Rui A R Boaventura

List of Publications by Citations

278 papers	12,316 citations	60 h-index	95 g-index
280 ext. papers	13,932 ext. citations	9.1 avg, IF	6.88 L-index

#	Paper	IF	Citations
278	Electrochemical advanced oxidation processes: A review on their application to synthetic and real wastewaters. *Applied Catalysis B: Environmental*, **2017**, 202, 217-261	21.8	1108
277	Arsenic and antimony in water and wastewater: overview of removal techniques with special reference to latest advances in adsorption. *Journal of Environmental Management*, **2015**, 151, 326-42	7.9	365
276	Sediments as monitors of heavy metal contamination in the Ave river basin (Portugal): multivariate analysis of data. *Environmental Pollution*, **1999**, 105, 311-23	9.3	240
275	Cadmium(II) and zinc(II) adsorption by the aquatic moss Fontinalis antipyretica: effect of temperature, pH and water hardness. *Water Research*, **2004**, 38, 693-9	12.5	209
274	Fenton oxidation of cork cooking wastewater--overall kinetic analysis. *Water Research*, **2003**, 37, 3061-9	12.5	187
273	Selenium contaminated waters: An overview of analytical methods, treatment options and recent advances in sorption methods. *Science of the Total Environment*, **2015**, 521-522, 246-60	10.2	179
272	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, 231-49	2.6	176
271	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	14.7	166
270	Antibiotic resistance of enterococci and related bacteria in an urban wastewater treatment plant. *FEMS Microbiology Ecology*, **2006**, 55, 322-9	4.3	163
269	Methylene blue adsorption by algal biomass based materials: biosorbents characterization and process behaviour. *Journal of Hazardous Materials*, **2007**, 147, 120-32	12.8	162
268	Performance and prospects of different adsorbents for phosphorus uptake and recovery from water. *Chemical Engineering Journal*, **2020**, 381, 122566	14.7	155
267	Photocatalytic reduction of Cr(VI) over TiO2-coated cellulose acetate monolithic structures using solar light. *Applied Catalysis B: Environmental*, **2017**, 203, 18-30	21.8	154
266	Influence of pH, ionic strength and temperature on lead biosorption by Gelidium and agar extraction algal waste. *Process Biochemistry*, **2005**, 40, 3267-3275	4.8	146
265	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	21.8	144
264	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	21.8	143
263	Equilibrium and kinetic modelling of Cd(II) biosorption by algae Gelidium and agar extraction algal waste. *Water Research*, **2006**, 40, 291-302	12.5	127
262	Phenol biodegradation by Pseudomonas putida DSM 548 in a batch reactor. *Biochemical Engineering Journal*, **2000**, 6, 45-49	4.2	125

261	Removal of Cd(II), Zn(II) and Pb(II) from aqueous solutions by brown marine macro algae: kinetic modelling. *Journal of Hazardous Materials*, **2008**, 153, 493-501	12.8	124
260	Coconut-based biosorbents for water treatment--a review of the recent literature. *Advances in Colloid and Interface Science*, **2010**, 160, 1-15	14.3	123
259	Photocatalytic degradation of oxytetracycline using TiO2 under natural and simulated solar radiation. *Solar Energy*, **2011**, 85, 2732-2740	6.8	119
258	Adsorption modelling of textile dyes by sepiolite. *Applied Clay Science*, **2008**, 42, 137-145	5.2	112
257	Immobilization of commercial laccase onto green coconut fiber by adsorption and its application for reactive textile dyes degradation. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 72, 6-12		107
256	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	14.7	101
255	Waste metal hydroxide sludge as adsorbent for a reactive dye. *Journal of Hazardous Materials*, **2008** , 153, 999-1008	12.8	101
254	Use of cork powder and granules for the adsorption of pollutants: a review. *Water Research*, **2012**, 46, 3152-66	12.5	98
253	Tertiary treatment of a municipal wastewater toward pharmaceuticals removal by chemical and electrochemical advanced oxidation processes. *Water Research*, **2016**, 105, 251-263	12.5	92
252	Copper removal by algae Gelidium, agar extraction algal waste and granulated algal waste: kinetics and equilibrium. *Bioresource Technology*, **2008**, 99, 750-62	11	89
251	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	14.7	86
250	Adsorption of cationic and anionic azo dyes on sepiolite clay: Equilibrium and kinetic studies in batch mode. *Journal of Environmental Chemical Engineering*, **2016**, 4, 1473-1483	6.8	86
249	Treatment of a sanitary landfill leachate using combined solar photo-Fenton and biological immobilized biomass reactor at a pilot scale. *Water Research*, **2011**, 45, 2647-58	12.5	84
248	Incorporation of electrochemical advanced oxidation processes in a multistage treatment system for sanitary landfill leachate. *Water Research*, **2015**, 81, 375-87	12.5	82
247	Insights into real cotton-textile dyeing wastewater treatment using solar advanced oxidation processes. *Environmental Science and Pollution Research*, **2014**, 21, 932-45	5.1	81
246	Treatment of textile effluent by chemical (Fenton's Reagent) and biological (sequencing batch reactor) oxidation. *Journal of Hazardous Materials*, **2009**, 172, 1551-9	12.8	81
245	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	14.7	80
244	Trout farm effluents: characterization and impact on the receiving streams. *Environmental Pollution* , **1997**, 95, 379-87	9.3	79

