AdriÃ¡n Mt Silva

List of Publications by Year
in descending order

230 papers	14,786 citations	15466 65 h-index	24179 110 g-index
238 all docs	238 docs citations	238 times ranked	15142 citing authors

#	Article	IF	Citations
1	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.	4.8	757
2	Occurrence and removal of organic micropollutants: An overview of the watch list of EU Decision 2015/495. Water Research, 2016, 94, 257-279.	5.3	698
3	A review on environmental monitoring of water organic pollutants identified by EU guidelines. Journal of Hazardous Materials, 2018, 344, 146-162.	6.5	589
4	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.	3.9	515
5	Impact of water matrix on the removal of micropollutants by advanced oxidation technologies. Chemical Engineering Journal, 2019, 363, 155-173.	6.6	365
6	Design of graphene-based TiO2 photocatalystsâ€”a review. Environmental Science and Pollution Research, 2012, 19, 3676-3687.	2.7	272
7	Advanced nanostructured photocatalysts based on reduced graphene oxideâ€“TiO2 composites for degradation of diphenhydramine pharmaceutical and methyl orange dye. Applied Catalysis B: Environmental, 2012, 123-124, 241-256.	10.8	270
8	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.	6.6	239
9	Continuous ozonation of urban wastewater: Removal of antibiotics, antibiotic-resistant Escherichia coli and antibiotic resistance genes and phytotoxicity. Water Research, 2019, 159, 333-347.	5.3	222
10	Solar treatment (H2O2, TiO2-P25 and GO-TiO2 photocatalysis, photo-Fenton) of organic micropollutants, human pathogen indicators, antibiotic resistant bacteria and related genes in urban wastewater. Water Research, 2018, 135, 195-206.	5.3	197
11	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.	5.3	185
12	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.	3.7	184
13	Ozonation and UV254nm radiation for the removal of microorganisms and antibiotic resistance genes from urban wastewater. Journal of Hazardous Materials, 2017, 323, 434-441.	6.5	179
14	Laccase immobilization over multi-walled carbon nanotubes: Kinetic, thermodynamic and stability studies. Journal of Colloid and Interface Science, 2015, 454, 52-60.	5.0	174
15	Azo-dye orange II degradation by the heterogeneous Fenton-like process using a zeolite Y-Fe catalystâ€”Kinetics with a model based on the Fermi's equation. Applied Catalysis B: Environmental, 2014, 146, 192-200.	10.8	164
16	Bare TiO 2 and graphene oxide TiO 2 photocatalysts on the degradation of selected pesticides and influence of the water matrix. Applied Surface Science, 2017, 416, 1013-1021.	3.1	161
17	Multi-walled carbon nanotube/PVDF blended membranes with sponge- and finger-like pores for direct contact membrane distillation. Desalination, 2015, 357, 233-245.	4.0	158
18	Fast mineralization and detoxification of amoxicillin and diclofenac by photocatalytic ozonation and application to an urban wastewater. Water Research, 2015, 87, 87-96.	5.3	153

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19	Ce-doped TiO2 for photocatalytic degradation of chlorophenol. Catalysis Today, 2009, 144, 13-18.	2.2	148
20	Graphene oxide-P25 photocatalysts for degradation of diphenhydramine pharmaceutical and methyl orange dye. Applied Surface Science, 2013, 275, 361-368.	3.1	145
21	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.	10.8	143
22	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.	6.6	135
23	Ceramic photocatalytic membranes for water filtration under UV and visible light. Applied Catalysis B: Environmental, 2015, 178, 12-19.	10.8	132
24	Catalytic properties of carbon materials for wet oxidation of aniline. Journal of Hazardous Materials, 2008, 159, 420-426.	6.5	129
25	Activated carbons treated with sulphuric acid: Catalysts for catalytic wet peroxide oxidation. Catalysis Today, 2010, 151, 153-158.	2.2	125
26	Metal-free g-C3N4 photocatalysis of organic micropollutants in urban wastewater under visible light. Applied Catalysis B: Environmental, 2019, 248, 184-192.	10.8	124
27	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.	3.9	120
28	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.	10.8	117
29	Role of oxygen functionalities on the synthesis of photocatalytically active grapheneâ€“TiO2 composites. Applied Catalysis B: Environmental, 2014, 158-159, 329-340.	10.8	117
30	Analysis of 17-Î²-estradiol and 17-Î±-ethinylestradiol in biological and environmental matrices â€” A review. Microchemical Journal, 2016, 126, 243-262.	2.3	112
31	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.	3.1	109
32	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.	10.8	108
33	Graphene oxide based ultrafiltration membranes for photocatalytic degradation of organic pollutants in salty water. Water Research, 2015, 77, 179-190.	5.3	108
34	Ag-loaded ZnO materials for photocatalytic water treatment. Chemical Engineering Journal, 2017, 318, 95-102.	6.6	105
35	Metal-free graphene-based catalytic membrane for degradation of organic contaminants by persulfate activation. Chemical Engineering Journal, 2019, 369, 223-232.	6.6	104
36	The influence of structure and surface chemistry of carbon materials on the decomposition of hydrogen peroxide. Carbon, 2013, 62, 97-108.	5.4	103

