Dionissios Mantzavinos

List of Publications by Citations

209 papers	11,444 citations	56 h-index	99 g-index
242 ext. papers	12,768 ext. citations	8 avg, IF	6.65 L-index

#	Paper	IF	Citations
209	Removal of residual pharmaceuticals from aqueous systems by advanced oxidation processes. *Environment International*, **2009**, 35, 402-17	12.9	1274
208	Advanced oxidation processes for water treatment: advances and trends for R&D. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 769-776	3.5	624
207	New perspectives for Advanced Oxidation Processes. *Journal of Environmental Management*, **2017**, 195, 93-99	7.9	295
206	Enhancement of biodegradability of industrial wastewaters by chemical oxidation pre-treatment. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 431-454	3.5	288
205	Treatment of textile dyehouse wastewater by TiO2 photocatalysis. *Water Research*, **2006**, 40, 1276-86	12.5	283
204	Treatment of olive mill effluents Part I. Organic matter degradation by chemical and biological processes--an overview. *Environment International*, **2005**, 31, 289-95	12.9	233
203	Degradation, mineralization and antibiotic inactivation of amoxicillin by UV-A/TiO photocatalysis. *Journal of Environmental Management*, **2012**, 98, 168-74	7.9	215
202	Advanced treatment of the reverse osmosis concentrate produced during reclamation of municipal wastewater. *Water Research*, **2008**, 42, 4603-8	12.5	170
201	Electrochemical treatment of textile dyes and dyehouse effluents. *Journal of Hazardous Materials*, **2006**, 137, 998-1007	12.8	164
200	Electrochemical oxidation of olive oil mill wastewaters. *Water Research*, **2005**, 39, 4177-87	12.5	163
199	Photocatalytic degradation of reactive black 5 in aqueous solutions: Effect of operating conditions and coupling with ultrasound irradiation. *Water Research*, **2007**, 41, 2236-46	12.5	159
198	Boron-doped diamond anodic treatment of landfill leachate: evaluation of operating variables and formation of oxidation by-products. *Water Research*, **2011**, 45, 828-38	12.5	152
197	Sono-activated persulfate oxidation of bisphenol A: Kinetics, pathways and the controversial role of temperature. *Chemical Engineering Journal*, **2015**, 280, 623-633	14.7	142
196	Valorisation of agro-industrial by-products, effluents and waste: concept, opportunities and the case of olive mill wastewaters. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 895-900	3.5	142
195	Treatment of olive mill effluents Part II. Complete removal of solids by direct flocculation with poly-electrolytes. *Environment International*, **2005**, 31, 297-304	12.9	139
194	Factors affecting diclofenac decomposition in water by UV-A/TiO2 photocatalysis. *Chemical Engineering Journal*, **2010**, 161, 53-59	14.7	136
193	Degradation of sodium dodecylbenzene sulfonate in water by ultrasonic irradiation. *Water Research*, **2004**, 38, 3751-9	12.5	124

192	Kinetics of UV-A/TiO2 photocatalytic degradation and mineralization of the antibiotic sulfamethoxazole in aqueous matrices. *Catalysis Today*, **2011**, 161, 163-168	5.3	115
191	Catalytic wet oxidation of p-coumaric acid: Partial oxidation intermediates, reaction pathways and catalyst leaching. *Applied Catalysis B: Environmental*, **1996**, 7, 379-396	21.8	114
190	Photocatalytic and sonolytic oxidation of acid orange 7 in aqueous solution. *Applied Catalysis B: Environmental*, **2006**, 62, 159-168	21.8	108
189	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
188	Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes. *Catalysis Today*, **2018**, 313, 128-133	5.3	97
187	Solar light and metal-doped TiO2 to eliminate water-transmitted bacterial pathogens: Photocatalyst characterization and disinfection performance. *Applied Catalysis B: Environmental*, **2014**, 154-155, 93-101	21.8	96
186	Treatment of olive mill effluents by coagulation-flocculation-hydrogen peroxide oxidation and effect on phytotoxicity. *Journal of Hazardous Materials*, **2006**, 133, 135-42	12.8	96
185	Monitoring the sonochemical degradation of phthalate esters in water using solid-phase microextraction. *Chemosphere*, **2004**, 54, 849-57	8.4	96
