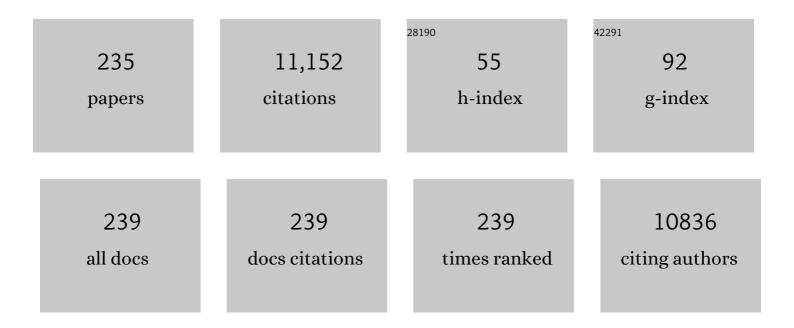
VÃ-tor J P Vilar

List of Publications by Year in descending order

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VÃTOR L D VILAR

#	Article	IF	CITATIONS
1	Electrochemical advanced oxidation processes: A review on their application to synthetic and real wastewaters. Applied Catalysis B: Environmental, 2017, 202, 217-261.	10.8	1,579
2	Oil and grease removal from wastewaters: Sorption treatment as an alternative to state-of-the-art technologies. A critical review. Chemical Engineering Journal, 2016, 297, 229-255.	6.6	239
3	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. Environmental Technology (United Kingdom), 2011, 32, 231-249.	1.2	224
4	Methylene blue adsorption by algal biomass based materials: Biosorbents characterization and process behaviour. Journal of Hazardous Materials, 2007, 147, 120-132.	6.5	187
5	Photocatalytic reduction of Cr(VI) over TiO2-coated cellulose acetate monolithic structures using solar light. Applied Catalysis B: Environmental, 2017, 203, 18-30.	10.8	187
6	Decolorization and mineralization of Sunset Yellow FCF azo dye by anodic oxidation, electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton processes. Applied Catalysis B: Environmental, 2013, 142-143, 877-890.	10.8	172
7	Degradation of the antibiotic trimethoprim by electrochemical advanced oxidation processes using a carbon-PTFE air-diffusion cathode and a boron-doped diamond or platinum anode. Applied Catalysis B: Environmental, 2014, 160-161, 492-505.	10.8	169
8	Influence of pH, ionic strength and temperature on lead biosorption by Gelidium and agar extraction algal waste. Process Biochemistry, 2005, 40, 3267-3275.	1.8	164
9	Coconut-based biosorbents for water treatment — A review of the recent literature. Advances in Colloid and Interface Science, 2010, 160, 1-15.	7.0	159
10	Photocatalytic degradation of oxytetracycline using TiO2 under natural and simulated solar radiation. Solar Energy, 2011, 85, 2732-2740.	2.9	147
11	Equilibrium and kinetic modelling of Cd(II) biosorption by algae Gelidium and agar extraction algal waste. Water Research, 2006, 40, 291-302.	5.3	141
12	Optimization of coagulation–flocculation and flotation parameters for the treatment of a petroleum refinery effluent from a Portuguese plant. Chemical Engineering Journal, 2012, 183, 117-123.	6.6	134
13	Use of cork powder and granules for the adsorption of pollutants: A review. Water Research, 2012, 46, 3152-3166.	5.3	130
14	Waste metal hydroxide sludge as adsorbent for a reactive dye. Journal of Hazardous Materials, 2008, 153, 999-1008.	6.5	116
15	Tertiary treatment of a municipal wastewater toward pharmaceuticals removal by chemical and electrochemical advanced oxidation processes. Water Research, 2016, 105, 251-263.	5.3	115
16	Incorporation of electrochemical advanced oxidation processes in a multistage treatment system for sanitary landfill leachate. Water Research, 2015, 81, 375-387.	5.3	103
17	Enhancement of a solar photo-Fenton reaction by using ferrioxalate complexes for the treatment of a synthetic cotton-textile dyeing wastewater. Chemical Engineering Journal, 2015, 277, 86-96.	6.6	103
18	Copper removal by algae Gelidium, agar extraction algal waste and granulated algal waste: Kinetics and equilibrium. Bioresource Technology, 2008, 99, 750-762.	4.8	101

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19	Enhancement of the photo-Fenton reaction at near neutral pH through the use of ferrioxalate complexes: A case study on trimethoprim and sulfamethoxazole antibiotics removal from aqueous solutions. Chemical Engineering Journal, 2014, 247, 302-313.	6.6	100
20	Removal of metal ions from a petrochemical wastewater using brown macro-algae as natural cation-exchangers. Chemical Engineering Journal, 2016, 286, 1-15.	6.6	98
21	Insights into solar TiO2-assisted photocatalytic oxidation of two antibiotics employed in aquatic animal production, oxolinic acid and oxytetracycline. Science of the Total Environment, 2013, 463-464, 274-283.	3.9	97
22	Treatment of a sanitary landfill leachate using combined solar photo-Fenton and biological immobilized biomass reactor at a pilot scale. Water Research, 2011, 45, 2647-2658.	5.3	95
