Adrin Mt Silva

List of Publications by Year in Descending Order

225 papers	10,883 citations	58 h-index	95 g-index
238 ext. papers	12,769 ext. citations	10 avg, IF	6.81 L-index

#	Paper	IF	Citations
225	Intensification strategies for improving the performance of photocatalytic processes: A review. *Journal of Cleaner Production*, **2022**, 340, 130800	10.3	3
224	Synthesis of low-density polyethylene derived carbon nanotubes for activation of persulfate and degradation of water organic micropollutants in continuous mode.. *Journal of Environmental Management*, **2022**, 308, 114622	7.9	0
223	Hollow carbon spheres for diclofenac and venlafaxine adsorption. *Journal of Environmental Chemical Engineering*, **2022**, 107348	6.8	0
222	Advanced oxidation technologies and constructed wetlands in aquaculture farms: What do we know so far about micropollutant removal?. *Environmental Research*, **2022**, 204, 111955	7.9	6
221	Persulfate activation by reduced graphene oxide membranes: Practical and mechanistic insights concerning organic pollutants abatement. *Chemical Engineering Journal*, **2022**, 427, 130994	14.7	6
220	A systematic literature review on the conversion of plastic wastes into valuable 2D graphene-based materials. *Chemical Engineering Journal*, **2022**, 428, 131399	14.7	14
219	In situ growth and crystallization of TiO2 on polymeric membranes for the photocatalytic degradation of diclofenac and 17□ethinylestradiol. *Chemical Engineering Journal*, **2022**, 427, 131476	14.7	3
218	Single-atom Ir and Ru anchored on graphitic carbon nitride for efficient and stable electrocatalytic/photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2022**, 310, 121318	21.8	3
217	Antibiotics removal from aquaculture effluents by ozonation: chemical and toxicity descriptors.. *Water Research*, **2022**, 218, 118497	12.5	3
216	Selecting the most environmentally friendly oxidant for UVC degradation of micropollutants in urban wastewater by assessing life cycle impacts: Hydrogen peroxide, peroxymonosulfate or persulfate?. *Science of the Total Environment*, **2021**, 808, 152050	10.2	3
215	Overgrowth control of potentially hazardous bacteria during storage of ozone treated wastewater through natural competition.. *Water Research*, **2021**, 209, 117932	12.5	1
214	Carbon-Based Materials for Oxidative Desulfurization and Denitrogenation of Fuels: A Review. *Catalysts*, **2021**, 11, 1239	4	3
213	Advances on Graphyne-Family Members for Superior Photocatalytic Behavior. *Advanced Science*, **2021**, 8, 2003900	13.6	7
212	UV-A activation of peroxymonosulfate for the removal of micropollutants from secondary treated wastewater. *Science of the Total Environment*, **2021**, 770, 145299	10.2	13
211	Carbon xerogels combined with nanotubes as solid-phase extraction sorbent to determine metaflumizone and seven other surface and drinking water micropollutants. *Scientific Reports*, **2021**, 11, 13817	4.9	0
210	A life cycle assessment of solar-based treatments (HO, TiO photocatalysis, circumneutral photo-Fenton) for the removal of organic micropollutants. *Science of the Total Environment*, **2021**, 761, 143258	10.2	12
209	Hydrochars from compost derived from municipal solid waste: Production process optimization and catalytic applications. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104888	6.8	6

208	Graphene-based catalytic membranes for water treatment □A review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104930	6.8	8
207	Mild temperature-gas separation performance of graphene oxide membranes for extended period: micropore to meso- and macropore readjustments and the fate of membranes under the influence of dynamic graphene oxide changes. *Chemical Engineering Journal Advances*, **2021**, 5, 100066	3.6	1
206	Interactions of pharmaceutical compounds in water matrices under visible-driven photocatalysis. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104747	6.8	1
205	Ozone-based water treatment (O3, O3/UV, O3/H2O2) for removal of organic micropollutants, bacteria inactivation and regrowth prevention. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105315	6.8	16
204	Rethinking water treatment targets: Bacteria regrowth under unprovable conditions. *Water Research*, **2021**, 201, 117374	12.5	3
203	Degradation and mineralization of oxalic acid using catalytic wet oxidation over carbon coated ceramic monoliths. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105369	6.8	3
202	Selective photocatalytic synthesis of benzaldehyde in microcapillaries with immobilized carbon nitride. *Chemical Engineering Journal*, **2021**, 430, 132643	14.7	4
201	Ozonation of cytostatic drugs in aqueous phase. *Science of the Total Environment*, **2021**, 795, 148855	10.2	2
200	Aging assessment of microplastics (LDPE, PET and uPVC) under urban environment stressors. *Science of the Total Environment*, **2021**, 796, 148914	10.2	13
199	A Pilot Study Combining Ultrafiltration with Ozonation for the Treatment of Secondary Urban Wastewater: Organic Micropollutants, Microbial Load and Biological Effects. *Water (Switzerland)*, **2020**, 12, 3458	3	5
198	Catalysts Prepared with Matured Compost Derived from Mechanical-Biological Treatment Plants for the Wet Peroxide Oxidation of Pollutants with Different Lipophilicity. *Catalysts*, **2020**, 10, 1243	4	4
197	Liquid-liquid extraction as a simple tool to quickly quantify fourteen cytostatics in urban wastewaters and access their impact in aquatic biota. *Science of the Total Environment*, **2020**, 740, 139995	10.2	17
196	Advanced oxidation technologies combined with direct contact membrane distillation for treatment of secondary municipal wastewater. *Chemical Engineering Research and Design*, **2020**, 140, 111-123	5.5	12
195	Nitrogen-doped reduced graphene oxide □PVDF nanocomposite membrane for persulfate activation and degradation of water organic micropollutants. *Chemical Engineering Journal*, **2020**, 402, 126117	14.7	27
194	Photo-Fenton degradation assisted by in situ generation of hydrogen peroxide using a carbon nitride photocatalyst. *Journal of Water Process Engineering*, **2020**, 37, 101467	6.7	9
193	Intensification of the ozone-water mass transfer in an oscillatory flow reactor with innovative design of periodic constrictions: Optimization and application in ozonation water treatment. *Chemical Engineering Journal*, **2020**, 389, 124412	14.7	24
192	Degradation of methylparaben by sonocatalysis using a Co-Fe magnetic carbon xerogel. *Ultrasonics Sonochemistry*, **2020**, 64, 105045	8.9	15
191	Hummers' and Brodie's graphene oxides as photocatalysts for phenol degradation. *Journal of Colloid and Interface Science*, **2020**, 567, 243-255	9.3	25