184	Solar photocatalytic degradation of bisphenol A with CuO x /BiVO 4 : Insights into the unexpectedly favorable effect of bicarbonates. *Chemical Engineering Journal*, **2017**, 318, 39-49	14.7	95
183	Photocatalytic transformation of acid orange 20 and Cr(VI) in aqueous TiO2 suspensions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 186, 308-315	4.7	94
182	Heterogeneous photo-Fenton oxidation of benzoic acid in water: Effect of operating conditions, reaction by-products and coupling with biological treatment. *Applied Catalysis B: Environmental*, **2008**, 85, 24-32	21.8	94
181	Life cycle assessment of advanced oxidation processes for olive mill wastewater treatment. *Journal of Cleaner Production*, **2013**, 54, 229-234	10.3	93
180	Graphene: A new activator of sodium persulfate for the advanced oxidation of parabens in water. *Water Research*, **2017**, 126, 111-121	12.5	89
179	Electrochemical enhancement of solar photocatalysis: degradation of endocrine disruptor bisphenol-A on Ti/TiO2 films. *Water Research*, **2011**, 45, 2996-3004	12.5	88
178	Kinetics of ethyl paraben degradation by simulated solar radiation in the presence of N-doped TiO2 catalysts. *Water Research*, **2015**, 81, 157-66	12.5	86
177	Disinfection of spring water and secondary treated municipal wastewater by TiO2 photocatalysis. *Desalination*, **2010**, 250, 351-355	10.3	86
176	Disinfection of water and wastewater by TiO2 photocatalysis, sonolysis and UV-C irradiation. *Catalysis Today*, **2007**, 129, 136-142	5.3	85
175	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

174	Pilot treatment of olive pomace leachate by vertical-flow constructed wetland and electrochemical oxidation: an efficient hybrid process. *Water Research*, **2010**, 44, 2773-80	12.5	83
173	UV-A/TiO2 photocatalytic decomposition of erythromycin in water: Factors affecting mineralization and antibiotic activity. *Catalysis Today*, **2010**, 151, 29-33	5.3	83
172	Analysis of polycyclic aromatic hydrocarbons in wastewater treatment plant effluents using hollow fibre liquid-phase microextraction. *Chemosphere*, **2005**, 60, 690-8	8.4	82
171	Wet air oxidation of aqueous solutions of maleic acid over Ru/CeO2 catalysts. *Applied Catalysis B: Environmental*, **2001**, 35, 1-12	21.8	81
170	Sonochemical degradation of triclosan in water and wastewater. *Ultrasonics Sonochemistry*, **2008**, 15, 689-94	8.9	80
169	Boron-doped diamond anodic treatment of olive mill wastewaters: statistical analysis, kinetic modeling and biodegradability. *Water Research*, **2009**, 43, 3999-4009	12.5	77
168	Degradation of polycyclic aromatic hydrocarbons in aqueous solutions by ultrasonic irradiation. *Journal of Hazardous Materials*, **2004**, 108, 95-102	12.8	77
167	Anodic oxidation of textile dyehouse effluents on boron-doped diamond electrode. *Journal of Hazardous Materials*, **2012**, 207-208, 91-6	12.8	76
166	Electrochemical disinfection of simulated ballast water on conductive diamond electrodes. *Chemical Engineering Journal*, **2013**, 223, 516-523	14.7	73
165	Oxygen stoichiometries in La1−SrxCo1−yFeyO3− perovskites at reduced oxygen partial pressures. *Solid State Ionics*, **2000**, 134, 103-109	3.3	70
164	Recovery of antioxidants from olive mill wastewaters: a viable solution that promotes their overall sustainable management. *Journal of Environmental Management*, **2013**, 128, 749-58	7.9	69
163	Solar photocatalytic degradation of sulfamethoxazole over tungsten -Modified TiO2. *Chemical Engineering Journal*, **2017**, 318, 143-152	14.7	65
162	Photocatalytic (UV-A/TiO2) degradation of 17-ethynylestradiol in environmental matrices: Experimental studies and artificial neural network modeling. *Journal of Photochemistry and Photobiology A: Chemistry*, **2012**, 240, 33-41	4.7	65
161	Development of a hollow fibre liquid phase microextraction method to monitor the sonochemical degradation of explosives in water. *Analytica Chimica Acta*, **2004**, 501, 3-10	6.6	63
160	Solar photocatalytic abatement of sulfamethoxazole over Ag3PO4/WO3 composites. *Applied Catalysis B: Environmental*, **2018**, 231, 73-81	21.8	62