23	Insights into real cotton-textile dyeing wastewater treatment using solar advanced oxidation processes. Environmental Science and Pollution Research, 2014, 21, 932-945.	2.7	91
24	Landfill leachate treatment by solar-driven AOPs. Solar Energy, 2011, 85, 46-56.	2.9	88
25	Suspended TiO2-assisted photocatalytic degradation of emerging contaminants in a municipal WWTP effluent using a solar pilot plant with CPCs. Chemical Engineering Journal, 2012, 198-199, 301-309.	6.6	87
26	As(III) and Cr(VI) oxyanion removal from water by advanced oxidation/reduction processes—a review. Environmental Science and Pollution Research, 2019, 26, 2203-2227.	2.7	87
27	Treatment of textile wastewaters by solar-driven advanced oxidation processes. Solar Energy, 2011, 85, 1927-1934.	2.9	83
28	Biodegradability enhancement of a pesticide-containing bio-treated wastewater using a solar photo-Fenton treatment step followed by a biological oxidation process. Water Research, 2012, 46, 4599-4613.	5.3	82
29	Assessment of a multistage system based on electrocoagulation, solar photo-Fenton and biological oxidation processes for real textile wastewater treatment. Chemical Engineering Journal, 2014, 252, 120-130.	6.6	82
30	Process enhancement at near neutral pH of a homogeneous photo-Fenton reaction using ferricarboxylate complexes: Application to oxytetracycline degradation. Chemical Engineering Journal, 2014, 253, 217-228.	6.6	81
31	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
32	Insights into solar photo-Fenton process using iron(III)–organic ligand complexes applied to real textile wastewater treatment. Chemical Engineering Journal, 2015, 266, 203-212.	6.6	80
33	Degradation of trimethoprim antibiotic by UVA photoelectro-Fenton process mediated by Fe(III)–carboxylate complexes. Applied Catalysis B: Environmental, 2015, 162, 34-44.	10.8	79
34	Enhancement of a solar photo-Fenton reaction with ferric-organic ligands for the treatment of acrylic-textile dyeing wastewater. Journal of Environmental Management, 2015, 152, 120-131.	3.8	78
35	Effect of TiO2 photocatalysis on the destruction of Microcystis aeruginosa cells and degradation of cyanotoxins microcystin-LR and cylindrospermopsin. Chemical Engineering Journal, 2015, 268, 144-152.	6.6	77
36	Scale-up and cost analysis of a photo-Fenton system for sanitary landfill leachate treatment. Chemical Engineering Journal, 2016, 283, 76-88.	6.6	76

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37	Intensification of heterogeneous TiO2 photocatalysis using an innovative micro–meso-structured-reactor for Cr(VI) reduction under simulated solar light. Chemical Engineering Journal, 2017, 318, 76-88.	6.6	76
38	Intensification of a solar photo-Fenton reaction at near neutral pH with ferrioxalate complexes: A case study on diclofenac removal from aqueous solutions. Chemical Engineering Journal, 2014, 256, 448-457.	6.6	75
39	Solar photocatalytic reduction of Cr(VI) over Fe(III) in the presence of organic sacrificial agents. Applied Catalysis B: Environmental, 2016, 192, 208-219.	10.8	74
40	Multistage treatment system for raw leachate fromÂsanitary landfill combining biological nitrification–denitrification/solar photo-Fenton/biological processes, at a scale close to industrial – Biodegradability enhancement and evolution profile of trace pollutants. Water Research, 2013, 47, 6167-6186.	5.3	71
41	Remediation of a synthetic textile wastewater from polyester-cotton dyeing combining biological and photochemical oxidation processes. Separation and Purification Technology, 2017, 172, 450-462.	3.9	69
42	Photocatalytic membrane reactor performance towards oxytetracycline removal from synthetic and real matrices: Suspended vs immobilized TiO2-P25. Chemical Engineering Journal, 2019, 378, 122114.	6.6	69
43	Remediation of a winery wastewater combining aerobic biological oxidation and electrochemical advanced oxidation processes. Water Research, 2015, 75, 95-108.	5.3	68
44	Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. Journal of Environmental Management, 2018, 223, 215-253.	3.8	68