190	Environmental impact assessment of advanced urban wastewater treatment technologies for the removal of priority substances and contaminants of emerging concern: A review. *Journal of Cleaner Production*, **2020**, 261, 121078	10.3	42
189	Magnetic Carbon Nanostructures and Study of Their Transport in Microfluidic Devices for Hyperthermia. *IFMBE Proceedings*, **2020**, 1901-1918	0.2	
188	Analytical Methods in Biodiesel Production. *Energy, Environment, and Sustainability*, **2020**, 197-219	0.8	0
187	Solid-phase extraction cartridges with multi-walled carbon nanotubes and effect of the oxygen functionalities on the recovery efficiency of organic micropollutants. *Scientific Reports*, **2020**, 10, 22304	4.9	4
186	Microplastics in the environment: A DPSIR analysis with focus on the responses. *Science of the Total Environment*, **2020**, 718, 134968	10.2	31
185	A microfluidic reactor application for the continuous-flow photocatalytic selective synthesis of aromatic aldehydes. *Applied Catalysis A: General*, **2020**, 608, 117844	5.1	4
184	Screening of Activated Carbons for the Treatment of Highly Concentrated Phenol Solutions Using Catalytic Wet Peroxide Oxidation: The Effect of Iron Impurities on the Catalytic Activity. *Catalysts*, **2020**, 10, 1318	4	3
183	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. *Catalysis Today*, **2020**, 357, 350-360	5.3	31
182	Carbon nanotubes as catalysts for wet peroxide oxidation: The effect of surface chemistry. *Catalysis Today*, **2020**, 357, 332-340	5.3	10
181	Investigating the role of reduced graphene oxide as a universal additive in planar perovskite solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 386, 112141	4.7	28
180	The pH effect on the kinetics of 4-nitrophenol removal by CWPO with doped carbon black catalysts. *Catalysis Today*, **2020**, 356, 216-225	5.3	14
179	Janus amphiphilic carbon nanotubes as Pickering interfacial catalysts for the treatment of oily wastewater by selective oxidation with hydrogen peroxide. *Catalysis Today*, **2020**, 356, 205-215	5.3	14
178	Adsorption of Sudan-IV contained in oily wastewater on lipophilic activated carbons: kinetic and isotherm modelling. *Environmental Science and Pollution Research*, **2020**, 27, 20770-20785	5.1	9
177	Distribution of micropollutants in estuarine and sea water along the Portuguese coast. *Marine Pollution Bulletin*, **2020**, 154, 111120	6.7	19
176	Visible-light-induced self-cleaning functional fabrics using graphene oxide/carbon nitride materials. *Applied Surface Science*, **2019**, 497, 143757	6.7	18
175	Removal of microorganisms and antibiotic resistance genes from treated urban wastewater: A comparison between aluminium sulphate and tannin coagulants. *Water Research*, **2019**, 166, 115056	12.5	37
174	Quenchers in advanced oxidation technologies for analysis of micropollutants by liquid chromatography coupled to mass spectrometry: Sodium sulphite or catalase?. *Science of the Total Environment*, **2019**, 692, 995-1004	10.2	3
173	Impact of water matrix on the removal of micropollutants by advanced oxidation technologies. *Chemical Engineering Journal*, **2019**, 363, 155-173	14.7	222

