenoxyacetic acid (2,4-D) and of benzofuran. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 15-23	21.8	168
284	Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. <i>Applied Catalysis B: Environmental</i> , 2003 , 46, 319-332	21.8	163
283	Application of time-of-flight mass spectrometry to the analysis of phototransformation products of diclofenac in water under natural sunlight. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 908-15	2.2	162
282	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
281	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. <i>Catalysis Today</i> , 1999 , 54, 255-265	5.3	161
280	Solar photocatalytic degradation of some hazardous water-soluble pesticides at pilot-plant scale. <i>Journal of Hazardous Materials</i> , 2006 , 138, 507-17	12.8	157
279	Degradation of imidacloprid in water by photo-Fenton and TiO ₂ photocatalysis at a solar pilot plant: a comparative study. <i>Environmental Science & Technology</i> , 2001 , 35, 4359-66	10.3	155

278	Application of photo-fenton as a tertiary treatment of emerging contaminants in municipal wastewater. <i>Environmental Science & Technology</i> , 2010 , 44, 1792-8	10.3	151
277	Water disinfection by solar photocatalysis using compound parabolic collectors. <i>Catalysis Today</i> , 2005 , 101, 345-352	5.3	148
276	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1437-1445	16.2	145
275	Pilot-plant treatment of olive mill wastewater (OMW) by solar TiO ₂ photocatalysis and solar photo-Fenton. <i>Solar Energy</i> , 2004 , 77, 567-572	6.8	144
274	Applicability of the Photo-Fenton method for treating water containing pesticides. <i>Catalysis Today</i> , 1999 , 54, 309-319	5.3	139
273	Effect of water-matrix composition on Trimethoprim solar photodegradation kinetics and pathways. <i>Water Research</i> , 2010 , 44, 2735-44	12.5	135
272	Degradation of some biorecalcitrant pesticides by homogeneous and heterogeneous photocatalytic ozonation. <i>Chemosphere</i> , 2005 , 58, 1127-33	8.4	134
271	Treatment of municipal wastewater treatment plant effluents with modified photo-Fenton as a tertiary treatment for the degradation of micro pollutants and disinfection. <i>Environmental Science & Technology</i> , 2012 , 46, 2885-92	10.3	132
270	Solar photocatalytic disinfection of water using titanium dioxide graphene composites. <i>Chemical Engineering Journal</i> , 2015 , 261, 36-44	14.7	128
269	Solar photocatalytic degradation of persistent pharmaceuticals at pilot-scale: Kinetics and characterization of major intermediate products. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 255-264	21.8	128
268	Comparison of various titania samples of industrial origin in the solar photocatalytic detoxification of water containing 4-chlorophenol. <i>Catalysis Today</i> , 1999 , 54, 217-228	5.3	128
267	Photocatalytic treatment of diuron by solar photocatalysis: evaluation of main intermediates and toxicity. <i>Environmental Science & Technology</i> , 2003 , 37, 2516-24	10.3	127
266	Photochemical versus coupled photochemicalBiological flow system for the treatment of two biorecalcitrant herbicides: metobromuron and isoproturon. <i>Applied Catalysis B: Environmental</i> , 2000 , 27, 153-168	21.8	126
265	Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale. <i>Catalysis Today</i> , 2005 , 101, 219-226	5.3	125
264	Solar photocatalytic degradation and detoxification of EU priority substances. <i>Catalysis Today</i> , 2005 , 101, 203-210	5.3	123
263	Fe-zeolites as heterogeneous catalysts in solar Fenton-like reactions at neutral pH. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 51-58	21.8	121
262	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. <i>Solar Energy</i> , 1999 , 66, 169-182	6.8	120
261	Degradation study of 15 emerging contaminants at low concentration by immobilized TiO ₂ in a pilot plant. <i>Catalysis Today</i> , 2010 , 151, 107-113	5.3	119