243	Removal of metal ions from a petrochemical wastewater using brown macro-algae as natural cation-exchangers. *Chemical Engineering Journal*, **2016**, 286, 1-15	14.7	78
242	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, 274-83	10.2	78
241	Biodegradation of phenol by Pseudomonas putida DSM 548 in a trickling bed reactor. *Biochemical Engineering Journal*, **2001**, 9, 211-219	4.2	78
240	Landfill leachate treatment by solar-driven AOPs. *Solar Energy*, **2011**, 85, 46-56	6.8	77
239	Treatment of textile wastewaters by solar-driven advanced oxidation processes. *Solar Energy*, **2011**, 85, 1927-1934	6.8	73
238	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	14.7	72
237	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, 4599-613	12.5	72
236	Treatment of a simulated textile wastewater in a sequencing batch reactor (SBR) with addition of a low-cost adsorbent. *Journal of Hazardous Materials*, **2015**, 291, 74-82	12.8	71
235	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, 120-31	7.9	71
234	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	14.7	71
233	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	14.7	71
232	Color removal with natural adsorbents: modeling, simulation and experimental. *Separation and Purification Technology*, **2000**, 20, 129-141	8.3	70
231	Sediments and aquatic mosses as pollution indicators for heavy metals in the Ave river basin (Portugal). *Science of the Total Environment*, **1992**, 114, 7-24	10.2	70
230	Degradation of trimethoprim antibiotic by UVA photoelectro-Fenton process mediated by Fe(III)□arboxylate complexes. *Applied Catalysis B: Environmental*, **2015**, 162, 34-44	21.8	69
229	Optimization of the azo dye Procion Red H-EXL degradation by Fenton's reagent using experimental design. *Journal of Hazardous Materials*, **2009**, 164, 987-94	12.8	67
228	Synthetic textile dyeing wastewater treatment by integration of advanced oxidation and biological processes □Performance analysis with costs reduction. *Journal of Environmental Chemical Engineering*, **2014**, 2, 1027-1039	6.8	66
227	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	14.7	66
226	Fish canning industry wastewater treatment for water reuse □a case study. *Journal of Cleaner Production*, **2015**, 87, 603-612	10.3	65

225	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	14.7	64
224	Scale-up and cost analysis of a photo-Fenton system for sanitary landfill leachate treatment. *Chemical Engineering Journal*, **2016**, 283, 76-88	14.7	62
223	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	14.7	62
222	Treatment of textile dye wastewaters using ferrous sulphate in a chemical coagulation/flocculation process. *Environmental Technology (United Kingdom)*, **2013**, 34, 719-29	2.6	62
221	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	14.7	61
220	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. *Water Research*, **2013**, 47, 6167-86	12.5	61
219	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	14.7	61
218	Arsenic removal from water using iron-coated seaweeds. *Journal of Environmental Management*, **2017**, 192, 224-233	7.9	59
217	Copper desorption from Gelidium algal biomass. *Water Research*, **2007**, 41, 1569-79	12.5	59
216	Seasonal variations of heavy metals in sediments and aquatic mosses from the C□ado river basin (Portugal). *Science of the Total Environment*, **1994**, 142, 143-156	10.2	58
215	Application of statistical experimental methodology to optimize reactive dye decolourization by commercial laccase. *Journal of Hazardous Materials*, **2009**, 162, 1255-60	12.8	57
214	Green coconut fiber: a novel carrier for the immobilization of commercial laccase by covalent attachment for textile dyes decolourization. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 2827-38	4.4	56
213	Remediation of a synthetic textile wastewater from polyester-cotton dyeing combining biological and photochemical oxidation processes. *Separation and Purification Technology*, **2017**, 172, 450-462	8.3	55
212	Electrochemical advanced oxidation processes for sanitary landfill leachate remediation: Evaluation of operational variables. *Applied Catalysis B: Environmental*, **2016**, 182, 161-171	21.8	54
211	Remediation of a winery wastewater combining aerobic biological oxidation and electrochemical advanced oxidation processes. *Water Research*, **2015**, 75, 95-108	12.5	54
210	N-modified TiO 2 photocatalytic activity towards diphenhydramine degradation and Escherichia coli inactivation in aqueous solutions. *Applied Catalysis B: Environmental*, **2015**, 162, 66-74	21.8	54
209	Coupling of acrylic dyeing wastewater treatment by heterogeneous Fenton oxidation in a continuous stirred tank reactor with biological degradation in a sequential batch reactor. *Journal of Environmental Management*, **2016**, 166, 193-203	7.9	53
208	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	10.2	53