172	Heterogeneous photocatalysis using UVA-LEDs for the removal of antibiotics and antibiotic resistant bacteria from urban wastewater treatment plant effluents. *Chemical Engineering Journal*, **2019**, 367, 304-313	14.7	86
171	Metal-free g-C3N4 photocatalysis of organic micropollutants in urban wastewater under visible light. *Applied Catalysis B: Environmental*, **2019**, 248, 184-192	21.8	80
170	Removal of Organic Micropollutants from a Municipal Wastewater Secondary Effluent by UVA-LED Photocatalytic Ozonation. *Catalysts*, **2019**, 9, 472	4	16
169	Screening of heterogeneous catalysts for the activated persulfate oxidation of sulfamethoxazole in aqueous matrices. Does the matrix affect the selection of catalyst?. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 2425-2432	3.5	10
168	Continuous ozonation of urban wastewater: Removal of antibiotics, antibiotic-resistant Escherichia coli and antibiotic resistance genes and phytotoxicity. *Water Research*, **2019**, 159, 333-347	12.5	125
167	Metal-free carbon nitride photocatalysis with in situ hydrogen peroxide generation for the degradation of aromatic compounds. *Applied Catalysis B: Environmental*, **2019**, 252, 128-137	21.8	48
166	Dual enantioselective LC-MS/MS method to analyse chiral drugs in surface water: Monitoring in Douro River estuary. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 170, 89-101	3.5	22
165	Immobilised Cerium-Doped Zinc Oxide as a Photocatalyst for the Degradation of Antibiotics and the Inactivation of Antibiotic-Resistant Bacteria. *Catalysts*, **2019**, 9, 222	4	18
164	Pillared interlayered natural clays as heterogeneous photocatalysts for H2O2-assisted treatment of a winery wastewater. *Separation and Purification Technology*, **2019**, 228, 115768	8.3	22
163	Metal-free graphene-based catalytic membrane for degradation of organic contaminants by persulfate activation. *Chemical Engineering Journal*, **2019**, 369, 223-232	14.7	64
162	Recent Strategies for Hydrogen Peroxide Production by Metal-Free Carbon Nitride Photocatalysts. *Catalysts*, **2019**, 9, 990	4	25
161	Monitoring of the 17 EU Watch List contaminants of emerging concern in the Ave and the Sousa Rivers. *Science of the Total Environment*, **2019**, 649, 1083-1095	10.2	76
160	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. *Science of the Total Environment*, **2019**, 655, 986-1008	10.2	319
159	Magnetically recoverable Fe3O4/g-C3N4 composite for photocatalytic production of benzaldehyde under UV-LED radiation. *Catalysis Today*, **2019**, 328, 293-299	5.3	29
158	Enhanced performance of cobalt ferrite encapsulated in graphitic shell by means of AC magnetically activated catalytic wet peroxide oxidation of 4-nitrophenol. *Chemical Engineering Journal*, **2019**, 376, 120012	14.7	11
157	Solar treatment (HO, TiO-P25 and GO-TiO photocatalysis, photo-Fenton) of organic micropollutants, human pathogen indicators, antibiotic resistant bacteria and related genes in urban wastewater. *Water Research*, **2018**, 135, 195-206	12.5	145
156	Exploring the activity of chemical-activated carbons synthesized from peach stones as metal-free catalysts for wet peroxide oxidation. *Catalysis Today*, **2018**, 313, 20-25	5.3	9
155	N/S-doped graphene derivatives and TiO2 for catalytic ozonation and photocatalysis of water pollutants. *Chemical Engineering Journal*, **2018**, 348, 888-897	14.7	59

154	Removal of Sudan IV from a simulated biphasic oily wastewater by using lipophilic carbon adsorbents. *Chemical Engineering Journal*, **2018**, 347, 963-971	14.7	14
153	A facile method to prepare translucent anatase thin films in monolithic structures for gas stream purification. *Environmental Science and Pollution Research*, **2018**, 25, 27796-27807	5.1	1
152	TiO-based (FeO, SiO, reduced graphene oxide) magnetically recoverable photocatalysts for imazalil degradation in a synthetic wastewater. *Environmental Science and Pollution Research*, **2018**, 25, 27724-27736	5.1	11
151	Desalination and removal of organic micropollutants and microorganisms by membrane distillation. *Desalination*, **2018**, 437, 121-132	10.3	27
150	A review on environmental monitoring of water organic pollutants identified by EU guidelines. *Journal of Hazardous Materials*, **2018**, 344, 146-162	12.8	403
149	Heterogeneous photocatalytic degradation of ibuprofen in ultrapure water, municipal and pharmaceutical industry wastewaters using a TiO2/UV-LED system. *Chemical Engineering Journal*, **2018**, 334, 976-984	14.7	176
148	Degradation of propyl paraben by activated persulfate using iron-containing magnetic carbon xerogels: investigation of water matrix and process synergy effects. *Environmental Science and Pollution Research*, **2018**, 25, 34801-34810	5.1	20
147	Mined pyrite and chalcopyrite as catalysts for spontaneous acidic pH adjustment in Fenton and LED photo-Fenton-like processes. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 1137-1146	3.5	19
146	Multifunctional graphene-based magnetic nanocarriers for combined hyperthermia and dual stimuli-responsive drug delivery. *Materials Science and Engineering C*, **2018**, 93, 206-217	8.3	46
145	Graphene photocatalysts **2018**, 79-101		4
144	Photocatalytic activity of functionalized nanodiamond-TiO2 composites towards water pollutants degradation under UV/Vis irradiation. *Applied Surface Science*, **2018**, 458, 839-848	6.7	30
143	Selective Production of Benzaldehyde Using Metal-Free Reduced Graphene Oxide/Carbon Nitride Hybrid Photocatalysts. *ChemistrySelect*, **2018**, 3, 8070-8081	1.8	12
142	Constructed wetland microcosms for the removal of organic micropollutants from freshwater aquaculture effluents. *Science of the Total Environment*, **2018**, 644, 1171-1180	10.2	39
141	Spatial and seasonal occurrence of micropollutants in four Portuguese rivers and a case study for fluorescence excitation-emission matrices. *Science of the Total Environment*, **2018**, 644, 1128-1140	10.2	39
140	Metal-Free Catalytic Wet Oxidation: From Powder to Structured Catalyst Using N-Doped Carbon Nanotubes. *Topics in Catalysis*, **2018**, 61, 1957-1966	2.3	6
139	A Tailor-Made Protocol to Synthesize Yolk-Shell Graphene-Based Magnetic Nanoparticles for Nanomedicine. *Journal of Carbon Research*, **2018**, 4, 55	3.3	4
138	Bare TiO2 and graphene oxide TiO2 photocatalysts on the degradation of selected pesticides and influence of the water matrix. *Applied Surface Science*, **2017**, 416, 1013-1021	6.7	121
137	Hybrid magnetic graphitic nanocomposites for catalytic wet peroxide oxidation applications. *Catalysis Today*, **2017**, 280, 184-191	5.3	17