45	Integrated reduction/oxidation reactions and sorption processes for Cr(VI) removal from aqueous solutions using Laminaria digitata macro-algae. Chemical Engineering Journal, 2014, 237, 443-454.	6.6	66
46	Electrochemical advanced oxidation processes for sanitary landfill leachate remediation: Evaluation of operational variables. Applied Catalysis B: Environmental, 2016, 182, 161-171.	10.8	66
47	Copper desorption from Gelidium algal biomass. Water Research, 2007, 41, 1569-1579.	5.3	65
48	Ozonation and ozone-enhanced photocatalysis for VOC removal from air streams: Process optimization, synergy and mechanism assessment. Science of the Total Environment, 2019, 687, 1357-1368.	3.9	62
49	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
50	Integrated hydrological and water quality model for river management: A case study on Lena River. Science of the Total Environment, 2014, 485-486, 474-489.	3.9	61
51	Removal of hexavalent chromium from electroplating wastewaters using marine macroalga Pelvetia canaliculata as natural electron donor. Chemical Engineering Journal, 2016, 290, 477-489.	6.6	61
52	An innovative multistage treatment system for sanitary landfill leachate depuration: Studies at pilot-scale. Science of the Total Environment, 2017, 576, 99-117.	3.9	60
53	Ferrioxalate complexes as strategy to drive a photo-FENTON reaction at mild pH conditions: A case study on levofloxacin oxidation. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 345, 109-123.	2.0	59
54	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

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55	A step forward in heterogeneous photocatalysis: Process intensification by using a static mixer as catalyst support. Chemical Engineering Journal, 2018, 343, 597-606.	6.6	57
56	Chemical and electrochemical advanced oxidation processes as a polishing step for textile wastewater treatment: A study regarding the discharge into the environment and the reuse in the textile industry. Journal of Cleaner Production, 2018, 198, 430-442.	4.6	57
57	Chromium and zinc uptake by algae Gelidium and agar extraction algal waste: Kinetics and equilibrium. Journal of Hazardous Materials, 2007, 149, 643-649.	6.5	56
58	Intensification of heterogeneous TiO 2 photocatalysis using an innovative micro-meso-structured-photoreactor for n -decane oxidation at gas phase. Chemical Engineering Journal, 2017, 310, 331-341.	6.6	56
59	Copper removal by algal biomass: Biosorbents characterization and equilibrium modelling. Journal of Hazardous Materials, 2009, 163, 1113-1122.	6.5	55
60	Application of biological oxidation and solar driven advanced oxidation processes to remediation of winery wastewater. Catalysis Today, 2013, 209, 201-208.	2.2	55
61	Marine macroalgae Pelvetia canaliculata (Phaeophyceae) as a natural cation exchanger for cadmium and lead ions separation in aqueous solutions. Chemical Engineering Journal, 2014, 242, 294-305.	6.6	54
62	Continuous biosorption of Pb/Cu and Pb/Cd in fixed-bed column using algae Gelidium and granulated agar extraction algal waste. Journal of Hazardous Materials, 2008, 154, 1173-1182.	6.5	53
63	Inactivation of Bacteria E. coli and photodegradation of humic acids using natural sunlight. Applied Catalysis B: Environmental, 2009, 88, 283-291.	10.8	53
64	Decontamination of cork wastewaters by solar-photo-Fenton process using cork bleaching wastewater as H2O2 source. Solar Energy, 2011, 85, 579-587.	2.9	53
65	Insights on sulfamethoxazole bio-transformation by environmental Proteobacteria isolates. Journal of Hazardous Materials, 2018, 358, 310-318.	6.5	52
66	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. Industrial & Engineering Chemistry Research, 2013, 52, 16427-16435.	1.8	51
67	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
68	Solar treatment of cork boiling and bleaching wastewaters in a pilot plant. Water Research, 2009, 43, 4050-4062.	5.3	49
69	Optimization of nickel biosorption by chemically modified brown macroalgae (Pelvetia canaliculata). Chemical Engineering Journal, 2012, 193-194, 256-266.	6.6	49
70	Solar photo-Fenton as a pre-oxidation step for biological treatment of landfill leachate in a pilot plant with CPCs. Catalysis Today, 2011, 161, 228-234.	2.2	48