159	Electrochemical oxidation of benzoic acid in water over boron-doped diamond electrodes: Statistical analysis of key operating parameters, kinetic modeling, reaction by-products and ecotoxicity. *Chemical Engineering Journal*, **2010**, 160, 538-548	14.7	61
158	Electrochemical oxidation of stabilized landfill leachate on DSA electrodes. *Journal of Hazardous Materials*, **2011**, 190, 460-5	12.8	58
157	Extent of sonochemical degradation and change of toxicity of a pharmaceutical precursor (triphenylphosphine oxide) in water as a function of treatment conditions. *Environment International*, **2005**, 31, 207-11	12.9	58

156	Wet air oxidation of polyethylene glycols; mechanisms, intermediates and implications for integrated chemical-biological wastewater treatment. *Chemical Engineering Science*, **1996**, 51, 4219-4235	4.4	58
155	Photodegradation of ethyl paraben using simulated solar radiation and AgPO photocatalyst. *Journal of Hazardous Materials*, **2017**, 323, 478-488	12.8	56
154	Anodic oxidation of phenol on Ti/IrO2 electrode: Experimental studies. *Catalysis Today*, **2010**, 151, 185-189	5.3	56
153	Photocatalytic treatment of black table olive processing wastewater. *Journal of Hazardous Materials*, **2008**, 154, 1090-7	12.8	56
152	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO2/ITO film anode and BDD cathode. *Catalysis Today*, **2013**, 209, 74-78	5.3	55
151	Mild solar photo-Fenton: An effective tool for the removal of Fusarium from simulated municipal effluents. *Applied Catalysis B: Environmental*, **2012**, 111-112, 545-554	21.8	55
150	Electrochemical oxidation of table olive processing wastewater over boron-doped diamond electrodes: treatment optimization by factorial design. *Water Research*, **2008**, 42, 1229-37	12.5	55
149	BDD anodic oxidation as tertiary wastewater treatment for the removal of emerging micro-pollutants, pathogens and organic matter. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 1233-1236	3.5	54
148	Sonophotocatalytic/H2O2 degradation of phenolic compounds in agro-industrial effluents. *Catalysis Today*, **2007**, 124, 232-239	5.3	53
147	Sonochemical disinfection of municipal wastewater. *Journal of Hazardous Materials*, **2007**, 146, 492-5	12.8	53
146	Conversion of benzoic acid during TiO2-mediated photocatalytic degradation in water. *Chemical Engineering Journal*, **2008**, 140, 15-21	14.7	53
145	Sonolysis of natural phenolic compounds in aqueous solutions: degradation pathways and biodegradability. *Water Research*, **2004**, 38, 3110-8	12.5	53
144	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
143	Copper phosphide and persulfate salt: A novel catalytic system for the degradation of aqueous phase micro-contaminants. *Applied Catalysis B: Environmental*, **2019**, 244, 178-187	21.8	53
142	Fast photocatalytic degradation of bisphenol A by Ag3PO4/TiO2 composites under solar radiation. *Catalysis Today*, **2017**, 280, 99-107	5.3	52
141	Sonodegradation of 17□ethynylestradiol in environmentally relevant matrices: laboratory-scale kinetic studies. *Ultrasonics Sonochemistry*, **2012**, 19, 77-84	8.9	52
140	Environmental sustainability of light-driven processes for wastewater treatment applications. *Journal of Cleaner Production*, **2018**, 182, 8-15	10.3	51
139	Solar photocatalysis for the abatement of emerging micro-contaminants in wastewater: Synthesis, characterization and testing of various TiO2 samples. *Applied Catalysis B: Environmental*, **2012**, 117-118, 283-291	21.8	51

138	Photocatalytic degradation of bisphenol A over Rh/TiO 2 suspensions in different water matrices. *Catalysis Today*, **2017**, 284, 59-66	5.3	50
137	Fast degradation of estrogen hormones in environmental matrices by photo-Fenton oxidation under simulated solar radiation. *Chemical Engineering Journal*, **2011**, 178, 175-182	14.7	50
136	On the kinetics and mechanisms of photolytic/TiO2-photocatalytic degradation of substituted pyridines in aqueous solutions. *Applied Catalysis B: Environmental*, **2010**, 95, 100-109	21.8	50