136	Homogeneous and heterogeneous photo-Fenton degradation of antibiotics using an innovative static mixer photoreactor. *Chemical Engineering Journal*, **2017**, 310, 342-351	14.7	74
135	Ag-loaded ZnO materials for photocatalytic water treatment. *Chemical Engineering Journal*, **2017**, 318, 95-102	14.7	83
134	Ozonation and UV radiation for the removal of microorganisms and antibiotic resistance genes from urban wastewater. *Journal of Hazardous Materials*, **2017**, 323, 434-441	12.8	139
133	A review on the application of constructed wetlands for the removal of priority substances and contaminants of emerging concern listed in recently launched EU legislation. *Environmental Pollution*, **2017**, 227, 428-443	9.3	138
132	An overview on exploration and environmental impact of unconventional gas sources and treatment options for produced water. *Journal of Environmental Management*, **2017**, 200, 511-529	7.9	45
131	Graphitic carbon nitride modified by thermal, chemical and mechanical processes as metal-free photocatalyst for the selective synthesis of benzaldehyde from benzyl alcohol. *Journal of Catalysis*, **2017**, 353, 44-53	7.3	65
130	Activation of sodium persulfate by magnetic carbon xerogels (CX/CoFe) for the oxidation of bisphenol A: Process variables effects, matrix effects and reaction pathways. *Water Research*, **2017**, 124, 97-107	12.5	83
129	Lignin-based activated carbons as metal-free catalysts for the oxidative degradation of 4-nitrophenol in aqueous solution. *Applied Catalysis B: Environmental*, **2017**, 219, 372-378	21.8	37
128	Hybrid magnetic graphitic nanocomposites towards catalytic wet peroxide oxidation of the liquid effluent from a mechanical biological treatment plant for municipal solid waste. *Applied Catalysis B: Environmental*, **2017**, 219, 645-657	21.8	19
127	The role of cobalt in bimetallic iron-cobalt magnetic carbon xerogels developed for catalytic wet peroxide oxidation. *Catalysis Today*, **2017**, 296, 66-75	5.3	17
126	Selective photocatalytic oxidation of benzyl alcohol to benzaldehyde by using metal-loaded g-C 3 N 4 photocatalysts. *Catalysis Today*, **2017**, 287, 70-77	5.3	57
125	Bacteria and fungi inactivation by photocatalysis under UVA irradiation: liquid and gas phase. *Environmental Science and Pollution Research*, **2017**, 24, 6372-6381	5.1	29
124	Comparison of self-standing and supported graphene oxide membranes prepared by simple filtration: Gas and vapor separation, pore structure and stability. *Journal of Membrane Science*, **2017** , 522, 303-315	9.6	22
123	Proteobacteria become predominant during regrowth after water disinfection. *Science of the Total Environment*, **2016**, 573, 313-323	10.2	56
122	Photocatalytic Activity of Nanocarbon-TiO2 Composites with Gold Nanoparticles for the Degradation of Water Pollutants **2016**, 87-108		2
121	Photocatalytic Reduction of CO2 with Water into Methanol and Ethanol Using Graphene Derivative□TiO2 Composites: Effect of pH and Copper(I) Oxide. *Topics in Catalysis*, **2016**, 59, 1279-1291	2.3	30
120	Graphene-Based Membranes for Separation Engineering **2016**, 133-154		
119	Haemocompatibility of iron oxide nanoparticles synthesized for theranostic applications: a high-sensitivity microfluidic tool. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	35