71	Watershed model parameter estimation and uncertainty in data-limited environments. Environmental Modelling and Software, 2014, 51, 84-93.	1.9	48
72	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

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73	Application of the Nernst–Planck approach to lead ion exchange in Ca-loaded Pelvetia canaliculata. Water Research, 2010, 44, 3946-3958.	5.3	46
74	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. Water, Air, and Soil Pollution, 2012, 223, 5549-5561.	1.1	46
75	Sanitary landfill leachate treatment using combined solar photo-Fenton and biological oxidation processes at pre-industrial scale. Chemical Engineering Journal, 2013, 228, 850-866.	6.6	46
76	Brown macro-algae as natural cation exchangers for the treatment of zinc containing wastewaters generated in the galvanizing process. Journal of Cleaner Production, 2016, 119, 38-49.	4.6	46
77	Biodegradability enhancement of a leachate after biological lagooning using a solar driven photo-Fenton reaction, and further combination with an activated sludge biological process, at pre-industrial scale. Water Research, 2013, 47, 3543-3557.	5.3	45
78	Marine macroalgae Pelvetia canaliculata (Linnaeus) as natural cation exchanger for metal ions separation: A case study on copper and zinc ions removal. Chemical Engineering Journal, 2014, 247, 320-329.	6.6	44
79	Ozone-driven processes for mature urban landfill leachate treatment: Organic matter degradation, biodegradability enhancement and treatment costs for different reactors configuration. Science of the Total Environment, 2020, 724, 138083.	3.9	44
80	Biosorption of copper by marine algae Gelidium and algal composite material in a packed bed column. Bioresource Technology, 2008, 99, 5830-5838.	4.8	43
81	Adding value to marine macro-algae Laminaria digitata through its use in the separation and recovery of trivalent chromium ions from aqueous solution. Chemical Engineering Journal, 2012, 193-194, 348-357.	6.6	43
82	Cow bones char as a green sorbent for fluorides removal from aqueous solutions: batch and fixed-bed studies. Environmental Science and Pollution Research, 2017, 24, 2364-2380.	2.7	43
83	Nitrogen Removal from Landfill Leachate by Microalgae. International Journal of Molecular Sciences, 2016, 17, 1926.	1.8	42
84	Treatment of a pesticide-containing wastewater using combined biological and solar-driven AOPs at pilot scale. Chemical Engineering Journal, 2012, 209, 429-441.	6.6	41
85	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
86	Application of ecofriendly cation exchangers (Gracilaria caudata and Gracilaria cervicornis) for metal ions separation and recovery from a synthetic petrochemical wastewater: Batch and fixed bed studies. Journal of Cleaner Production, 2018, 172, 1928-1945.	4.6	40
87	Inhibition effect of zinc, cadmium, and nickel ions in microalgal growth and nutrient uptake from water: An experimental approach. Chemical Engineering Journal, 2019, 366, 358-367.	6.6	40
88	Equilibrium and kinetic modelling of Pb2+ biosorption by granulated agar extraction algal waste. Process Biochemistry, 2005, 40, 3276-3284.	1.8	39
89	Performance evaluation of different solar advanced oxidation processes applied to the treatment of a real textile dyeing wastewater. Environmental Science and Pollution Research, 2015, 22, 833-845.	2.7	39
90	Lead and copper biosorption by marine red algae Gelidium and algal composite material in a CSTR ("Carberry―type). Chemical Engineering Journal, 2008, 138, 249-257.	6.6	38

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91	Solar photocatalytic oxidation of recalcitrant natural metabolic by-products of amoxicillin biodegradation. Water Research, 2014, 65, 307-320.	5.3	38
92	Photolytic and TiO2-assisted photocatalytic oxidation of the anxiolytic drug lorazepam (Lorenin®) Tj ETQq0 0 Energy, 2013, 87, 219-228.	0 rgBT /Ov 2.9	erlock 10 Tf 5 37
93	Insights into solar photo-Fenton reaction parameters in the oxidation of a sanitary landfill leachate at lab-scale. Journal of Environmental Management, 2015, 164, 32-40.	3.8	37
