

Vitor J P Vilar

List of Publications by Citations

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225
papers

8,524
citations

48
h-index

81
g-index

239
ext. papers

9,778
ext. citations

9.8
avg, IF

6.6
L-index

#	Paper	IF	Citations
225	Electrochemical advanced oxidation processes: A review on their application to synthetic and real wastewaters. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 217-261	21.8	1108
224	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. <i>Environmental Technology (United Kingdom)</i> , 2011 , 32, 231-49	2.6	176
223	Oil and grease removal from wastewaters: Sorption treatment as an alternative to state-of-the-art technologies. A critical review. <i>Chemical Engineering Journal</i> , 2016 , 297, 229-255	14.7	166
222	Methylene blue adsorption by algal biomass based materials: biosorbents characterization and process behaviour. <i>Journal of Hazardous Materials</i> , 2007 , 147, 120-32	12.8	162
221	Photocatalytic reduction of Cr(VI) over TiO ₂ -coated cellulose acetate monolithic structures using solar light. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 18-30	21.8	154
220	Influence of pH, ionic strength and temperature on lead biosorption by Gelidium and agar extraction algal waste. <i>Process Biochemistry</i> , 2005 , 40, 3267-3275	4.8	146
219	Decolorization and mineralization of Sunset Yellow FCF azo dye by anodic oxidation, electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton processes. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 877-890	21.8	144
218	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. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 492-505	21.8	143
217	Equilibrium and kinetic modelling of Cd(II) biosorption by algae Gelidium and agar extraction algal waste. <i>Water Research</i> , 2006 , 40, 291-302	12.5	127
216	Coconut-based biosorbents for water treatment--a review of the recent literature. <i>Advances in Colloid and Interface Science</i> , 2010 , 160, 1-15	14.3	123
215	Photocatalytic degradation of oxytetracycline using TiO ₂ under natural and simulated solar radiation. <i>Solar Energy</i> , 2011 , 85, 2732-2740	6.8	119
214	Optimization of coagulation-flocculation and flotation parameters for the treatment of a petroleum refinery effluent from a Portuguese plant. <i>Chemical Engineering Journal</i> , 2012 , 183, 117-123	14.7	101
213	Waste metal hydroxide sludge as adsorbent for a reactive dye. <i>Journal of Hazardous Materials</i> , 2008 , 153, 999-1008	12.8	101
212	Use of cork powder and granules for the adsorption of pollutants: a review. <i>Water Research</i> , 2012 , 46, 3152-66	12.5	98
211	Tertiary treatment of a municipal wastewater toward pharmaceuticals removal by chemical and electrochemical advanced oxidation processes. <i>Water Research</i> , 2016 , 105, 251-263	12.5	92
210	Copper removal by algae Gelidium, agar extraction algal waste and granulated algal waste: kinetics and equilibrium. <i>Bioresource Technology</i> , 2008 , 99, 750-62	11	89
209	Enhancement of a solar photo-Fenton reaction by using ferrioxalate complexes for the treatment of a synthetic cotton-textile dyeing wastewater. <i>Chemical Engineering Journal</i> , 2015 , 277, 86-96	14.7	86