118	Catalytic wet oxidation of organic compounds over N-doped carbon nanotubes in batch and continuous operation. *Applied Catalysis B: Environmental*, **2016**, 199, 361-371	21.8	26
117	Kinetic modelling for the photocatalytic degradation of phenol by using TiO2-coated glass raschig rings under simulated solar light. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 346-352	3.5	11
116	Catalytic wet peroxide oxidation: a route towards the application of hybrid magnetic carbon nanocomposites for the degradation of organic pollutants. A review. *Applied Catalysis B: Environmental*, **2016**, 187, 428-460	21.8	113
115	Photocatalytic ozonation of urban wastewater and surface water using immobilized TiO2 with LEDs: Micropollutants, antibiotic resistance genes and estrogenic activity. *Water Research*, **2016**, 94, 10-22	12.5	150
114	Analysis of 17-□estradiol and 17-□ethinylestradiol in biological and environmental matrices □A review. *Microchemical Journal*, **2016**, 126, 243-262	4.8	84
113	Occurrence and removal of organic micropollutants: An overview of the watch list of EU Decision 2015/495. *Water Research*, **2016**, 94, 257-279	12.5	522
112	UV and solar photo-degradation of naproxen: TiO□catalyst effect, reaction kinetics, products identification and toxicity assessment. *Journal of Hazardous Materials*, **2016**, 304, 329-36	12.8	64
111	An innovative static mixer photoreactor: Proof of concept. *Chemical Engineering Journal*, **2016**, 287, 419-424	4.7	8
110	Role of Nitrogen Doping on the Performance of Carbon Nanotube Catalysts: A Catalytic Wet Peroxide Oxidation Application. *ChemCatChem*, **2016**, 8, 2068-2078	5.2	26
109	Magnetic carbon xerogels for the catalytic wet peroxide oxidation of sulfamethoxazole in environmentally relevant water matrices. *Applied Catalysis B: Environmental*, **2016**, 199, 170-186	21.8	53
108	Thin-film composite forward osmosis membranes based on polysulfone supports blended with nanostructured carbon materials. *Journal of Membrane Science*, **2016**, 520, 326-336	9.6	57
107	Polymer Membranes for Water Desalination and Treatment **2016**, 251-286		
106	Eco-friendly LC-MS/MS method for analysis of multi-class micropollutants in tap, fountain, and well water from northern Portugal. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 8355-8367	4.4	28
105	Reduced graphene oxide catalysts for efficient regeneration of cobalt-based redox electrolytes in dye-sensitized solar cells. *Electrochimica Acta*, **2016**, 219, 258-266	6.7	13
104	Activated carbon xerogel□hitosan composite materials for catalytic wet peroxide oxidation under intensified process conditions. *Journal of Environmental Chemical Engineering*, **2015**, 3, 1243-1251	6.8	22
103	Evaluation of a solar/UV annular pilot scale reactor for 24 h continuous photocatalytic oxidation of n-decane. *Chemical Engineering Journal*, **2015**, 280, 409-416	14.7	20
102	Nanodiamond□TiO2 composites for photocatalytic degradation of microcystin-LA in aqueous solutions under simulated solar light. *RSC Advances*, **2015**, 5, 58363-58370	3.7	36
101	A facile approach for the development of fine-tuned self-standing graphene oxide membranes and their gas and vapor separation performance. *Journal of Membrane Science*, **2015**, 493, 734-747	9.6	24

100	Graphene-based materials for the catalytic wet peroxide oxidation of highly concentrated 4-nitrophenol solutions. *Catalysis Today*, **2015**, 249, 204-212	5.3	47
99	Evaluation of sol–gel TiO 2 photocatalysts modified with carbon or boron compounds and crystallized in nitrogen or air atmospheres. *Chemical Engineering Journal*, **2015**, 277, 11-20	14.7	20
98	Graphene oxide based ultrafiltration membranes for photocatalytic degradation of organic pollutants in salty water. *Water Research*, **2015**, 77, 179-190	12.5	88
97	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. *Journal of Catalysis*, **2015**, 331, 172-180	7.3	80
96	Environmental friendly method for urban wastewater monitoring of micropollutants defined in the Directive 2013/39/EU and Decision 2015/495/EU. *Journal of Chromatography A*, **2015**, 1418, 140-149	4.5	40
95	Targeting key metabolic points for an enhanced phytoremediation of wastewaters pre-treated by the photo-Fenton process using Solanum nigrum L. *Ecotoxicology and Environmental Safety*, **2015**, 120, 124-9	7	4
94	Photocatalytic oxidation of gaseous perchloroethylene over TiO 2 based paint. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 311, 41-52	4.7	27
93	Fast mineralization and detoxification of amoxicillin and diclofenac by photocatalytic ozonation and application to an urban wastewater. *Water Research*, **2015**, 87, 87-96	12.5	124
92	Carbon nanotubes as catalysts for catalytic wet peroxide oxidation of highly concentrated phenol solutions: towards process intensification. *Applied Catalysis B: Environmental*, **2015**, 165, 706-714	21.8	50
91	Multi-walled carbon nanotube/PVDF blended membranes with sponge- and finger-like pores for direct contact membrane distillation. *Desalination*, **2015**, 357, 233-245	10.3	122
90	Development of glycerol-based metal-free carbon materials for environmental catalytic applications. *Catalysis Today*, **2015**, 240, 61-66	5.3	28
89	Photocatalytic degradation of estradiol under simulated solar light and assessment of estrogenic activity. *Applied Catalysis B: Environmental*, **2015**, 162, 437-444	21.8	48
88	Synthesis and characterization of N-modified titania nanotubes for photocatalytic applications. *Environmental Science and Pollution Research*, **2015**, 22, 810-9	5.1	11
87	N-modified TiO 2 photocatalytic activity towards diphenhydramine degradation and Escherichia coli inactivation in aqueous solutions. *Applied Catalysis B: Environmental*, **2015**, 162, 66-74	21.8	54
86	Ceramic photocatalytic membranes for water filtration under UV and visible light. *Applied Catalysis B: Environmental*, **2015**, 178, 12-19	21.8	108
85	Photocatalytic production of hydrogen from methanol and saccharides using carbon nanotube-TiO2 catalysts. *Applied Catalysis B: Environmental*, **2015**, 178, 82-90	21.8	70
84	An overview on the advanced oxidation processes applied for the treatment of water pollutants defined in the recently launched Directive 2013/39/EU. *Environment International*, **2015**, 75, 33-51	12.9	597
83	Gas phase oxidation of n-decane and PCE by photocatalysis using an annular photoreactor packed with a monolithic catalytic bed coated with P25 and PC500. *Applied Catalysis B: Environmental*, **2015**, 165, 306-315	21.8	45