94	Intensification of heterogeneous TiO2 photocatalysis using the NETmix mili-photoreactor under microscale illumination for oxytetracycline oxidation. Science of the Total Environment, 2019, 681, 467-474.	3.9	37
95	Treatment train for mature landfill leachates: Optimization studies. Science of the Total Environment, 2019, 673, 470-479.	3.9	37
96	Strategies for the intensification of photocatalytic oxidation processes towards air streams decontamination: A review. Chemical Engineering Journal, 2020, 391, 123531.	6.6	37
97	Innovative light-driven chemical/catalytic reactors towards contaminants of emerging concern mitigation: A review. Chemical Engineering Journal, 2020, 394, 124865.	6.6	36
98	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. Adsorption, 2007, 13, 587-601.	1.4	35
99	Insights into trivalent chromium biosorption onto protonated brown algae Pelvetia canaliculata: Distribution of chromium ionic species on the binding sites. Chemical Engineering Journal, 2012, 200-202, 140-148.	6.6	35
100	New insights on the removal of mineral oil from oil-in-water emulsions using cork by-products: Effect of salt and surfactants content. Chemical Engineering Journal, 2016, 285, 709-717.	6.6	35
101	Assessment of indoor airborne contamination in a wastewater treatment plant. Environmental Monitoring and Assessment, 2013, 185, 59-72.	1.3	34
102	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. Chemical Engineering Journal, 2012, 204-206, 244-257.	6.6	33
103	Photocatalytic oxidation of gaseous perchloroethylene over TiO 2 based paint. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 311, 41-52.	2.0	33
104	Design of a fixed-bed ion-exchange process for the treatment of rinse waters generated in the galvanization process using Laminaria hyperborea as natural cation exchanger. Water Research, 2016, 90, 354-368.	5.3	33
105	Integration of Fenton's reaction based processes and cation exchange processes in textile wastewater treatment as a strategy for water reuse. Journal of Environmental Management, 2020, 272, 111082.	3.8	33
106	Tube-in-tube membrane reactor for heterogeneous TiO2 photocatalysis with radial addition of H2O2. Chemical Engineering Journal, 2020, 395, 124998.	6.6	33
107	Water quality modelling of Lis River, Portugal. Environmental Science and Pollution Research, 2013, 20, 508-524.	2.7	32
108	Perchloroethylene gas-phase degradation over titania-coated transparent monoliths. Applied Catalysis B: Environmental, 2013, 140-141, 444-456.	10.8	32

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109	Oxidation of microcystin-LR and cylindrospermopsin by heterogeneous photocatalysis using a tubular photoreactor packed with different TiO2 coated supports. Chemical Engineering Journal, 2015, 266, 100-111.	6.6	31
110	Biodegradability and toxicity assessment of a real textile wastewater effluent treated by an optimized electrocoagulation process. Environmental Technology (United Kingdom), 2015, 36, 496-506.	1.2	31
111	Novel cork-graphite electrochemical sensor for voltammetric determination of caffeine. Journal of Electroanalytical Chemistry, 2019, 839, 283-289.	1.9	31
112	Performance of hybrid systems coupling advanced oxidation processes and ultrafiltration for oxytetracycline removal. Catalysis Today, 2019, 328, 274-280.	2.2	31
113	Assessing the potential of microalgae for nutrients removal from a landfill leachate using an innovative tubular photobioreactor. Chemical Engineering Journal, 2021, 413, 127546.	6.6	31
114	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
115	Kinetics and equilibrium modelling of lead uptake by algae Gelidium and algal waste from agar extraction industry. Journal of Hazardous Materials, 2007, 143, 396-408.	6.5	29
116	Strategies to reduce mass and photons transfer limitations in heterogeneous photocatalytic processes: Hexavalent chromium reduction studies. Journal of Environmental Management, 2018, 217, 555-564.	3.8	29
117	Assessment of solar driven TiO2-assisted photocatalysis efficiency on amoxicillin degradation. Environmental Science and Pollution Research, 2014, 21, 1292-1303.	2.7	28