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37	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.	5.3	102
38	Controlled surface functionalization of multiwall carbon nanotubes by HNO3 hydrothermal oxidation. Carbon, 2014, 69, 311-326.	5.4	95
39	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.	10.8	95
40	Homogeneous and heterogeneous photo-Fenton degradation of antibiotics using an innovative static mixer photoreactor. Chemical Engineering Journal, 2017, 310, 342-351.	6.6	94
41	Carbon nanotubeâ€“TiO2 thin films for photocatalytic applications. Catalysis Today, 2011, 161, 91-96.	2.2	93
42	Photocatalytic production of hydrogen from methanol and saccharides using carbon nanotube-TiO2 catalysts. Applied Catalysis B: Environmental, 2015, 178, 82-90.	10.8	93
43	Aging assessment of microplastics (LDPE, PET and uPVC) under urban environment stressors. Science of the Total Environment, 2021, 796, 148914.	3.9	93
44	Degradation of diphenhydramine by photo-Fenton using magnetically recoverable iron oxide nanoparticles as catalyst. Chemical Engineering Journal, 2015, 261, 45-52.	6.6	92
45	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. Journal of Catalysis, 2015, 331, 172-180.	3.1	91
46	Photocatalytic degradation of caffeine: Developing solutions for emerging pollutants. Catalysis Today, 2013, 209, 108-115.	2.2	88
47	UV and solar photo-degradation of naproxen: TiO 2 catalyst effect, reaction kinetics, products identification and toxicity assessment. Journal of Hazardous Materials, 2016, 304, 329-336.	6.5	88
48	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.	6.6	87
49	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.	10.8	85
50	N/S-doped graphene derivatives and TiO2 for catalytic ozonation and photocatalysis of water pollutants. Chemical Engineering Journal, 2018, 348, 888-897.	6.6	84
51	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.	4.6	84
52	Controlling the surface chemistry of carbon xerogels using HNO3-hydrothermal oxidation. Carbon, 2009, 47, 1670-1679.	5.4	83
53	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.	6.6	81
54	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO2/CNT composites. Applied Catalysis B: Environmental, 2014, 147, 65-81.	10.8	80

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55	Proteobacteria become predominant during regrowth after water disinfection. Science of the Total Environment, 2016, 573, 313-323.	3.9	77
56	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.	10.8	76
57	Photocatalytic behaviour of nanocarbonâ€“TiO2 composites and immobilization into hollow fibres. Applied Catalysis B: Environmental, 2013, 142-143, 101-111.	10.8	75
58	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.	3.8	75
59	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.	10.8	73
60	Constructed wetland microcosms for the removal of organic micropollutants from freshwater aquaculture effluents. Science of the Total Environment, 2018, 644, 1171-1180.	3.9	73
61	Thin-film composite forward osmosis membranes based on polysulfone supports blended with nanostructured carbon materials. Journal of Membrane Science, 2016, 520, 326-336.	4.1	72
62	Selective photocatalytic oxidation of benzyl alcohol to benzaldehyde by using metal-loaded g-C3N4 photocatalysts. Catalysis Today, 2017, 287, 70-77.	2.2	72
63	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.	10.8	72
64	Microplastics in the environment: A DPSIR analysis with focus on the responses. Science of the Total Environment, 2020, 718, 134968.	3.9	70
65	Magnetic carbon xerogels for the catalytic wet peroxide oxidation of sulfamethoxazole in environmentally relevant water matrices. Applied Catalysis B: Environmental, 2016, 199, 170-186.	10.8	69
66	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.	10.8	68
67	Carbon-based TiO2 materials for the degradation of Microcystin-LA. Applied Catalysis B: Environmental, 2015, 170-171, 74-82.	10.8	66
68	Sonophotocatalytic/H2O2 degradation of phenolic compounds in agro-industrial effluents. Catalysis Today, 2007, 124, 232-239.	2.2	65
69	Gold nanoparticles on ceria supports for the oxidation of carbon monoxide. Catalysis Today, 2010, 154, 21-30.	2.2	65
70	Developing highly active photocatalysts: Gold-loaded ZnO for solar phenol oxidation. Journal of Catalysis, 2014, 316, 182-190.	3.1	65
71	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.	10.8	64
72	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 Oxideâ€“TiO₂ Composite. Identification of Intermediate Products.. Industrial & Engineering Chemistry Research, 2013, 52, 13991-14000.	1.8	64