260	Toxicity assays: a way for evaluating AOPs efficiency. <i>Water Research</i> , 2002 , 36, 4255-62	12.5	118
259	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
258	Degradation of a four-pesticide mixture by combined photo-Fenton and biological oxidation. <i>Water Research</i> , 2009 , 43, 653-60	12.5	117
257	Degradation of pesticides in water using solar advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 272-281	21.8	114
256	Degradation of emerging contaminants at low concentrations in MWTPs effluents with mild solar photo-Fenton and TiO ₂ . <i>Catalysis Today</i> , 2009 , 144, 124-130	5.3	113
255	Solar photo-Fenton treatment Process parameters and process control. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 121-130	21.8	113
254	Partial degradation of five pesticides and an industrial pollutant by ozonation in a pilot-plant scale reactor. <i>Journal of Hazardous Materials</i> , 2006 , 138, 363-9	12.8	113
253	Enhancing biodegradability of priority substances (pesticides) by solar photo-Fenton. <i>Water Research</i> , 2006 , 40, 1086-94	12.5	112
252	Removal of pharmaceuticals from MWTP effluent by nanofiltration and solar photo-Fenton using two different iron complexes at neutral pH. <i>Water Research</i> , 2014 , 64, 23-31	12.5	109
251	Compound parabolic concentrator technology development to commercial solar detoxification applications. <i>Solar Energy</i> , 1999 , 67, 317-330	6.8	108
250	New integrated photocatalytic-biological flow system using supported TiO ₂ and fixed bacteria for the mineralization of isoproturon. <i>Applied Catalysis B: Environmental</i> , 2002 , 36, 131-144	21.8	105
249	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
248	Large solar plant photocatalytic water decontamination: Degradation of pentachlorophenol. <i>Chemosphere</i> , 1993 , 26, 2103-2119	8.4	105
247	New industrial titania photocatalysts for the solar detoxification of water containing various pollutants. <i>Applied Catalysis B: Environmental</i> , 2002 , 35, 281-294	21.8	104
246	Photocatalytic degradation of industrial residual waters. <i>Solar Energy</i> , 1996 , 56, 401-410	6.8	102
245	Photodegradation of malachite green under natural sunlight irradiation: kinetic and toxicity of the transformation products. <i>Chemosphere</i> , 2008 , 70, 2068-75	8.4	98
244	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> , 2011 , 172, 250-257	14.7	96
243	Degradation of lincomycin in aqueous medium: Coupling of solar photocatalysis and membrane separation. <i>Solar Energy</i> , 2005 , 79, 402-408	6.8	95

242	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
241	Detoxification of wastewater containing five common pesticides by solar AOPs/Biological coupled system. <i>Catalysis Today</i> , 2007 , 129, 69-78	5.3	91
240	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
239	Solar photo-Fenton treatment of pesticides in water: Effect of iron concentration on degradation and assessment of ecotoxicity and biodegradability. <i>Applied Catalysis B: Environmental</i> , 2009 , 88, 448-454	21.8	90
238	Effect of operating parameters on the testing of new industrial titania catalysts at solar pilot plant scale. <i>Applied Catalysis B: Environmental</i> , 2003 , 42, 349-357	21.8	90
237	Large solar plant photocatalytic water decontamination: Effect of operational parameters. <i>Solar Energy</i> , 1996 , 56, 421-428	6.8	89
236	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> , 2020 , 710, 136312	10.2	86
235	Evaluation of operational parameters involved in solar photo-Fenton degradation of a commercial pesticide mixture. <i>Catalysis Today</i> , 2009 , 144, 94-99	5.3	83
234	Low-concentrating CPC collectors for photocatalytic water detoxification: comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997 , 35, 157-164	2.2	83
233	Large solar plant photocatalytic water decontamination: Degradation of atrazine. <i>Solar Energy</i> , 1996 , 56, 411-419	6.8	82
232	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
231	Fe(III)-solar light induced degradation of diethyl phthalate (DEP) in aqueous solutions. <i>Chemosphere</i> , 2002 , 49, 525-32	8.4	78
230	Regeneration approaches for TiO ₂ immobilized photocatalyst used in the elimination of emerging contaminants in water. <i>Catalysis Today</i> , 2014 , 230, 27-34	5.3	76
229	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> , 2017 , 1507, 84-94	4.5	75
228	A novel TiO ₂ -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> , 2004 , 77, 649-655	6.8	75
227	Solar photocatalytic degradation of humic acids as a model of organic compounds of landfill leachate in pilot-plant experiments: influence of inorganic salts. <i>Applied Catalysis B: Environmental</i> , 2004 , 53, 127-137	21.8	74
226	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , 2000 , 25, 31-38	21.8	74
225	Economic evaluation of a combined photo-Fenton/MBR process using pesticides as model pollutant. Factors affecting costs. <i>Journal of Hazardous Materials</i> , 2013 , 244-245, 195-203	12.8	73