118	Assessment of AOPs as a polishing step in the decolourisation of bio-treated textile wastewater: Technical and economic considerations. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 317, 26-38.	2.0	28
119	The Effect of Light Wavelength on CO2 Capture, Biomass Production and Nutrient Uptake by Green Microalgae: A Step Forward on Process Integration and Optimisation. Energies, 2020, 13, 333.	1.6	28
120	Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant. Photochemical and Photobiological Sciences, 2009, 8, 691-698.	1.6	27
121	Evaluation of solar photo-Fenton parameters on the pre-oxidation of leachates from a sanitary landfill. Solar Energy, 2012, 86, 3301-3315.	2.9	27
122	Treatment of vegetable oil refinery wastewater by sorption of oil and grease onto regranulated cork – A study in batch and continuous mode. Chemical Engineering Journal, 2015, 268, 92-101.	6.6	27
123	Marine macro-alga Sargassum cymosum as electron donor for hexavalent chromium reduction to trivalent state in aqueous solutions. Chemical Engineering Journal, 2016, 283, 903-910.	6.6	27
124	Sulphur compounds removal from an industrial landfill leachate by catalytic oxidation and chemical precipitation: From a hazardous effluent to a value-added product. Science of the Total Environment, 2019, 655, 1249-1260.	3.9	27
125	Single and combined electrochemical oxidation driven processes for the treatment of slaughterhouse wastewater. Journal of Cleaner Production, 2020, 270, 121858.	4.6	27
126	Ion-exchange breakthrough curves for single and multi-metal systems using marine macroalgae Pelvetia canaliculata as a natural cation exchanger. Chemical Engineering Journal, 2015, 269, 359-370.	6.6	26

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127	Development of an integrated treatment strategy for a leather tannery landfill leachate. Waste Management, 2019, 89, 114-128.	3.7	26
128	Effect of catalyst coated surface, illumination mechanism and light source in heterogeneous TiO2 photocatalysis using a mili-photoreactor for n-decane oxidation at gas phase. Chemical Engineering Journal, 2019, 366, 560-568.	6.6	26
129	Tube-in-tube membrane photoreactor as a new technology to boost sulfate radical advanced oxidation processes. Water Research, 2021, 191, 116815.	5.3	26
130	Cost-effective solar collector to promote photo-Fenton reactions: A case study on the treatment of urban mature leachate. Journal of Cleaner Production, 2018, 199, 369-382.	4.6	25
131	An innovative photoreactor, FluHelik, to promote UVC/H2O2 photochemical reactions: Tertiary treatment of an urban wastewater. Science of the Total Environment, 2019, 667, 197-207.	3.9	25
132	Selecting the best piping arrangement for scaling-up an annular channel reactor: An experimental and computational fluid dynamics study. Science of the Total Environment, 2019, 667, 821-832.	3.9	25
133	Water quality in Lis river, Portugal. Environmental Monitoring and Assessment, 2012, 184, 7125-7140.	1.3	24
134	Insights into nanofiltration of textile wastewaters for water reuse. Clean Technologies and Environmental Policy, 2014, 16, 591-600.	2.1	24
135	Multidrug-resistant Enterobacteriaceae from indoor air of an urban wastewater treatment plant. Environmental Monitoring and Assessment, 2016, 188, 388.	1.3	24
136	Intensifying heterogeneous TiO2 photocatalysis for bromate reduction using the NETmix photoreactor. Science of the Total Environment, 2019, 664, 805-816.	3.9	24
137	Multistage treatment technology for leachate from mature urban landfill: Full scale operation performance and challenges. Chemical Engineering Journal, 2019, 376, 120573.	6.6	24
138	Industrial steel waste as an iron source to promote heterogeneous and homogeneous oxidation/reduction reactions. Journal of Cleaner Production, 2019, 211, 804-817.	4.6	24
139	Synthetic and natural waters disinfection using natural solar radiation in a pilot plant with CPCs. Catalysis Today, 2009, 144, 55-61.	2.2	23
140	Water quality in Minho/Miño River (Portugal/Spain). Environmental Monitoring and Assessment, 2013, 185, 3269-3281.	1.3	23
141	Biological treatment by activated sludge of petroleum refinery wastewaters. Desalination and Water Treatment, 2013, 51, 6641-6654.	1.0	22