207	Photocatalytic activity of TiO2-coated glass raschig rings on the degradation of phenolic derivatives under simulated solar light irradiation. *Chemical Engineering Journal*, **2013**, 224, 32-38	14.7	53
206	Kinetic modelling and simulation of laccase catalyzed degradation of reactive textile dyes. *Bioresource Technology*, **2008**, 99, 4768-74	11	53
205	Solar photocatalytic reduction of Cr(VI) over Fe(III) in the presence of organic sacrificial agents. *Applied Catalysis B: Environmental*, **2016**, 192, 208-219	21.8	52
204	Natural waste materials containing chitin as adsorbents for textile dyestuffs: batch and continuous studies. *Water Research*, **2005**, 39, 4142-52	12.5	49
203	Copper removal by algal biomass: biosorbents characterization and equilibrium modelling. *Journal of Hazardous Materials*, **2009**, 163, 1113-22	12.8	48
202	Chromium and zinc uptake by algae Gelidium and agar extraction algal waste: kinetics and equilibrium. *Journal of Hazardous Materials*, **2007**, 149, 643-9	12.8	48
201	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	5.1	48
200	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	14.7	47
199	Optimization of nickel biosorption by chemically modified brown macroalgae (Pelvetia canaliculata). *Chemical Engineering Journal*, **2012**, 193-194, 256-266	14.7	46
198	Application of biological oxidation and solar driven advanced oxidation processes to remediation of winery wastewater. *Catalysis Today*, **2013**, 209, 201-208	5.3	46
197	Modeling the discoloration of a mixture of reactive textile dyes by commercial laccase. *Bioresource Technology*, **2009**, 100, 1094-9	11	46
196	Inactivation of Bacteria E. coli and photodegradation of humic acids using natural sunlight. *Applied Catalysis B: Environmental*, **2009**, 88, 283-291	21.8	46
195	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, 1173-82	12.8	46
194	Gas phase oxidation of n-decane and PCE by photocatalysis using an annular photoreactor packed with a monolithic catalytic bed coated with P25 and PC500. *Applied Catalysis B: Environmental*, **2015** , 165, 306-315	21.8	45
193	Uptake and release of zinc by aquatic bryophytes (Fontinalis antipyretica L. ex. Hedw.). *Water Research*, **2002**, 36, 5005-12	12.5	45
192	Biofilm reactors: an experimental and modeling study of wastewater denitrification in fluidized-bed reactors of activated carbon particles. *Biotechnology and Bioengineering*, **1992**, 40, 625-33	4.9	45
191	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	4.7	44
190	Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. *Journal of Environmental Management*, **2018**, 223, 215-253	7.9	44