135	Inactivation of MS2 coliphage in sewage by solar photocatalysis using metal-doped TiO2. *Applied Catalysis B: Environmental*, **2015**, 178, 54-64	21.8	49
134	Sequential coagulation□occulation, solvent extraction and photo-Fenton oxidation for the valorization and treatment of olive mill effluent. *Chemical Engineering Journal*, **2013**, 224, 82-88	14.7	49
133	Sonochemical degradation of ethyl paraben in environmental samples: Statistically important parameters determining kinetics, by-products and pathways. *Ultrasonics Sonochemistry*, **2016**, 31, 62-70	8.9	49
132	Correlating the properties of hydrogenated titania to reaction kinetics and mechanism for the photocatalytic degradation of bisphenol A under solar irradiation. *Applied Catalysis B: Environmental*, **2016**, 188, 65-76	21.8	48
131	Intermediate temperature solid oxide fuel cells operated with methanol fuels. *Chemical Engineering Science*, **2000**, 55, 3077-3083	4.4	48
130	Electrochemical oxidation of pesticide thiamethoxam on boron doped diamond anode: Role of operating parameters and matrix effect. *Chemical Engineering Research and Design*, **2018**, 116, 535-541	5.5	47
129	Degradation of antibiotic ampicillin on boron-doped diamond anode using the combined electrochemical oxidation - Sodium persulfate process. *Journal of Environmental Management*, **2018**, 223, 878-887	7.9	46
128	Synthesis and characterization of CoO/BiVO photocatalysts for the degradation of propyl paraben. *Journal of Hazardous Materials*, **2019**, 372, 52-60	12.8	45
127	Boron-doped diamond electrooxidation of ethyl paraben: The effect of electrolyte on by-products distribution and mechanisms. *Journal of Environmental Management*, **2017**, 195, 148-156	7.9	42
126	Oxidation of bisphenol A in water by heat-activated persulfate. *Journal of Environmental Management*, **2017**, 195, 125-132	7.9	41
125	UV and simulated solar photodegradation of 17□ethynylestradiol in secondary-treated wastewater by hydrogen peroxide or iron addition. *Catalysis Today*, **2015**, 252, 84-92	5.3	41
124	Solar light-induced degradation of bisphenol-A with TiO2 immobilized on Ti. *Catalysis Today*, **2011**, 161, 110-114	5.3	41
123	Partial wet oxidation of p-coumaric acid: Oxidation intermediates, reaction pathways and implications for wastewater treatment. *Water Research*, **1996**, 30, 2969-2976	12.5	41
122	Solar photocatalysis as disinfection technique: Inactivation of Klebsiella pneumoniae in sewage and investigation of changes in antibiotic resistance profile. *Journal of Environmental Management*, **2017**, 195, 140-147	7.9	38
121	Photocatalytic reduction of Cr(VI) over titania suspensions. *Catalysis Today*, **2015**, 252, 190-194	5.3	38

120	Wet air oxidation of table olive processing wastewater: determination of key operating parameters by factorial design. *Water Research*, **2008**, 42, 3591-600	12.5	38
119	Kinetics of low frequency sonodegradation of linear alkylbenzene sulfonate solutions. *Chemosphere*, **2006**, 62, 749-55	8.4	38
118	Experimental and Modeling Studies of the Degradation of Estrogen Hormones in Aqueous TiO2 Suspensions under Simulated Solar Radiation. *Industrial & Engineering Chemistry Research*, **2012**, 51, 16552-16563	3.9	37
117	Sequential treatment of diluted olive pomace leachate by digestion in a pilot scale UASB reactor and BDD electrochemical oxidation. *Water Research*, **2014**, 57, 76-86	12.5	35
116	Integration of Wet Oxidation and Nanofiltration for Treatment of Recalcitrant Organics in Wastewater. *Industrial & Engineering Chemistry Research*, **1997**, 36, 5054-5062	3.9	35
115	Disinfection of water and wastewater by UV-A and UV-C irradiation: application of real-time PCR method. *Photochemical and Photobiological Sciences*, **2011**, 10, 389-95	4.2	34
114	Photocatalytic treatment of wastewater from cottonseed processing: Effect of operating conditions, aerobic biodegradability and ecotoxicity. *Catalysis Today*, **2007**, 124, 247-253	5.3	34
113	Ozonation of weathered olive mill wastewaters. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 1570-1576	3.5	34