142	Optimization of a primary gravity separation treatment for vegetable oil refinery wastewaters. Clean Technologies and Environmental Policy, 2014, 16, 1725-1734.	2.1	22
143	Cation exchange prediction model for copper binding onto raw brown marine macro-algae Ascophyllum nodosum: Batch and fixed-bed studies. Chemical Engineering Journal, 2017, 316, 255-276.	6.6	22
144	Effect of Cu(II), Cd(II) and Zn(II) on Pb(II) biosorption by algae Gelidium-derived materials. Journal of Hazardous Materials, 2008, 154, 711-720.	6.5	21

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145	Effect of Ion Exchange on the Adsorption of Steam Methane Reforming Off-Gases on Zeolite 13X. Journal of Chemical & Engineering Data, 2010, 55, 184-195.	1.0	21
146	Comparative analysis of trace contaminants in leachates before and after a pre-oxidation using a solar photo-Fenton reaction. Environmental Science and Pollution Research, 2013, 20, 5994-6006.	2.7	21
147	How the performance of a biological pre-oxidation step can affect a downstream photo-Fenton process on the remediation of mature landfill leachates: Assessment of kinetic parameters and characterization of the bacterial communities. Separation and Purification Technology, 2017, 175, 274-286.	3.9	21
148	Photocatalytic NOx abatement: Mathematical modeling, CFD validation and reactor analysis. Journal of Hazardous Materials, 2019, 372, 145-153.	6.5	21
149	Photodegradation behaviour of multiclass ultraviolet filters in the aquatic environment: Removal strategies and photoproduct identification by liquid chromatography–high resolution mass spectrometry. Journal of Chromatography A, 2019, 1596, 8-19.	1.8	21
150	Tube-in-tube membrane microreactor for photochemical UVC/H2O2 processes: A proof of concept. Chemical Engineering Journal, 2020, 379, 122341.	6.6	21
151	Heterogeneous photocatalytic degradation of pharmaceuticals in synthetic and real matrices using a tube-in-tube membrane reactor with radial addition of H2O2. Science of the Total Environment, 2020, 743, 140629.	3.9	21
152	Lead uptake by algae Gelidium and composite material particles in a packed bed column. Chemical Engineering Journal, 2008, 144, 420-430.	6.6	20
153	Applicability of MIEX®DOC process for organics removal from NOM laden water. Environmental Science and Pollution Research, 2013, 20, 3890-3899.	2.7	20
154	Benzene, toluene and o-xylene (BTX) removal from aqueous solutions through adsorptive processes. Adsorption, 2014, 20, 577.	1.4	20
155	Large area continuous multilayer graphene membrane for water desalination. Chemical Engineering Journal, 2021, 413, 127510.	6.6	20
156	Functionalized mesoporous silicas SBA-15 for heterogeneous photocatalysis towards CECs removal from secondary urban wastewater. Chemosphere, 2022, 287, 132023.	4.2	19
157	Cadmium uptake by algal biomass in batch and continuous (CSTR and packed bed column) adsorbers. Biochemical Engineering Journal, 2008, 42, 276-289.	1.8	18
158	Removal of Cu and Cr from an industrial effluent using a packed-bed column with algae Gelidium-derived material. Hydrometallurgy, 2009, 96, 42-46.	1.8	18
159	Assessment of advanced oxidation processes for the degradation of three UV filters from swimming pool water. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 351, 95-107.	2.0	18
160	Advances in bromate reduction by heterogeneous photocatalysis: The use of a static mixer as photocatalyst support. Applied Catalysis B: Environmental, 2019, 249, 322-332.	10.8	18
161	Turning Carbon Dioxide and Ethane into Ethanol by Solar-Driven Heterogeneous Photocatalysis over RuO2- and NiO-co-Doped SrTiO3. Catalysts, 2021, 11, 461.	1.6	18
162	Photodegradation of multiclass fungicides in the aquatic environment and determination by liquid chromatography-tandem mass spectrometry. Environmental Science and Pollution Research, 2017, 24, 19181-19193.	2.7	17

#	Article	IF	CITATIONS
163	A tube-in-tube membrane microreactor for tertiary treatment of urban wastewaters by photo-Fenton at neutral pH: A proof of concept. Chemosphere, 2021, 263, 128049.	4.2	17
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