189	Watershed model parameter estimation and uncertainty in data-limited environments. *Environmental Modelling and Software*, **2014**, 51, 84-93	5.2	44
188	A step forward in heterogeneous photocatalysis: Process intensification by using a static mixer as catalyst support. *Chemical Engineering Journal*, **2018**, 343, 597-606	14.7	43
187	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	10.2	42
186	Application of the Nernst-Planck approach to lead ion exchange in Ca-loaded Pelvetia canaliculata. *Water Research*, **2010**, 44, 3946-58	12.5	42
185	Decontamination of cork wastewaters by solar-photo-Fenton process using cork bleaching wastewater as H2O2 source. *Solar Energy*, **2011**, 85, 579-587	6.8	42
184	Separation of an Anionic Surfactant by Nanofiltration. *Environmental Science & Technology*, **1999**, 33, 2758-2764	10.3	42
183	Arsenate and arsenite adsorption onto iron-coated cork granulates. *Science of the Total Environment*, **2018**, 642, 1075-1089	10.2	41
182	An innovative multistage treatment system for sanitary landfill leachate depuration: Studies at pilot-scale. *Science of the Total Environment*, **2017**, 576, 99-117	10.2	41
181	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	14.7	40
180	Textural and Surface Characterization of Cork-Based Sorbents for the Removal of Oil from Water. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16427-16435	3.9	40
179	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	10.3	40
178	Are TiO2-based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. *Applied Catalysis B: Environmental*, **2014**, 147, 988-999	21.8	39
177	Decontamination of an Industrial Cotton Dyeing Wastewater by Chemical and Biological Processes. *Industrial & Engineering Chemistry Research*, **2014**, 53, 2412-2421	3.9	38
176	Sanitary landfill leachate treatment using combined solar photo-Fenton and biological oxidation processes at pre-industrial scale. *Chemical Engineering Journal*, **2013**, 228, 850-866	14.7	38
175	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	14.7	38
174	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	5.3	38
173	Solar treatment of cork boiling and bleaching wastewaters in a pilot plant. *Water Research*, **2009**, 43, 4050-62	12.5	38
172	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	10.3	37

171	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, 3543-57	12.5	37
170	Biosorption of copper by marine algae Gelidium and algal composite material in a packed bed column. *Bioresource Technology*, **2008**, 99, 5830-8	11	37
169	Combination of chemical coagulation, photo-Fenton oxidation and biodegradation for the treatment of vinasse from sugar cane ethanol distillery. *Journal of Cleaner Production*, **2017**, 142, 3634-3644	10.2	35
168	Surface Water Quality Assessment of Lis River Using Multivariate Statistical Methods. *Water, Air, and Soil Pollution*, **2012**, 223, 5549-5561	2.6	35
167	Treatment of sugarcane vinasse by combination of coagulation/flocculation and Fenton's oxidation. *Journal of Environmental Management*, **2016**, 181, 237-248	7.9	34
166	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	14.7	34
165	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	14.7	34
164	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, 833-45	5.1	33
163	Photocatalytic membrane reactor performance towards oxytetracycline removal from synthetic and real matrices: Suspended vs immobilized TiO2-P25. *Chemical Engineering Journal*, **2019**, 378, 122114	14.7	33
162	Optimization and Economic Analysis of Textile Wastewater Treatment by Photo-Fenton Process under Artificial and Simulated Solar Radiation. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13313-13324	3.9	33
161	Optimisation of reactive textile dyes degradation by laccase–mediator system. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 1609-1615	3.5	33
160	Treatment of a pesticide-containing wastewater using combined biological and solar-driven AOPs at pilot scale. *Chemical Engineering Journal*, **2012**, 209, 429-441	14.7	32
159	Photolytic and TiO2-assisted photocatalytic oxidation of the anxiolytic drug lorazepam (Lorenin® pills) under artificial UV light and natural sunlight: A comparative and comprehensive study. *Solar Energy*, **2013**, 87, 219-228	6.8	32
158	Potential rates and environmental controls of denitrification and nitrous oxide production in a temperate urbanized estuary. *Marine Environmental Research*, **2010**, 70, 336-42	3.3	32
157	Equilibrium and kinetic modelling of Pb2+ biosorption by granulated agar extraction algal waste. *Process Biochemistry*, **2005**, 40, 3276-3284	4.8	32
156	Nitrogen Removal from Landfill Leachate by Microalgae. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	32
155	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	14.7	30
154	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	7.9	29