112	Mineralisation of the antibiotic amoxicillin in pure and surface waters by artificial UVA- and sunlight-induced Fenton oxidation. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 1211-1217	3.5	33
111	Determination of key operating conditions for the photocatalytic treatment of olive mill wastewaters. *Catalysis Today*, **2009**, 144, 143-148	5.3	33
110	Monitoring of the quality of winery influents/effluents and polishing of partially treated winery flows by homogeneous Fe(II) photo-oxidation. *Desalination*, **2009**, 248, 836-842	10.3	33
109	Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole. *Catalysts*, **2019**, 9, 419	4	32
108	Destruction of propyl paraben by persulfate activated with UV-A light emitting diodes. *Journal of Environmental Chemical Engineering*, **2018**, 6, 2992-2997	6.8	31
107	Integrated Wet Air Oxidation and Biological Treatment of Polyethylene Glycol-Containing Wastewaters. *Journal of Chemical Technology and Biotechnology*, **1997**, 70, 147-156	3.5	31
106	Sonochemical reduction of the antioxidant activity of olive mill wastewater. *Environment International*, **2005**, 31, 281-7	12.9	31
105	Sonochemical oxidation of piroxicam drug: effect of key operating parameters and degradation pathways. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 28-34	3.5	30
104	Boron-doped diamond oxidation of amoxicillin pharmaceutical formulation: Statistical evaluation of operating parameters, reaction pathways and antibacterial activity. *Journal of Environmental Management*, **2017**, 195, 100-109	7.9	29
103	Photocatalytic and photoelectrocatalytic degradation of the drug omeprazole on nanocrystalline titania films in alkaline media: Effect of applied electrical bias on degradation and transformation products. *Journal of Hazardous Materials*, **2015**, 294, 57-63	12.8	29

102	Solid-phase microextraction to monitor the sonochemical degradation of polycyclic aromatic hydrocarbons in water. *Journal of Environmental Monitoring*, **2003**, 5, 135-40		29
101	Treatment of municipal landfill leachate by catalytic wet air oxidation: Assessment of the role of operating parameters by factorial design. *Waste Management*, **2011**, 31, 1833-40	8.6	28
100	A comparative treatment of stabilized landfill leachate: coagulation and activated carbon adsorption vs. electrochemical oxidation. *Environmental Technology (United Kingdom)*, **2009**, 30, 1547-53	2.6	28
99	Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation. *Environmental Science and Pollution Research*, **2017**, 24, 1085-1092	5.1	27
98	Complete treatment of olive pomace leachate by coagulation, activated-carbon adsorption and electrochemical oxidation. *Water Research*, **2008**, 42, 2883-8	12.5	27
97	Chemical treatment of an anionic surfactant wastewater: Electrospray-MS studies of intermediates and effect on aerobic biodegradability. *Water Research*, **2001**, 35, 3337-44	12.5	26
96	Photocatalytic degradation of 17□ethynylestradiol in environmental samples by ZnO under simulated solar radiation. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1051-1058	3.5	25
95	Wet oxidation as a pretreatment method for wastewaters contaminated by bioresistant organics. *Water Science and Technology*, **1997**, 36, 109-116	2.2	25
94	Photolytic (UVC) and photocatalyic (UVC/TiO2) decomposition of pyridines. *Journal of Hazardous Materials*, **2007**, 146, 640-5	12.8	25
93	Current Trends in the Application of Nanomaterials for the Removal of Emerging Micropollutants and Pathogens from Water. *Molecules*, **2020**, 25,	4.8	24
92	Reprint of: Electrochemical oxidation of stabilized landfill leachate on DSA electrodes. *Journal of Hazardous Materials*, **2012**, 207-208, 73-8	12.8	24
91	Ultraviolet-activated persulfate oxidation of methyl orange: a comparison between artificial neural networks and factorial design for process modelling. *Photochemical and Photobiological Sciences*, **2015**, 14, 528-35	4.2	24
90	Solar Photocatalytic Degradation of Bisphenol A on Immobilized ZnO or TiO2. *International Journal of Photoenergy*, **2013**, 2013, 1-9	2.1	24