208	Treatment of a sanitary landfill leachate using combined solar photo-Fenton and biological immobilized biomass reactor at a pilot scale. <i>Water Research</i> , 2011 , 45, 2647-58	12.5	84
207	Incorporation of electrochemical advanced oxidation processes in a multistage treatment system for sanitary landfill leachate. <i>Water Research</i> , 2015 , 81, 375-87	12.5	82
206	Insights into real cotton-textile dyeing wastewater treatment using solar advanced oxidation processes. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 932-45	5.1	81
205	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. <i>Chemical Engineering Journal</i> , 2014 , 247, 302-313	14.7	80
204	Removal of metal ions from a petrochemical wastewater using brown macro-algae as natural cation-exchangers. <i>Chemical Engineering Journal</i> , 2016 , 286, 1-15	14.7	78
203	Insights into solar TiO ₂ -assisted photocatalytic oxidation of two antibiotics employed in aquatic animal production, oxolinic acid and oxytetracycline. <i>Science of the Total Environment</i> , 2013 , 463-464, 274-83	10.2	78
202	Landfill leachate treatment by solar-driven AOPs. <i>Solar Energy</i> , 2011 , 85, 46-56	6.8	77
201	Treatment of textile wastewaters by solar-driven advanced oxidation processes. <i>Solar Energy</i> , 2011 , 85, 1927-1934	6.8	73
200	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO ₂ /CNT composites. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 65-81	21.8	72
199	Assessment of a multistage system based on electrocoagulation, solar photo-Fenton and biological oxidation processes for real textile wastewater treatment. <i>Chemical Engineering Journal</i> , 2014 , 252, 120-130	14.7	72
198	Biodegradability enhancement of a pesticide-containing bio-treated wastewater using a solar photo-Fenton treatment step followed by a biological oxidation process. <i>Water Research</i> , 2012 , 46, 4599-613	12.5	72
197	Enhancement of a solar photo-Fenton reaction with ferric-organic ligands for the treatment of acrylic-textile dyeing wastewater. <i>Journal of Environmental Management</i> , 2015 , 152, 120-31	7.9	71
196	Insights into solar photo-Fenton process using iron(III)-organic ligand complexes applied to real textile wastewater treatment. <i>Chemical Engineering Journal</i> , 2015 , 266, 203-212	14.7	71
195	Suspended TiO ₂ -assisted photocatalytic degradation of emerging contaminants in a municipal WWTP effluent using a solar pilot plant with CPCs. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 301-309	14.7	71
194	Degradation of trimethoprim antibiotic by UVA photoelectro-Fenton process mediated by Fe(III)-carboxylate complexes. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 34-44	21.8	69
193	Intensification of a solar photo-Fenton reaction at near neutral pH with ferrioxalate complexes: A case study on diclofenac removal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2014 , 256, 448-457	14.7	66
192	Process enhancement at near neutral pH of a homogeneous photo-Fenton reaction using ferricarboxylate complexes: Application to oxytetracycline degradation. <i>Chemical Engineering Journal</i> , 2014 , 253, 217-228	14.7	64
191	Scale-up and cost analysis of a photo-Fenton system for sanitary landfill leachate treatment. <i>Chemical Engineering Journal</i> , 2016 , 283, 76-88	14.7	62

190	Integrated reduction/oxidation reactions and sorption processes for Cr(VI) removal from aqueous solutions using <i>Laminaria digitata</i> macro-algae. <i>Chemical Engineering Journal</i> , 2014 , 237, 443-454	14.7	62
189	Intensification of heterogeneous TiO ₂ photocatalysis using an innovative micro-meso-structured-reactor for Cr(VI) reduction under simulated solar light. <i>Chemical Engineering Journal</i> , 2017 , 318, 76-88	14.7	61
188	Multistage treatment system for raw leachate from sanitary landfill combining biological nitrification-denitrification/solar photo-Fenton/biological processes, at a scale close to industrial—biodegradability enhancement and evolution profile of trace pollutants. <i>Water Research</i> , 2013 , 47, 6167-86	12.5	61
187	Effect of TiO ₂ photocatalysis on the destruction of <i>Microcystis aeruginosa</i> cells and degradation of cyanotoxins microcystin-LR and cylindrospermopsin. <i>Chemical Engineering Journal</i> , 2015 , 268, 144-152	14.7	61
186	Copper desorption from <i>Gelidium</i> algal biomass. <i>Water Research</i> , 2007 , 41, 1569-79	12.5	59
185	Remediation of a synthetic textile wastewater from polyester-cotton dyeing combining biological and photochemical oxidation processes. <i>Separation and Purification Technology</i> , 2017 , 172, 450-462	8.3	55
184	Electrochemical advanced oxidation processes for sanitary landfill leachate remediation: Evaluation of operational variables. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 161-171	21.8	54
183	Remediation of a winery wastewater combining aerobic biological oxidation and electrochemical advanced oxidation processes. <i>Water Research</i> , 2015 , 75, 95-108	12.5	54
182	N-modified TiO ₂ photocatalytic activity towards diphenhydramine degradation and <i>Escherichia coli</i> inactivation in aqueous solutions. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 66-74	21.8	54
181	Integrated hydrological and water quality model for river management: a case study on Lena River. <i>Science of the Total Environment</i> , 2014 , 485-486, 474-489	10.2	53
180	Photocatalytic activity of TiO ₂ -coated glass raschig rings on the degradation of phenolic derivatives under simulated solar light irradiation. <i>Chemical Engineering Journal</i> , 2013 , 224, 32-38	14.7	53
179	Solar photocatalytic reduction of Cr(VI) over Fe(III) in the presence of organic sacrificial agents. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 208-219	21.8	52
178	Copper removal by algal biomass: biosorbents characterization and equilibrium modelling. <i>Journal of Hazardous Materials</i> , 2009 , 163, 1113-22	12.8	48
177	Chromium and zinc uptake by algae <i>Gelidium</i> and agar extraction algal waste: kinetics and equilibrium. <i>Journal of Hazardous Materials</i> , 2007 , 149, 643-9	12.8	48
176	As(III) and Cr(VI) oxyanion removal from water by advanced oxidation/reduction processes—a review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 2203-2227	5.1	48
175	Intensification of heterogeneous TiO ₂ photocatalysis using an innovative micro-meso-structured-photoreactor for n-decane oxidation at gas phase. <i>Chemical Engineering Journal</i> , 2017 , 310, 331-341	14.7	47
174	Removal of hexavalent chromium from electroplating wastewaters using marine macroalga <i>Pelvetia canaliculata</i> as natural electron donor. <i>Chemical Engineering Journal</i> , 2016 , 290, 477-489	14.7	46
173	Optimization of nickel biosorption by chemically modified brown macroalgae (<i>Pelvetia canaliculata</i>). <i>Chemical Engineering Journal</i> , 2012 , 193-194, 256-266	14.7	46