224	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> , 2014 , 122, 515-522	8.3	71
223	Life cycle assessment of a coupled solar photocatalytic-biological process for wastewater treatment. <i>Water Research</i> , 2006 , 40, 3533-40	12.5	70
222	Optimizing the solar photo-Fenton process in the treatment of contaminated water. Determination of intrinsic kinetic constants for scale-up. <i>Solar Energy</i> , 2005 , 79, 360-368	6.8	70
221	Reduction of clarithromycin and sulfamethoxazole-resistant Enterococcus by pilot-scale solar-driven Fenton oxidation. <i>Science of the Total Environment</i> , 2014 , 468-469, 19-27	10.2	68
220	Solar photodegradation of pesticides in water by sodium decatungstate. <i>Catalysis Today</i> , 1999 , 54, 297-307	3.7	68
219	Solar photocatalytic treatment of trimethoprim in four environmental matrices at a pilot scale: transformation products and ecotoxicity evaluation. <i>Science of the Total Environment</i> , 2012 , 430, 167-73	10.2	67
218	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> , 2017 , 318, 161-170	14.7	66
217	Paracetamol degradation intermediates and toxicity during photo-Fenton treatment using different iron species. <i>Water Research</i> , 2012 , 46, 5374-80	12.5	66
216	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
215	Modified photo-Fenton for degradation of emerging contaminants in municipal wastewater effluents. <i>Catalysis Today</i> , 2011 , 161, 241-246	5.3	65
214	Decontamination of industrial wastewater containing pesticides by combining large-scale homogeneous solar photocatalysis and biological treatment. <i>Chemical Engineering Journal</i> , 2010 , 160, 447-456	14.7	65
213	Solar photocatalytic treatment of simulated dyestuff effluents. <i>Solar Energy</i> , 2004 , 77, 591-600	6.8	64
212	TiO ₂ /Cu(II) photocatalytic production of benzaldehyde from benzyl alcohol in solar pilot plant reactor. <i>Applied Catalysis B: Environmental</i> , 2013 , 136-137, 56-63	21.8	63
211	Efficiency of different solar advanced oxidation processes on the oxidation of bisphenol A in water. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 228-237	21.8	63
210	A combined solar photocatalytic-biological field system for the mineralization of an industrial pollutant at pilot scale. <i>Catalysis Today</i> , 2007 , 122, 150-159	5.3	63
209	Degradation of alachlor and pyrimethanil by combined photo-Fenton and biological oxidation. <i>Journal of Hazardous Materials</i> , 2008 , 155, 342-9	12.8	63
208	Combination of nanofiltration and ozonation for the remediation of real municipal wastewater effluents: Acute and chronic toxicity assessment. <i>Journal of Hazardous Materials</i> , 2017 , 323, 442-451	12.8	61
207	Comparison of UV/H ₂ O ₂ , UV/S ₂ O ₈ ²⁻ solar/Fe(II)/H ₂ O ₂ and solar/Fe(II)/S ₂ O ₈ ²⁻ at pilot plant scale for the elimination of micro-contaminants in natural water: An economic assessment. <i>Chemical Engineering Journal</i> , 2017 , 310, 514-524	14.7	61

206	Relationship between TiO ₂ particle size and reactor diameter in solar photoreactors efficiency. <i>Catalysis Today</i> , 1999 , 54, 195-204	5.3	61
205	Degradation of dipyrone and its main intermediates by solar AOPs. <i>Catalysis Today</i> , 2007 , 129, 207-214	5.3	59
204	Photoelectrochemical reactors for the solar decontamination of water. <i>Catalysis Today</i> , 1999 , 54, 329-339	5.3	59
203	Oxidation mechanisms of amoxicillin and paracetamol in the photo-Fenton solar process. <i>Water Research</i> , 2019 , 156, 232-240	12.5	58
202	Optimization of electrocatalytic H ₂ O ₂ production at pilot plant scale for solar-assisted water treatment. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 327-336	21.8	58
201	Combined nanofiltration and photo-Fenton treatment of water containing micropollutants. <i>Chemical Engineering Journal</i> , 2013 , 224, 89-95	14.7	57
200	Solar photo-Fenton as finishing step for biological treatment of a pharmaceutical wastewater. <i>Environmental Science & Technology</i> , 2009 , 43, 1185-91	10.3	57
199	Photocatalytic degradation of phenol: Comparison between pilot-plant-scale and laboratory results. <i>Solar Energy</i> , 1996 , 56, 387-400	6.8	57
198	Photocatalytic disinfection of water using low cost compound parabolic collectors. <i>Solar Energy</i> , 2004 , 77, 625-633	6.8	56
197	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> , 2010 , 97, 292-298	21.8	55
196	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> , 2013 , 461-462, 39-48	10.2	54
195	Solar disinfection of contaminated water: a comparison of three small-scale reactors. <i>Solar Energy</i> , 2004 , 77, 657-664	6.8	54
194	Study of application of titania catalysts on solar photocatalysis: Influence of type of pollutants and water matrices. <i>Chemical Engineering Journal</i> , 2016 , 291, 64-73	14.7	53
193	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> , 2019 , 366, 141-149	14.7	52
192	New approach to solar photo-Fenton operation. Raceway ponds as tertiary treatment technology. <i>Journal of Hazardous Materials</i> , 2014 , 279, 322-9	12.8	52
191	Tertiary treatment of pulp mill wastewater by solar photo-Fenton. <i>Journal of Hazardous Materials</i> , 2012 , 225-226, 173-81	12.8	52
190	Concentrating versus non-concentrating reactors for solar photocatalytic degradation of p-nitrotoluene-o-sulfonic acid. <i>Water Science and Technology</i> , 2001 , 44, 219-227	2.2	52
189	Development of TiO ₂ -C photocatalysts for solar treatment of polluted water. <i>Carbon</i> , 2017 , 122, 361-373	10.4	51