89	The effect of solids on the electrochemical treatment of olive mill effluents. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 504-511	3.5	24
88	Photoelectrocatalytic degradation of potential water pollutants in the presence of NaCl using nanocrystalline titania films. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1338-1344	3.5	23
87	Kinetic modeling of the electrochemical removal of ammonium and COD from landfill leachates. *Journal of Applied Electrochemistry*, **2012**, 42, 779-786	2.6	23
86	Simultaneous photocatalytic oxidation of As(III) and humic acid in aqueous TiO2 suspensions. *Journal of Hazardous Materials*, **2009**, 169, 376-85	12.8	23
85	Removal of Cinnamic Acid Derivatives from Aqueous Effluents by Fenton and Fenton-like Processes as an Alternative to Direct Biological Treatment. *Water, Air and Soil Pollution*, **2003**, 3, 211-221		23

84	Solar photocatalytic degradation of propyl paraben in Al-doped TiO2 suspensions. *Catalysis Today*, **2018**, 313, 148-154	5.3	23
83	Solar light-induced degradation of ethyl paraben with CuO x /BiVO 4 : Statistical evaluation of operating factors and transformation by-products. *Catalysis Today*, **2017**, 280, 122-131	5.3	22
82	Valorization of steel slag towards a Fenton-like catalyst for the degradation of paraben by activated persulfate. *Chemical Engineering Journal*, **2019**, 360, 728-739	14.7	22
81	Immobilized Ag3PO4 photocatalyst for micro-pollutants removal in a continuous flow annular photoreactor. *Catalysis Today*, **2019**, 328, 223-229	5.3	22
80	Degradation of antibiotic trimethoprim by the combined action of sunlight, TiO2 and persulfate: A pilot plant study. *Catalysis Today*, **2019**, 328, 216-222	5.3	21
79	Solar photocatalytic decomposition of ethyl paraben in zinc oxide suspensions. *Catalysis Today*, **2017**, 280, 139-148	5.3	20
78	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
77	Degradation of Sulfamethoxazole Using Iron-Doped Titania and Simulated Solar Radiation. *Catalysts*, **2019**, 9, 612	4	20
76	Inactivation of Enterococcus faecalis by TiO2-mediated UV and solar irradiation in water and wastewater: culture techniques never say the whole truth. *Photochemical and Photobiological Sciences*, **2011**, 10, 1744-50	4.2	20
75	Degradation of pesticide thiamethoxam by heat □activated and ultrasound □activated persulfate: Effect of key operating parameters and the water matrix. *Chemical Engineering Research and Design* , **2020**, 134, 197-207	5.5	20
74	Coupling digestion in a pilot-scale UASB reactor and electrochemical oxidation over BDD anode to treat diluted cheese whey. *Environmental Science and Pollution Research*, **2014**, 21, 12170-81	5.1	19
73	Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. *Journal of Environmental Management*, **2020**, 271, 111022	7.9	18
72	A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters. *International Biodeterioration and Biodegradation*, **2016**, 109, 104-112	4.8	18
71	Solar photocatalytic decomposition of estrogens over immobilized zinc oxide. *Catalysis Today*, **2013** , 209, 66-73	5.3	18
70	Degradation of trinitrophenol by sequential catalytic wet air oxidation and solar TiO2 photocatalysis. *Chemical Engineering Journal*, **2011**, 172, 634-640	14.7	18
69	Inactivation of Staphylococcus aureus in water by means of solar photocatalysis using metal doped TiO2 semiconductors. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 43-51	3.5	17
68	Persulfate activation by modified red mud for the oxidation of antibiotic sulfamethoxazole in water. *Journal of Environmental Management*, **2020**, 270, 110820	7.9	16
67	Anaerobic co-digestion of potato processing wastewater with pig slurry and abattoir wastewater. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 1658-1663	3.5	16

66	Degradation of methylparaben by sonocatalysis using a Co-Fe magnetic carbon xerogel. *Ultrasonics Sonochemistry*, **2020**, 64, 105045	8.9	15
65	Chemical surface modified-activated carbon cloth for catalytic wet peroxide oxidation of phenol. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1182-1188	3.5	15