172	Application of biological oxidation and solar driven advanced oxidation processes to remediation of winery wastewater. <i>Catalysis Today</i> , 2013 , 209, 201-208	5.3	46
171	Inactivation of Bacteria E. coli and photodegradation of humic acids using natural sunlight. <i>Applied Catalysis B: Environmental</i> , 2009 , 88, 283-291	21.8	46
170	Continuous biosorption of Pb/Cu and Pb/Cd in fixed-bed column using algae Gelidium and granulated agar extraction algal waste. <i>Journal of Hazardous Materials</i> , 2008 , 154, 1173-82	12.8	46
169	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. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 306-315	21.8	45
168	Ferrioxalate complexes as strategy to drive a photo-FENTON reaction at mild pH conditions: A case study on levofloxacin oxidation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 345, 109-123	4.7	44
167	Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. <i>Journal of Environmental Management</i> , 2018 , 223, 215-253	7.9	44
166	Watershed model parameter estimation and uncertainty in data-limited environments. <i>Environmental Modelling and Software</i> , 2014 , 51, 84-93	5.2	44
165	A step forward in heterogeneous photocatalysis: Process intensification by using a static mixer as catalyst support. <i>Chemical Engineering Journal</i> , 2018 , 343, 597-606	14.7	43
164	Ozonation and ozone-enhanced photocatalysis for VOC removal from air streams: Process optimization, synergy and mechanism assessment. <i>Science of the Total Environment</i> , 2019 , 687, 1357-1368	10.2	42
163	Application of the Nernst-Planck approach to lead ion exchange in Ca-loaded <i>Pelvetia canaliculata</i> . <i>Water Research</i> , 2010 , 44, 3946-58	12.5	42
162	Decontamination of cork wastewaters by solar-photo-Fenton process using cork bleaching wastewater as H ₂ O ₂ source. <i>Solar Energy</i> , 2011 , 85, 579-587	6.8	42
161	An innovative multistage treatment system for sanitary landfill leachate depuration: Studies at pilot-scale. <i>Science of the Total Environment</i> , 2017 , 576, 99-117	10.2	41
160	Marine macroalgae <i>Pelvetia canaliculata</i> (Phaeophyceae) as a natural cation exchanger for cadmium and lead ions separation in aqueous solutions. <i>Chemical Engineering Journal</i> , 2014 , 242, 294-305	14.7	40
159	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16427-16435	3.9	40
158	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. <i>Journal of Cleaner Production</i> , 2018 , 198, 430-442	10.3	40
157	Are TiO ₂ -based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 988-999	21.8	39
156	Sanitary landfill leachate treatment using combined solar photo-Fenton and biological oxidation processes at pre-industrial scale. <i>Chemical Engineering Journal</i> , 2013 , 228, 850-866	14.7	38
155	Adding value to marine macro-algae <i>Laminaria digitata</i> through its use in the separation and recovery of trivalent chromium ions from aqueous solution. <i>Chemical Engineering Journal</i> , 2012 , 193-194, 348-357	14.7	38