82	Degradation of diphenhydramine by photo-Fenton using magnetically recoverable iron oxide nanoparticles as catalyst. *Chemical Engineering Journal*, **2015**, 261, 45-52	14.7	77
81	Solar photocatalytic gas-phase degradation of n-decane--a comparative study using cellulose acetate monoliths coated with P25 or sol-gel TiO? films. *Environmental Science and Pollution Research*, **2015**, 22, 820-32	5.1	10
80	Laccase immobilization over multi-walled carbon nanotubes: Kinetic, thermodynamic and stability studies. *Journal of Colloid and Interface Science*, **2015**, 454, 52-60	9.3	142
79	Nitrogen-doped graphene-based materials for advanced oxidation processes. *Catalysis Today*, **2015**, 249, 192-198	5.3	57
78	Carbon-based TiO2 materials for the degradation of Microcystin-LA. *Applied Catalysis B: Environmental*, **2015**, 170-171, 74-82	21.8	60
77	Graphene Derivatives in Photocatalysis **2015**, 249-276		0
76	High-performance liquid chromatography as a tool to evaluate the performance of the catalytic wet peroxide oxidation of 4-nitrophenol: pre-validation of analytical methods. *U Porto Journal of Engineering*, **2015**, 1, 50-66	1	3
75	Polymer microfluidic devices: an overview of fabrication methods. *U Porto Journal of Engineering*, **2015**, 1, 67-79	1	21
74	Thermal Infrared Image Processing to Assess Heat Generated by Magnetic Nanoparticles for Hyperthermia Applications. *Lecture Notes in Computer Science*, **2015**, 25-34	0.9	1
73	Role of oxygen functionalities on the synthesis of photocatalytically active graphene?TiO2 composites. *Applied Catalysis B: Environmental*, **2014**, 158-159, 329-340	21.8	99
72	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO2/CNT composites. *Applied Catalysis B: Environmental*, **2014**, 147, 65-81	21.8	72
71	Controlled surface functionalization of multiwall carbon nanotubes by HNO3 hydrothermal oxidation. *Carbon*, **2014**, 69, 311-326	10.4	78
70	Controlling the Surface Chemistry of Multiwalled Carbon Nanotubes for the Production of Highly Efficient and Stable Laccase-Based Biocatalysts. *ChemPlusChem*, **2014**, 79, 1116-1122	2.8	19
69	Modification of the surface chemistry of single- and multi-walled carbon nanotubes by HNO3 and H2SO4 hydrothermal oxidation for application in direct contact membrane distillation. *Physical Chemistry Chemical Physics*, **2014**, 16, 12237-50	3.6	42
68	Are TiO2-based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. *Applied Catalysis B: Environmental*, **2014**, 147, 988-999	21.8	39
67	Continuous flow photo-Fenton treatment of ciprofloxacin in aqueous solutions using homogeneous and magnetically recoverable catalysts. *Environmental Science and Pollution Research* , **2014**, 21, 11116-25	5.1	24
66	Prototype composite membranes of partially reduced graphene oxide/TiO2 for photocatalytic ultrafiltration water treatment under visible light. *Applied Catalysis B: Environmental*, **2014**, 158-159, 361-372	21.8	84
65	Azo-dye orange II degradation by the heterogeneous Fenton-like process using a zeolite Y-Fe catalyst?Kinetics with a model based on the Fermi's equation. *Applied Catalysis B: Environmental*, **2014**, 146, 192-200	21.8	139