64	Peracetic acid-enhanced photocatalytic and sonophotocatalytic inactivation of E. coli in aqueous suspensions. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 1049-1053	3.5	15
63	Sulfamethoxazole degradation by the CuOx/persulfate system. *Catalysis Today*, **2021**, 361, 139-145	5.3	15
62	Photocatalytic performance of Ag2O towards sulfamethoxazole degradation in environmental samples. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103177	6.8	14
61	Wet oxidation of benzoic acid catalyzed by cupric ions: Key parameters affecting induction period and conversion. *Applied Catalysis B: Environmental*, **2011**, 101, 479-485	21.8	14
60	A simple method for the determination of surface exchange and ionic transport kinetics in oxides. *Solid State Ionics*, **2000**, 136-137, 991-996	3.3	14
59	Activation of persulfate by biochar from spent malt rootlets for the degradation of trimethoprim in the presence of inorganic ions. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 2348-2358	3.5	13
58	Utilization of raw red mud as a source of iron activating the persulfate oxidation of paraben. *Chemical Engineering Research and Design*, **2018**, 119, 311-319	5.5	13
57	Complete degradation of the persistent anti-depressant sertraline in aqueous solution by solar photo-Fenton oxidation. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 814-818	3.5	13
56	Degradation of ethyl paraben by heat-activated persulfate oxidation: statistical evaluation of operating factors and transformation pathways. *Environmental Science and Pollution Research*, **2017** , 24, 1073-1084	5.1	13
55	Wet Air Oxidation of Aqueous Solutions of Linear Alkylbenzene Sulfonates. *Industrial & Engineering Chemistry Research*, **2000**, 39, 3659-3665	3.9	13
54	Effect of sodium persulfate treatment on the physicochemical properties and catalytic activity of biochar prepared from spent malt rootlets. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105071	6.8	13
53	Carbocatalytic activation of persulfate for the removal of drug diclofenac from aqueous matrices. *Catalysis Today*, **2020**, 355, 937-944	5.3	13
52	Biochar obtained by carbonization of spent coffee grounds and its application in the construction of an energy storage device. *Chemical Engineering Journal Advances*, **2020**, 4, 100061	3.6	12
51	Comparison of different TiO2 samples as photocatalyst for the degradation of a mixture of four commercial pesticides. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1259-1264	3.5	12
50	Homogeneous photo-Fenton mineralization of the antibiotic sulfamethazine in water under UV-A, visible and solar irradiation. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1668-1674	3.5	12
49	Removal of faecal indicator pathogens from waters and wastewaters by photoelectrocatalytic oxidation on TiO(2)/Ti films under simulated solar radiation. *Environmental Science and Pollution Research*, **2012**, 19, 3782-90	5.1	12

48	Photoelectrocatalytic disinfection of water and wastewater: performance evaluation by qPCR and culture techniques. *Journal of Water and Health*, **2013**, 11, 21-9	2.2	12
47	Pseudo-potentiostatic electrolysis by potential buffering induced by the oxygen evolution reaction. *Electrochemistry Communications*, **2009**, 11, 1358-1361	5.1	12
46	Wet air oxidation and ultrasound for the removal of linear alkylbenzene sulfonates from wastewater: the beneficial role of catalysis. *Topics in Catalysis*, **2005**, 33, 141-148	2.3	12
45	Sonochemical degradation of trimethoprim in water matrices: Effect of operating conditions, identification of transformation products and toxicity assessment. *Ultrasonics Sonochemistry*, **2020**, 67, 105139	8.9	12
44	Sunlight, iron and radicals to tackle the resistant leftovers of biotreated winery wastewater. *Photochemical and Photobiological Sciences*, **2013**, 12, 664-70	4.2	11
43	Electrochemical oxidation of butyl paraben on boron doped diamond in environmental matrices and comparison with sulfate radical-AOP. *Journal of Environmental Management*, **2020**, 269, 110783	7.9	11
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