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73	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.	10.8	64
74	A systematic literature review on the conversion of plastic wastes into valuable 2D graphene-based materials. Chemical Engineering Journal, 2022, 428, 131399.	6.6	64
75	Controlled generation of oxygen functionalities on the surface of Single-Walled Carbon Nanotubes by HNO3 hydrothermal oxidation. Carbon, 2010, 48, 1515-1523.	5.4	63
76	Nitrogen-doped graphene-based materials for advanced oxidation processes. Catalysis Today, 2015, 249, 192-198.	2.2	62
77	Photocatalytic degradation of estradiol under simulated solar light and assessment of estrogenic activity. Applied Catalysis B: Environmental, 2015, 162, 437-444.	10.8	62
78	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.	6.6	61
79	Photochemical and photocatalytic degradation of trans-resveratrol. Photochemical and Photobiological Sciences, 2013, 12, 638-644.	1.6	59
80	Graphene-based materials for the catalytic wet peroxide oxidation of highly concentrated 4-nitrophenol solutions. Catalysis Today, 2015, 249, 204-212.	2.2	59
81	Nitrogen-doped reduced graphene oxide â€“ PVDF nanocomposite membrane for persulfate activation and degradation of water organic micropollutants. Chemical Engineering Journal, 2020, 402, 126117.	6.6	59
82	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.	3.3	59
83	N-modified TiO 2 photocatalytic activity towards diphenhydramine degradation and Escherichia coli inactivation in aqueous solutions. Applied Catalysis B: Environmental, 2015, 162, 66-74.	10.8	57
84	Multifunctional graphene-based magnetic nanocarriers for combined hyperthermia and dual stimuli-responsive drug delivery. Materials Science and Engineering C, 2018, 93, 206-217.	3.8	56
85	Controlling and Quantifying Oxygen Functionalities on Hydrothermally and Thermally Treated Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 8534-8546.	1.5	55
86	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.	3.9	53
87	Catalytic studies in wet oxidation of effluents from formaldehyde industry. Chemical Engineering Science, 2003, 58, 963-970.	1.9	52
88	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.	10.8	52
89	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.	10.8	52
90	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, 12237-12250.	1.3	52

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91	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.	1.8	52
92	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.	10.8	52
93	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.	10.8	50
94	Removal of microorganisms and antibiotic resistance genes from treated urban wastewater: A comparison between aluminium sulphate and tannin coagulants. Water Research, 2019, 166, 115056.	5.3	50
95	Recent Strategies for Hydrogen Peroxide Production by Metal-Free Carbon Nitride Photocatalysts. Catalysts, 2019, 9, 990.	1.6	50
96	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. Catalysis Today, 2020, 357, 350-360.	2.2	50
97	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.	10.8	49
98	Hummersâ€™ and Brodieâ€™s graphene oxides as photocatalysts for phenol degradation. Journal of Colloid and Interface Science, 2020, 567, 243-255.	5.0	49
99	Effect of chloride on the sinterization of Au/CeO2 catalysts. Catalysis Today, 2010, 154, 293-302.	2.2	48
100	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.	10.8	48
101	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.	10.8	47
102	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.	2.0	47
103	Catalytic performance of heteroatom-modified carbon nanotubes in advanced oxidation processes. Chinese Journal of Catalysis, 2014, 35, 896-905.	6.9	46
104	Haemocompatibility of iron oxide nanoparticles synthesized for theranostic applications: a high-sensitivity microfluidic tool. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	46
105	Tailoring the phase composition and morphology of Bi-doped goethiteâ€“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.	10.8	44
106	Photocatalytic degradation of endocrine disruptor compounds under simulated solar light. Water Research, 2013, 47, 3997-4005.	5.3	44
107	Magnetically recoverable Fe3O4/g-C3N4 composite for photocatalytic production of benzaldehyde under UV-LED radiation. Catalysis Today, 2019, 328, 293-299.	2.2	43
108	Photocatalytic Reduction of CO2 with Water into Methanol and Ethanol Using Graphene Derivativeâ€“TiO2 Composites: Effect of pH and Copper(I) Oxide. Topics in Catalysis, 2016, 59, 1279-1291.	1.3	42