64	Developing highly active photocatalysts: Gold-loaded ZnO for solar phenol oxidation. *Journal of Catalysis*, **2014**, 316, 182-190	7.3	54
63	Catalytic performance of heteroatom-modified carbon nanotubes in advanced oxidation processes. *Chinese Journal of Catalysis*, **2014**, 35, 896-905	11.3	42
62	Iron Oxide Materials for Photo-Fenton Conversion of Water Pollutants **2014**, 459-473		
61	The role of O- and S-containing surface groups on carbon nanotubes for the elimination of organic pollutants by catalytic wet air oxidation. *Applied Catalysis B: Environmental*, **2014**, 147, 314-321	21.8	47
60	The influence of structure and surface chemistry of carbon materials on the decomposition of hydrogen peroxide. *Carbon*, **2013**, 62, 97-108	10.4	85
59	Photocatalytic degradation of endocrine disruptor compounds under simulated solar light. *Water Research*, **2013**, 47, 3997-4005	12.5	40
58	Nanodiamond-TiO Composites for Heterogeneous Photocatalysis. *ChemPlusChem*, **2013**, 78, 801-807	2.8	31
57	Optimization of the degradation of imazalil by photocatalysis: Comparison between commercial and lab-made photocatalysts. *Applied Catalysis B: Environmental*, **2013**, 138-139, 391-400	21.8	36
56	Photocatalytic activity of TiO2-coated glass raschig rings on the degradation of phenolic derivatives under simulated solar light irradiation. *Chemical Engineering Journal*, **2013**, 224, 32-38	14.7	53
55	Removal of 2-nitrophenol by catalytic wet peroxide oxidation using carbon materials with different morphological and chemical properties. *Applied Catalysis B: Environmental*, **2013**, 140-141, 356-362	21.8	39
54	Tailoring the properties of immobilized titanium dioxide/carbon nanotube composites for photocatalytic water treatment. *Journal of Environmental Chemical Engineering*, **2013**, 1, 945-953	6.8	16
53	Nanodiamond-TiO Composites for Heterogeneous Photocatalysis. *ChemPlusChem*, **2013**, 78, 750	2.8	5
52	Photocatalytic degradation of caffeine: Developing solutions for emerging pollutants. *Catalysis Today*, **2013**, 209, 108-115	5.3	77
51	Perchloroethylene gas-phase degradation over titania-coated transparent monoliths. *Applied Catalysis B: Environmental*, **2013**, 140-141, 444-456	21.8	28
50	Photochemical and photocatalytic degradation of trans-resveratrol. *Photochemical and Photobiological Sciences*, **2013**, 12, 638-44	4.2	40
49	Graphene oxide-P25 photocatalysts for degradation of diphenhydramine pharmaceutical and methyl orange dye. *Applied Surface Science*, **2013**, 275, 361-368	6.7	124
48	Low-temperature synthesis and characterization of rutile nanoparticles with amorphous surface layer for photocatalytic degradation of caffeine. *Applied Catalysis B: Environmental*, **2013**, 140-141, 9-15	21.8	17
47	Photocatalytic Degradation of Microcystin-LR and Off-Odor Compounds in Water under UV-A and Solar Light with a Nanostructured Photocatalyst Based on Reduced Graphene Oxide□TiO2 Composite. Identification of Intermediate Products.. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13991-14000	3.9	57

46	TiO2, surface modified TiO2 and graphene oxide-TiO2 photocatalysts for degradation of water pollutants under near-UV/Vis and visible light. *Chemical Engineering Journal*, **2013**, 224, 17-23	14.7	75
45	Photocatalytic behaviour of nanocarbon–TiO2 composites and immobilization into hollow fibres. *Applied Catalysis B: Environmental*, **2013**, 142-143, 101-111	21.8	67
44	Supported Pt-particles on multi-walled carbon nanotubes with controlled surface chemistry. *Materials Letters*, **2012**, 66, 64-67	3.3	5
43	Design of graphene-based TiO2 photocatalysts--a review. *Environmental Science and Pollution Research*, **2012**, 19, 3676-87	5.1	240
42	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. *Chemical Engineering Journal*, **2012**, 204-206, 244-257	14.7	28
41	Photo-Fenton plus Solanum nigrum L. weed plants integrated process for the abatement of highly concentrated metalaxyl on waste waters. *Chemical Engineering Journal*, **2012**, 184, 213-220	14.7	14
40	Activated carbon xerogels for the removal of the anionic azo dyes Orange II and Chromotrope 2R by adsorption and catalytic wet peroxide oxidation. *Chemical Engineering Journal*, **2012**, 195-196, 112-121	14.7	73
39	Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde. *Applied Catalysis A: General*, **2012**, 425-426, 161-169	5.1	34
38	Degradation of diphenhydramine pharmaceutical in aqueous solutions by using two highly active TiO2 photocatalysts: Operating parameters and photocatalytic mechanism. *Applied Catalysis B: Environmental*, **2012**, 113-114, 221-227	21.8	55
37	A lumped kinetic model based on the Fermi's equation applied to the catalytic wet hydrogen peroxide oxidation of Acid Orange 7. *Applied Catalysis B: Environmental*, **2012**, 121-122, 10-19	21.8	28
36	Advanced nanostructured photocatalysts based on reduced graphene oxide–TiO2 composites for degradation of diphenhydramine pharmaceutical and methyl orange dye. *Applied Catalysis B: Environmental*, **2012**, 123-124, 241-256	21.8	234
35	Photodeposition of Pt nanoparticles on TiO2–carbon xerogel composites. *Materials Letters*, **2011**, 65, 966-969	3.3	8
34	Degradation of trinitrophenol by sequential catalytic wet air oxidation and solar TiO2 photocatalysis. *Chemical Engineering Journal*, **2011**, 172, 634-640	14.7	18
33	Solanum nigrum L. weed plants as a remediation tool for metalaxyl-polluted effluents and soils. *Chemosphere*, **2011**, 85, 744-50	8.4	22
32	Catalytic activity and stability of multiwalled carbon nanotubes in catalytic wet air oxidation of oxalic acid: The role of the basic nature induced by the surface chemistry. *Applied Catalysis B: Environmental*, **2011**, 104, 330-336	21.8	71
31	The role of activated carbons functionalized with thiol and sulfonic acid groups in catalytic wet peroxide oxidation. *Applied Catalysis B: Environmental*, **2011**, 106, 390-397	21.8	60
30	Carbon nanotube–TiO2 thin films for photocatalytic applications. *Catalysis Today*, **2011**, 161, 91-96	5.3	76
29	Advanced oxidation processes for treatment of effluents from a detergent industry. *Environmental Technology (United Kingdom)*, **2011**, 32, 1031-41	2.6	26