188	Scale-up strategy for a combined solar photo-Fenton/biological system for remediation of pesticide-contaminated water. <i>Catalysis Today</i> , 2010 , 151, 100-106	5.3	51
187	Solar photocatalytic mineralization of commercial pesticides: acrinathrin. <i>Chemosphere</i> , 2000 , 40, 403-9	8.4	51
186	Abatement of ibuprofen by solar photocatalysis process: Enhancement and scale up. <i>Catalysis Today</i> , 2009 , 144, 112-116	5.3	50
185	Evaluation of photocatalytic degradation of imidacloprid in industrial water by GC-MS and LC-MS. <i>Analisis - European Journal of Analytical Chemistry</i> , 1998 , 26, 245-250		50
184	Advanced Oxidation Processes at Laboratory Scale: Environmental and Economic Impacts. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3188-3196	8.3	49
183	Solar photo-Fenton at mild conditions to treat a mixture of six emerging pollutants. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 65-72	14.7	49
182	Solar photochemical treatment of winery wastewater in a CPC reactor. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 11242-8	5.7	49
181	Titanium Dioxide/Electrolyte Solution Interface: Electron Transfer Phenomena. <i>Journal of Colloid and Interface Science</i> , 2000 , 227, 510-516	9.3	49
180	Application of high intensity UVC-LED for the removal of acetamidrid with the photo-Fenton process. <i>Chemical Engineering Journal</i> , 2015 , 264, 690-696	14.7	48
179	Performance of different advanced oxidation processes for tertiary wastewater treatment to remove the pesticide acetamidrid. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 72-81	3.5	48
178	A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. <i>Water Research</i> , 2009 , 43, 784-92	12.5	48
177	Low-concentrating CPC collectors for photocatalytic water detoxification: Comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997 , 35, 157	2.2	48
176	Solar pilot plant scale hydrogen generation by irradiation of Cu/TiO ₂ composites in presence of sacrificial electron donors. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 15-23	21.8	47
175	Landfill leachate treatment: Comparison of standalone electrochemical degradation and combined with a novel biofilter. <i>Chemical Engineering Journal</i> , 2016 , 288, 87-98	14.7	47
174	Solar photocatalytic mineralization of commercial pesticides: Oxamyl. <i>Solar Energy Materials and Solar Cells</i> , 2000 , 64, 1-14	6.4	47
173	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 & Technology</i> , 2000 , 34, 1563-1571	10.3	47
172	Heterogeneous photocatalytic hydrogen generation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12718-12724	6.7	45
171	Field solar degradation of pesticides and emerging water contaminants mediated by polymer films containing titanium and iron oxide with synergistic heterogeneous photocatalytic activity at neutral pH. <i>Water Research</i> , 2010 , 44, 3029-38	12.5	45

170	Dissolved oxygen concentration: A key parameter in monitoring the photo-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 316-323	21.8	45
169	Coupling solar photo-Fenton and biotreatment at industrial scale: main results of a demonstration plant. <i>Journal of Hazardous Materials</i> , 2007 , 146, 440-6	12.8	45
168	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> , 2015 , 178, 210-217	21.8	44
167	Effect of pesticide concentration on the degradation process by combined solar photo-Fenton and biological treatment. <i>Water Research</i> , 2009 , 43, 3838-48	12.5	44
166	New large solar photocatalytic plant: set-up and preliminary results. <i>Chemosphere</i> , 2002 , 47, 235-40	8.4	44
165	Solar driven degradation of 4-chlorophenol. <i>Catalysis Today</i> , 1999 , 54, 321-327	5.3	44
164	On ozone-photocatalysis synergism in black-light induced reactions: Oxidizing species production in photocatalytic ozonation versus heterogeneous photocatalysis. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 131-140	14.7	43
163	Degradation pathways of the commercial reactive azo dye Procion Red H-E7B under solar-assisted photo-Fenton reaction. <i>Environmental Science & Technology</i> , 2008 , 42, 6663-70	10.3	43
162	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
161	Remediation of agro-food industry effluents by biotreatment combined with supported TiO ₂ /H ₂ O ₂ solar photocatalysis. <i>Chemical Engineering Journal</i> , 2015 , 273, 205-213	14.7	42
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