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109	Desalination and removal of organic micropollutants and microorganisms by membrane distillation. Desalination, 2018, 437, 121-132.	4.0	42
110	Optimization of the degradation of imazalil by photocatalysis: Comparison between commercial and lab-made photocatalysts. Applied Catalysis B: Environmental, 2013, 138-139, 391-400.	10.8	41
111	Bacteria and fungi inactivation by photocatalysis under UVA irradiation: liquid and gas phase. Environmental Science and Pollution Research, 2017, 24, 6372-6381.	2.7	40
112	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.	6.6	40
113	UV-A activation of peroxymonosulfate for the removal of micropollutants from secondary treated wastewater. Science of the Total Environment, 2021, 770, 145299.	3.9	40
114	Nanodiamondâ€“TiO₂ composites for photocatalytic degradation of microcystin-LA in aqueous solutions under simulated solar light. RSC Advances, 2015, 5, 58363-58370.	1.7	39
115	Photocatalytic activity of functionalized nanodiamond-TiO2 composites towards water pollutants degradation under UV/Vis irradiation. Applied Surface Science, 2018, 458, 839-848.	3.1	38
116	A life cycle assessment of solar-based treatments (H2O2, TiO2 photocatalysis, circumneutral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 761, 143258.	3.9	38
117	Pt-catalysts supported on activated carbons for catalytic wet air oxidation of aniline: Activity and stability. Applied Catalysis B: Environmental, 2011, 105, 86-94.	10.8	37
118	Dual enantioselective LCâ€“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.	1.4	37
119	Intensification strategies for improving the performance of photocatalytic processes: A review. Journal of Cleaner Production, 2022, 340, 130800.	4.6	37
120	Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde. Applied Catalysis A: General, 2012, 425-426, 161-169.	2.2	36
121	Eco-friendly LCâ€“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.	1.9	36
122	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.	3.9	36
123	Role of Nitrogen Doping on the Performance of Carbon Nanotube Catalysts: A Catalytic Wet Peroxide Oxidation Application. ChemCatChem, 2016, 8, 2068-2078.	1.8	34
124	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. Chemical Engineering Journal, 2012, 204-206, 244-257.	6.6	33
125	Nanodiamondâ€“TiO₂ Composites for Heterogeneous Photocatalysis. ChemPlusChem, 2013, 78, 801-807.	1.3	33
126	Photocatalytic oxidation of gaseous perchloroethylene over TiO 2 based paint. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 311, 41-52.	2.0	33

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127	Distribution of micropollutants in estuarine and sea water along the Portuguese coast. Marine Pollution Bulletin, 2020, 154, 111120.	2.3	33
128	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.	10.8	32
129	Perchloroethylene gas-phase degradation over titania-coated transparent monoliths. Applied Catalysis B: Environmental, 2013, 140-141, 444-456.	10.8	32
130	Development of glycerol-based metal-free carbon materials for environmental catalytic applications. Catalysis Today, 2015, 240, 61-66.	2.2	32
131	In situ growth and crystallization of TiO2 on polymeric membranes for the photocatalytic degradation of diclofenac and 17Î±-ethinylestradiol. Chemical Engineering Journal, 2022, 427, 131476.	6.6	32
132	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.	2.7	31
133	Pillared interlayered natural clays as heterogeneous photocatalysts for H2O2-assisted treatment of a winery wastewater. Separation and Purification Technology, 2019, 228, 115768.	3.9	31
134	Catalytic and Noncatalytic Wet Oxidation of Formaldehyde. A Novel Kinetic Model. Industrial & Engineering Chemistry Research, 2003, 42, 5099-5108.	1.8	30
135	Evaluation of a solar/UV annular pilot scale reactor for 24h continuous photocatalytic oxidation of n-decane. Chemical Engineering Journal, 2015, 280, 409-416.	6.6	30
136	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.	4.1	30
137	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.	10.8	29
138	Degradation of methylparaben by sonocatalysis using a Coâ€“Fe magnetic carbon xerogel. Ultrasonics Sonochemistry, 2020, 64, 105045.	3.8	29
139	Polymer microfluidic devices: an overview of fabrication methods. U Porto Journal of Engineering, 2015, 1, 67-79.	0.2	29
140	Continuous flow photo-Fenton treatment of ciprofloxacin in aqueous solutions using homogeneous and magnetically recoverable catalysts. Environmental Science and Pollution Research, 2014, 21, 11116-11125.	2.7	28
141	Mined pyrite and chalcopyrite as catalysts for spontaneous acidic pH adjustment in Fenton and LED photoâ€Fentonâ€like processes. Journal of Chemical Technology and Biotechnology, 2018, 93, 1137-1146.	1.6	28
142	Immobilised Cerium-Doped Zinc Oxide as a Photocatalyst for the Degradation of Antibiotics and the Inactivation of Antibiotic-Resistant Bacteria. Catalysts, 2019, 9, 222.	1.6	28
143	Advanced oxidation processes for treatment of effluents from a detergent industry. Environmental Technology (United Kingdom), 2011, 32, 1031-1041.	1.2	27
144	Catalytic wet oxidation of organic compounds over N-doped carbon nanotubes in batch and continuous operation. Applied Catalysis B: Environmental, 2016, 199, 361-371.	10.8	27