28	Controlling and Quantifying Oxygen Functionalities on Hydrothermally and Thermally Treated Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2011**, 115, 8534-8546	3.8	50
27	Degradation of Acid Orange 7 using a saponite-based catalyst in wet hydrogen peroxide oxidation: Kinetic study with the Fermi's equation. *Applied Catalysis B: Environmental*, **2011**, 101, 197-205	21.8	58
26	Tailoring the phase composition and morphology of Bi-doped goethite–hematite nanostructures and their catalytic activity in the degradation of an actual pesticide using a photo-Fenton-like process. *Applied Catalysis B: Environmental*, **2011**, 103, 351-361	21.8	40
25	Pt-catalysts supported on activated carbons for catalytic wet air oxidation of aniline: Activity and stability. *Applied Catalysis B: Environmental*, **2011**, 105, 86-94	21.8	33
24	Preparation of Au nanoparticles on Ce-Ti-O supports. *Studies in Surface Science and Catalysis*, **2010**, 175, 457-461	1.8	2
23	Wet Air Oxidation of Aniline Using Carbon Foams and Fibers Enriched with Nitrogen. *Separation Science and Technology*, **2010**, 45, 1546-1554	2.5	25
22	Adopting strategies to improve the efficiency of ozonation in the real-scale treatment of olive oil mill wastewaters. *Environmental Technology (United Kingdom)*, **2010**, 31, 1459-69	2.6	25
21	Pt nanoparticles supported over Ce–Ti–O: the solvothermal and photochemical approaches for the preparation of catalytic materials. *Journal of Nanoparticle Research*, **2010**, 12, 121-133	2.3	14
20	Wet air oxidation of trinitrophenol with activated carbon catalysts: Effect of textural properties on the mechanism of degradation. *Applied Catalysis B: Environmental*, **2010**, 100, 310-317	21.8	27
19	Effect of chloride on the sinterization of Au/CeO2 catalysts. *Catalysis Today*, **2010**, 154, 293-302	5.3	44
18	Activated carbons treated with sulphuric acid: Catalysts for catalytic wet peroxide oxidation. *Catalysis Today*, **2010**, 151, 153-158	5.3	108
17	Gold nanoparticles on ceria supports for the oxidation of carbon monoxide. *Catalysis Today*, **2010**, 154, 21-30	5.3	62
16	Controlled generation of oxygen functionalities on the surface of Single-Walled Carbon Nanotubes by HNO3 hydrothermal oxidation. *Carbon*, **2010**, 48, 1515-1523	10.4	60
15	Integrated Strategy for Treatment of Winery Wastewaters Using Flocculation, Ozonation and Fenton– Oxidation. *Journal of Advanced Oxidation Technologies*, **2009**, 12,		2
14	Ce-doped TiO2 for photocatalytic degradation of chlorophenol. *Catalysis Today*, **2009**, 144, 13-18	5.3	129
13	Controlling the surface chemistry of carbon xerogels using HNO3-hydrothermal oxidation. *Carbon*, **2009**, 47, 1670-1679	10.4	74
12	Gas-Liquid-Solid Reactions of Polyvinyl Alcohol on Oxidation Treatments for Environmental Pollution Remediation. *Canadian Journal of Chemical Engineering*, **2008**, 81, 566-573	2.3	5
11	Catalytic properties of carbon materials for wet oxidation of aniline. *Journal of Hazardous Materials*, **2008**, 159, 420-6	12.8	114

10	Wet air oxidation of nitro-aromatic compounds: Reactivity on single- and multi-component systems and surface chemistry studies with a carbon xerogel. *Applied Catalysis B: Environmental*, **2008**, 84, 75-86	21.8	47
9	Kinetic Modeling and Trickle-Bed CFD Studies in the Catalytic Wet Oxidation of Vanillic Acid. *Industrial & Engineering Chemistry Research*, **2007**, 46, 8380-8387	3.9	13
8	Sonophotocatalytic/H2O2 degradation of phenolic compounds in agro-industrial effluents. *Catalysis Today*, **2007**, 124, 232-239	5.3	53
7	Screening of catalysts and effect of temperature for kinetic degradation studies of aromatic compounds during wet oxidation. *Applied Catalysis B: Environmental*, **2007**, 73, 193-202	21.8	43
6	Effect of key operating parameters on phenols degradation during H2O2-assisted TiO2 photocatalytic treatment of simulated and actual olive mill wastewaters. *Applied Catalysis B: Environmental*, **2007**, 73, 11-22	21.8	99
5	Catalysts based in cerium oxide for wet oxidation of acrylic acid in the prevention of environmental risks. *Applied Catalysis B: Environmental*, **2004**, 47, 269-279	21.8	102
4	Catalytic wet oxidation of ethylene glycol: kinetics of reaction on a MnCeO catalyst. *Chemical Engineering Science*, **2004**, 59, 5291-5299	4.4	20
3	Catalytic studies in wet oxidation of effluents from formaldehyde industry. *Chemical Engineering Science*, **2003**, 58, 963-970	4.4	48
2	Catalytic and Noncatalytic Wet Oxidation of Formaldehyde. A Novel Kinetic Model. *Industrial & Engineering Chemistry Research*, **2003**, 42, 5099-5108	3.9	25
1	Catalytic Wet Oxidation of Acrylic Acid: Studies with Manganese-based Oxides. *International Journal of Chemical Reactor Engineering*, **2003**, 1,	1.2	1