154	Solar photo-Fenton as a pre-oxidation step for biological treatment of landfill leachate in a pilot plant with CPCs. <i>Catalysis Today</i> , 2011 , 161, 228-234	5.3	38
153	Solar treatment of cork boiling and bleaching wastewaters in a pilot plant. <i>Water Research</i> , 2009 , 43, 4050-62	12.5	38
152	Brown macro-algae as natural cation exchangers for the treatment of zinc containing wastewaters generated in the galvanizing process. <i>Journal of Cleaner Production</i> , 2016 , 119, 38-49	10.3	37
151	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. <i>Water Research</i> , 2013 , 47, 3543-57	12.5	37
150	Biosorption of copper by marine algae <i>Gelidium</i> and algal composite material in a packed bed column. <i>Bioresource Technology</i> , 2008 , 99, 5830-8	11	37
149	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 5549-5561	2.6	35
148	Insights on sulfamethoxazole bio-transformation by environmental <i>Proteobacteria</i> isolates. <i>Journal of Hazardous Materials</i> , 2018 , 358, 310-318	12.8	34
147	Marine macroalgae <i>Pelvetia canaliculata</i> (Linnaeus) as natural cation exchanger for metal ions separation: A case study on copper and zinc ions removal. <i>Chemical Engineering Journal</i> , 2014 , 247, 320-329	14.7	34
146	Lead and copper biosorption by marine red algae <i>Gelidium</i> and algal composite material in a CSTR (Carberry type). <i>Chemical Engineering Journal</i> , 2008 , 138, 249-257	14.7	34
145	Performance evaluation of different solar advanced oxidation processes applied to the treatment of a real textile dyeing wastewater. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 833-45	5.1	33
144	Photocatalytic membrane reactor performance towards oxytetracycline removal from synthetic and real matrices: Suspended vs immobilized TiO ₂ -P25. <i>Chemical Engineering Journal</i> , 2019 , 378, 1221-14	14.7	33
143	Treatment of a pesticide-containing wastewater using combined biological and solar-driven AOPs at pilot scale. <i>Chemical Engineering Journal</i> , 2012 , 209, 429-441	14.7	32
142	Photolytic and TiO ₂ -assisted photocatalytic oxidation of the anxiolytic drug lorazepam (Lorenin pills) under artificial UV light and natural sunlight: A comparative and comprehensive study. <i>Solar Energy</i> , 2013 , 87, 219-228	6.8	32
141	Equilibrium and kinetic modelling of Pb ²⁺ biosorption by granulated agar extraction algal waste. <i>Process Biochemistry</i> , 2005 , 40, 3276-3284	4.8	32
140	Nitrogen Removal from Landfill Leachate by Microalgae. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	32
139	Application of ecofriendly cation exchangers (<i>Gracilaria caudata</i> and <i>Gracilaria cervicornis</i>) for metal ions separation and recovery from a synthetic petrochemical wastewater: Batch and fixed bed studies. <i>Journal of Cleaner Production</i> , 2018 , 172, 1928-1945	10.3	32
138	Insights into trivalent chromium biosorption onto protonated brown algae <i>Pelvetia canaliculata</i> : Distribution of chromium ionic species on the binding sites. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 140-148	14.7	30
137	Insights into solar photo-Fenton reaction parameters in the oxidation of a sanitary landfill leachate at lab-scale. <i>Journal of Environmental Management</i> , 2015 , 164, 32-40	7.9	29