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145	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.	4.1	27
146	Visible-light-induced self-cleaning functional fabrics using graphene oxide/carbon nitride materials. Applied Surface Science, 2019, 497, 143757.	3.1	27
147	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.	2.2	27
148	Wet Air Oxidation of Aniline Using Carbon Foams and Fibers Enriched with Nitrogen. Separation Science and Technology, 2010, 45, 1546-1554.	1.3	26
149	Evaluation of solâ€“gel TiO 2 photocatalysts modified with carbon or boron compounds and crystallized in nitrogen or air atmospheres. Chemical Engineering Journal, 2015, 277, 11-20.	6.6	26
150	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.	10.8	26
151	Persulfate activation by reduced graphene oxide membranes: Practical and mechanistic insights concerning organic pollutants abatement. Chemical Engineering Journal, 2022, 427, 130994.	6.6	26
152	Adopting strategies to improve the efficiency of ozonation in the realâ€scale treatment of olive oil mill wastewaters. Environmental Technology (United Kingdom), 2010, 31, 1459-1469.	1.2	25
153	Solanum nigrum L. weed plants as a remediation tool for metalaxyl-polluted effluents and soils. Chemosphere, 2011, 85, 744-750.	4.2	25
154	Advanced oxidation technologies combined with direct contact membrane distillation for treatment of secondary municipal wastewater. Chemical Engineering Research and Design, 2020, 140, 111-123.	2.7	25
155	Activated carbon xerogelâ€“chitosan composite materials for catalytic wet peroxide oxidation under intensified process conditions. Journal of Environmental Chemical Engineering, 2015, 3, 1243-1251.	3.3	24
156	Advanced oxidation technologies and constructed wetlands in aquaculture farms: What do we know so far about micropollutant removal?. Environmental Research, 2022, 204, 111955.	3.7	24
157	Catalytic wet oxidation of ethylene glycol: kinetics of reaction on a Mnâ€“Ceâ€“O catalyst. Chemical Engineering Science, 2004, 59, 5291-5299.	1.9	23
158	Controlling the Surface Chemistry of Multiwalled Carbon Nanotubes for the Production of Highly Efficient and Stable Laccaseâ€Based Biocatalysts. ChemPlusChem, 2014, 79, 1116-1122.	1.3	23
159	The role of cobalt in bimetallic iron-cobalt magnetic carbon xerogels developed for catalytic wet peroxide oxidation. Catalysis Today, 2017, 296, 66-75.	2.2	23
160	Removal of Sudan IV from a simulated biphasic oily wastewater by using lipophilic carbon adsorbents. Chemical Engineering Journal, 2018, 347, 963-971.	6.6	23
161	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.	2.7	23
162	Degradation of trinitrophenol by sequential catalytic wet air oxidation and solar TiO2 photocatalysis. Chemical Engineering Journal, 2011, 172, 634-640.	6.6	22

#	Article	IF	Citations
163	Removal of Organic Micropollutants from a Municipal Wastewater Secondary Effluent by UVA-LED Photocatalytic Ozonation. Catalysts, 2019, 9, 472.	1.6	22
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