153	Bacteria and fungi inactivation by photocatalysis under UVA irradiation: liquid and gas phase. *Environmental Science and Pollution Research*, **2017**, 24, 6372-6381	5.1	29
152	Viability and release of complexing compounds during accumulation of heavy metals by a brewer's yeast. *Applied Microbiology and Biotechnology*, **2002**, 58, 836-41	5.7	29
151	BIOSORPTION OF ANTIMONY BY BROWN ALGAE S. muticum AND A. nodosum. *Environmental Engineering and Management Journal*, **2015**, 14, 455-463	0.6	29
150	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	14.7	28
149	Solar photocatalytic oxidation of recalcitrant natural metabolic by-products of amoxicillin biodegradation. *Water Research*, **2014**, 65, 307-20	12.5	28
148	Perchloroethylene gas-phase degradation over titania-coated transparent monoliths. *Applied Catalysis B: Environmental*, **2013**, 140-141, 444-456	21.8	28
147	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. *Chemical Engineering Journal*, **2012**, 204-206, 244-257	14.7	28
146	Analysis of trihalomethanes in water and air from indoor swimming pools using HS-SPME/GC/ECD. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2011**, 46, 355-63	2.3	28
145	Photocatalytic oxidation of gaseous perchloroethylene over TiO 2 based paint. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 311, 41-52	4.7	27
144	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	12.8	27
143	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	4.7	26
142	Biosorption of antimony oxyanions by brown seaweeds: Batch and column studies. *Journal of Environmental Chemical Engineering*, **2017**, 5, 3463-3471	6.8	26
141	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	14.7	26
140	Assessment of indoor airborne contamination in a wastewater treatment plant. *Environmental Monitoring and Assessment*, **2013**, 185, 59-72	3.1	26
139	Modeling equilibrium and kinetics of metal uptake by algal biomass in continuous stirred and packed bed adsorbers. *Adsorption*, **2007**, 13, 587-601	2.6	26
138	Consecutive reactions in fluidized-bed biological reactors: Modeling and experimental study of wastewater denitrification. *Chemical Engineering Science*, **1988**, 43, 2715-2728	4.4	26
137	Bentonitic clay as adsorbent for the decolourisation of dyehouse effluents. *Journal of Cleaner Production*, **2016**, 126, 667-676	10.3	26
136	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	10.2	25

135	Strategies to reduce mass and photons transfer limitations in heterogeneous photocatalytic processes: Hexavalent chromium reduction studies. *Journal of Environmental Management*, **2018**, 217, 555-564	7.9	25
134	Water quality modelling of Lis River, Portugal. *Environmental Science and Pollution Research*, **2013**, 20, 508-24	5.1	25
133	Treatment train for mature landfill leachates: Optimization studies. *Science of the Total Environment*, **2019**, 673, 470-479	10.2	24
132	Biodegradability and toxicity assessment of a real textile wastewater effluent treated by an optimized electrocoagulation process. *Environmental Technology (United Kingdom)*, **2015**, 36, 496-506	2.6	24
131	Chromium precipitation from tanning spent liquors using industrial alkaline residues: A comparative study. *Waste Management*, **1998**, 17, 201-209	8.6	24
130	Assessment of solar driven TiO2-assisted photocatalysis efficiency on amoxicillin degradation. *Environmental Science and Pollution Research*, **2014**, 21, 1292-303	5.1	23
129	Sequential decolourization of reactive textile dyes by laccase mediator system. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 442-446	3.5	23
128	Solar photocatalysis of a recalcitrant coloured effluent from a wastewater treatment plant. *Photochemical and Photobiological Sciences*, **2009**, 8, 691-8	4.2	23
127	UPTAKE AND RELEASE KINETICS OF COPPER BY THE AQUATIC MOSS Fontinalis antipyretica. *Water Research*, **1998**, 32, 1305-1313	12.5	23
126	Photo-oxidation of cork manufacturing wastewater. *Chemosphere*, **2004**, 55, 19-26	8.4	23
125	Assessing the influence of oil and grease and salt content on fish canning wastewater biodegradation through respirometric tests. *Journal of Cleaner Production*, **2016**, 127, 343-351	10.3	23
124	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	14.7	22
123	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	14.7	22
122	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	12.5	22
121	Optimization of River Water Quality Surveys by Multivariate Analysis of Physicochemical, Bacteriological and Ecotoxicological Data. *Water Resources Management*, **2014**, 28, 1345-1361	3.7	22
120	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	14.7	22
119	Technical and economic feasibility of polyester dyeing wastewater treatment by coagulation/flocculation and Fenton's oxidation. *Environmental Technology (United Kingdom)*, **2014**, 35, 1307-19	2.6	22
118	Evaluation of solar photo-Fenton parameters on the pre-oxidation of leachates from a sanitary landfill. *Solar Energy*, **2012**, 86, 3301-3315	6.8	22

117	Evaluation of a tannin-based coagulant on the decolorization of synthetic effluents. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103125	6.8	21
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