136	Bacteria and fungi inactivation by photocatalysis under UVA irradiation: liquid and gas phase. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 6372-6381	5.1	29
135	New insights on the removal of mineral oil from oil-in-water emulsions using cork by-products: Effect of salt and surfactants content. <i>Chemical Engineering Journal</i> , 2016 , 285, 709-717	14.7	28
134	Solar photocatalytic oxidation of recalcitrant natural metabolic by-products of amoxicillin biodegradation. <i>Water Research</i> , 2014 , 65, 307-20	12.5	28
133	Perchloroethylene gas-phase degradation over titania-coated transparent monoliths. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 444-456	21.8	28
132	Insights into UV-TiO ₂ photocatalytic degradation of PCE for air decontamination systems. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 244-257	14.7	28
131	Photocatalytic oxidation of gaseous perchloroethylene over TiO ₂ based paint. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 311, 41-52	4.7	27
130	Kinetics and equilibrium modelling of lead uptake by algae <i>Gelidium</i> and algal waste from agar extraction industry. <i>Journal of Hazardous Materials</i> , 2007 , 143, 396-408	12.8	27
129	Assessment of AOPs as a polishing step in the decolourisation of bio-treated textile wastewater: Technical and economic considerations. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 317, 26-38	4.7	26
128	Oxidation of microcystin-LR and cylindrospermopsin by heterogeneous photocatalysis using a tubular photoreactor packed with different TiO ₂ coated supports. <i>Chemical Engineering Journal</i> , 2015 , 266, 100-111	14.7	26
127	Assessment of indoor airborne contamination in a wastewater treatment plant. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 59-72	3.1	26
126	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. <i>Adsorption</i> , 2007 , 13, 587-601	2.6	26
125	Ozone-driven processes for mature urban landfill leachate treatment: Organic matter degradation, biodegradability enhancement and treatment costs for different reactors configuration. <i>Science of the Total Environment</i> , 2020 , 724, 138083	10.2	25
124	Strategies to reduce mass and photons transfer limitations in heterogeneous photocatalytic processes: Hexavalent chromium reduction studies. <i>Journal of Environmental Management</i> , 2018 , 217, 555-564	7.9	25
123	Water quality modelling of Lis River, Portugal. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 508-24	5.1	25
122	Performance of hybrid systems coupling advanced oxidation processes and ultrafiltration for oxytetracycline removal. <i>Catalysis Today</i> , 2019 , 328, 274-280	5.3	25
121	Treatment train for mature landfill leachates: Optimization studies. <i>Science of the Total Environment</i> , 2019 , 673, 470-479	10.2	24
120	Biodegradability and toxicity assessment of a real textile wastewater effluent treated by an optimized electrocoagulation process. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 496-506	2.6	24
119	Cow bones char as a green sorbent for fluorides removal from aqueous solutions: batch and fixed-bed studies. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 2364-2380	5.1	23

118	Assessment of solar driven TiO ₂ -assisted photocatalysis efficiency on amoxicillin degradation. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 1292-303	5.1	23
117	Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 691-8	4.2	23
116	Marine macro-alga <i>Sargassum cymosum</i> as electron donor for hexavalent chromium reduction to trivalent state in aqueous solutions. <i>Chemical Engineering Journal</i> , 2016 , 283, 903-910	14.7	22
115	Treatment of vegetable oil refinery wastewater by sorption of oil and grease onto regranulated cork [A study in batch and continuous mode. <i>Chemical Engineering Journal</i> , 2015 , 268, 92-101	14.7	22
114	Design of a fixed-bed ion-exchange process for the treatment of rinse waters generated in the galvanization process using <i>Laminaria hyperborea</i> as natural cation exchanger. <i>Water Research</i> , 2016 , 90, 354-368	12.5	22
113	Ion-exchange breakthrough curves for single and multi-metal systems using marine macroalgae <i>Pelvetia canaliculata</i> as a natural cation exchanger. <i>Chemical Engineering Journal</i> , 2015 , 269, 359-370	14.7	22
112	Evaluation of solar photo-Fenton parameters on the pre-oxidation of leachates from a sanitary landfill. <i>Solar Energy</i> , 2012 , 86, 3301-3315	6.8	22
111	An innovative photoreactor, FluHelik, to promote UVC/HO photochemical reactions: Tertiary treatment of an urban wastewater. <i>Science of the Total Environment</i> , 2019 , 667, 197-207	10.2	20
110	Evaluation of a solar/UV annular pilot scale reactor for 24 h continuous photocatalytic oxidation of n-decane. <i>Chemical Engineering Journal</i> , 2015 , 280, 409-416	14.7	20
109	Innovative light-driven chemical/catalytic reactors towards contaminants of emerging concern mitigation: A review. <i>Chemical Engineering Journal</i> , 2020 , 394, 124865	14.7	20
108	Tube-in-tube membrane reactor for heterogeneous TiO ₂ photocatalysis with radial addition of H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2020 , 395, 124998	14.7	20
107	Water quality in Lis river, Portugal. <i>Environmental Monitoring and Assessment</i> , 2012 , 184, 7125-40	3.1	20
106	Synthetic and natural waters disinfection using natural solar radiation in a pilot plant with CPCs. <i>Catalysis Today</i> , 2009 , 144, 55-61	5.3	20
105	Sulphur compounds removal from an industrial landfill leachate by catalytic oxidation and chemical precipitation: From a hazardous effluent to a value-added product. <i>Science of the Total Environment</i> , 2019 , 655, 1249-1260	10.2	20
104	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. <i>Separation and Purification Technology</i> , 2017 , 175, 274-286	8.3	19
103	Comparative analysis of trace contaminants in leachates before and after a pre-oxidation using a solar photo-Fenton reaction. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5994-6006	5.1	19
102	Strategies for the intensification of photocatalytic oxidation processes towards air streams decontamination: A review. <i>Chemical Engineering Journal</i> , 2020 , 391, 123531	14.7	19
101	Effect of catalyst coated surface, illumination mechanism and light source in heterogeneous TiO ₂ photocatalysis using a mili-photoreactor for n-decane oxidation at gas phase. <i>Chemical Engineering Journal</i> , 2019 , 366, 560-568	14.7	19

100	Intensifying heterogeneous TiO photocatalysis for bromate reduction using the NETmix photoreactor. <i>Science of the Total Environment</i> , 2019 , 664, 805-816	10.2	18
99	Development of an integrated treatment strategy for a leather tannery landfill leachate. <i>Waste Management</i> , 2019 , 89, 114-128	8.6	18
98	Cost-effective solar collector to promote photo-Fenton reactions: A case study on the treatment of urban mature leachate. <i>Journal of Cleaner Production</i> , 2018 , 199, 369-382	10.3	18
97	Insights into nanofiltration of textile wastewaters for water reuse. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 591-600	4.3	18
96	Water quality in Minho/MiB River (Portugal/Spain). <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 3269-81	3.1	18
95	Lead uptake by algae <i>Gelidium</i> and composite material particles in a packed bed column. <i>Chemical Engineering Journal</i> , 2008 , 144, 420-430	14.7	18
94	Multistage treatment technology for leachate from mature urban landfill: Full scale operation performance and challenges. <i>Chemical Engineering Journal</i> , 2019 , 376, 120573	14.7	18
93	Industrial steel waste as an iron source to promote heterogeneous and homogeneous oxidation/reduction reactions. <i>Journal of Cleaner Production</i> , 2019 , 211, 804-817	10.3	18
92	Novel cork-graphite electrochemical sensor for voltammetric determination of caffeine. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 839, 283-289	4.1	17
91	The Effect of Light Wavelength on CO ₂ Capture, Biomass Production and Nutrient Uptake by Green Microalgae: A Step Forward on Process Integration and Optimisation. <i>Energies</i> , 2020 , 13, 333	3.1	17
90	Optimization of a primary gravity separation treatment for vegetable oil refinery wastewaters. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 1725-1734	4.3	17
89	Applicability of MIEX()DOC process for organics removal from NOM laden water. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3890-9	5.1	17
88	Removal of Cu and Cr from an industrial effluent using a packed-bed column with algae <i>Gelidium</i> -derived material. <i>Hydrometallurgy</i> , 2009 , 96, 42-46	4	17
87	Cadmium uptake by algal biomass in batch and continuous (CSTR and packed bed column) adsorbers. <i>Biochemical Engineering Journal</i> , 2008 , 42, 276-289	4.2	17
86	Effect of Cu(II), Cd(II) and Zn(II) on Pb(II) biosorption by algae <i>Gelidium</i> -derived materials. <i>Journal of Hazardous Materials</i> , 2008 , 154, 711-20	12.8	17
85	Selecting the best piping arrangement for scaling-up an annular channel reactor: An experimental and computational fluid dynamics study. <i>Science of the Total Environment</i> , 2019 , 667, 821-832	10.2	16
84	Multidrug-resistant Enterobacteriaceae from indoor air of an urban wastewater treatment plant. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 388	3.1	16
83	Biological treatment by activated sludge of petroleum refinery wastewaters. <i>Desalination and Water Treatment</i> , 2013 , 51, 6641-6654		16

82	Inhibition effect of zinc, cadmium, and nickel ions in microalgal growth and nutrient uptake from water: An experimental approach. <i>Chemical Engineering Journal</i> , 2019 , 366, 358-367	14.7	16
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