

Juan Lema

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317
papers

15,305
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65
h-index

108
g-index

320
ext. papers

16,678
ext. citations

6.6
avg, IF

6.75
L-index

#	Paper	IF	Citations
3 ¹⁷	Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant. <i>Water Research</i> , 2004 , 38, 2918-26	12.5	1142
3 ¹⁶	Removal of pharmaceutical and personal care products (PPCPs) under nitrifying and denitrifying conditions. <i>Water Research</i> , 2010 , 44, 3214-24	12.5	355
3 ¹⁵	How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?. <i>Reviews in Environmental Science and Biotechnology</i> , 2008 , 7, 125-138	13.9	313
3 ¹⁴	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge. <i>Water Research</i> , 2007 , 41, 2139-50	12.5	278
3 ¹³	Rutin: A review on extraction, identification and purification methods, biological activities and approaches to enhance its bioavailability. <i>Trends in Food Science and Technology</i> , 2017 , 67, 220-235	15.3	241
3 ¹²	Monitoring and diagnosis of energy consumption in wastewater treatment plants. A state of the art and proposals for improvement. <i>Applied Energy</i> , 2016 , 179, 1251-1268	10.7	232
3 ¹¹	Determination of the solid-water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge. <i>Water Research</i> , 2008 , 42, 287-95	12.5	232
3 ¹⁰	Methanogenic and non-methanogenic activity tests. Theoretical basis and experimental set up. <i>Water Research</i> , 1993 , 27, 1361-1376	12.5	219
3 ⁰⁹	Pre-treatment of hospital wastewater by coagulation-flocculation and flotation. <i>Bioresource Technology</i> , 2009 , 100, 2138-46	11	212
3 ⁰⁸	Microbial management of anaerobic digestion: exploiting the microbiome-functionality nexus. <i>Current Opinion in Biotechnology</i> , 2015 , 33, 103-11	11.4	210
3 ⁰⁷	A methodology for optimising feed composition for anaerobic co-digestion of agro-industrial wastes. <i>Bioresource Technology</i> , 2010 , 101, 1153-8	11	205
3 ⁰⁶	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. <i>Water Research</i> , 2005 , 39, 4790-6	12.5	200
3 ⁰⁵	Sodium inhibition in the anaerobic digestion process: Antagonism and adaptation phenomena. <i>Enzyme and Microbial Technology</i> , 1995 , 17, 180-188	3.8	191
3 ⁰⁴	Influence of nitrifying conditions on the biodegradation and sorption of emerging micropollutants. <i>Water Research</i> , 2012 , 46, 5434-44	12.5	188
3 ⁰³	Influence of the content in fats and proteins on the anaerobic biodegradability of dairy wastewaters. <i>Bioresource Technology</i> , 2000 , 74, 231-239	11	188
3 ⁰²	Understanding the removal mechanisms of PPCPs and the influence of main technological parameters in anaerobic UASB and aerobic CAS reactors. <i>Journal of Hazardous Materials</i> , 2014 , 278, 506-13	12.8	178
3 ⁰¹	Modeling product formation in anaerobic mixed culture fermentations. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 592-606	4.9	171

300	Laccase-catalyzed degradation of anti-inflammatories and estrogens. <i>Biochemical Engineering Journal</i> , 2010 , 51, 124-131	4.2	164
299	Relationship between microbial activity and microbial community structure in six full-scale anaerobic digesters. <i>Microbiological Research</i> , 2012 , 167, 581-9	5.3	157
298	The effect and fate of antibiotics during the anaerobic digestion of pig manure. <i>Bioresource Technology</i> , 2010 , 101, 8581-6	11	149
297	Evaluation of extracts from Gevuina avellana hulls as antioxidants. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 3890-7	5.7	144
296	Enzymatic pretreatment to enhance oil extraction from fruits and oilseeds: a review. <i>Food Chemistry</i> , 1994 , 49, 271-286	8.5	144
295	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage. <i>Chemosphere</i> , 2008 , 72, 1118-23	8.4	142
294	Enzymatic degradation of anthracene, dibenzothiophene and pyrene by manganese peroxidase in media containing acetone. <i>Chemosphere</i> , 2006 , 64, 408-14	8.4	139
293	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage. <i>Desalination</i> , 2008 , 221, 511-517	10.3	133
292	Nitrification in saline wastewater with high ammonia concentration in an activated sludge unit. <i>Water Research</i> , 2002 , 36, 2555-60	12.5	124
291	Anaerobic hydrolysis and acidogenesis of wastewaters from food industries with high content of organic solids and protein. <i>Water Research</i> , 1999 , 33, 3281-3290	12.5	117
290	Relationship between phenol degradation efficiency and microbial community structure in an anaerobic SBR. <i>Water Research</i> , 2013 , 47, 6739-49	12.5	114
289	Degradation of selected pharmaceutical and personal care products (PPCPs) by white-rot fungi. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 1839-1846	4.4	108
288	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content. <i>Bioresource Technology</i> , 1995 , 54, 269-278	11	108
287	Is anaerobic digestion effective for the removal of organic micropollutants and biological activities from sewage sludge?. <i>Water Research</i> , 2016 , 102, 211-220	12.5	107
286	Environmental assessment of anaerobically digested sludge reuse in agriculture: potential impacts of emerging micropollutants. <i>Water Research</i> , 2010 , 44, 3225-33	12.5	107
285	Influence of ozone pre-treatment on sludge anaerobic digestion: removal of pharmaceutical and personal care products. <i>Chemosphere</i> , 2007 , 67, 1444-52	8.4	102
284	Understanding the sorption and biotransformation of organic micropollutants in innovative biological wastewater treatment technologies. <i>Science of the Total Environment</i> , 2018 , 615, 297-306	10.2	99
283	Removal of persistent pharmaceutical micropollutants from sewage by addition of PAC in a sequential membrane bioreactor. <i>Water Research</i> , 2011 , 45, 5323-33	12.5	99

282	Combined cross-linked enzyme aggregates from versatile peroxidase and glucose oxidase: production, partial characterization and application for the elimination of endocrine disruptors. <i>Bioresource Technology</i> , 2011 , 102, 6593-9	11	98
281	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions. <i>Water Research</i> , 2005 , 39, 771-8	12.5	98
280	Key microbial communities steering the functioning of anaerobic digesters during hydraulic and organic overloading shocks. <i>Bioresource Technology</i> , 2015 , 197, 208-16	11	92
279	Life Cycle Assessment of electricity production in Italy from anaerobic co-digestion of pig slurry and energy crops. <i>Renewable Energy</i> , 2014 , 68, 625-635	8.1	92
278	Biotransformation of pharmaceuticals under nitrification, nitrataion and heterotrophic conditions. <i>Science of the Total Environment</i> , 2016 , 541, 1439-1447	10.2	88
277	Degradation of volatile fatty acids by differently enriched methanogenic cultures: Kinetics and inhibition. <i>Water Research</i> , 1995 , 29, 505-509	12.5	86
276	Fungal pretreatment of agricultural residues for bioethanol production. <i>Industrial Crops and Products</i> , 2016 , 89, 486-492	5.9	85
275	Biotransformation of three pharmaceutical active compounds by the fungus <i>Phanerochaete chrysosporium</i> in a fed batch stirred reactor under air and oxygen supply. <i>Biodegradation</i> , 2012 , 23, 145-156	4.1	85
274	Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic bioprocesses. <i>Energy and Environmental Science</i> , 2013 , 6, 3780	35.4	84
273	A packed-bed fungal bioreactor for the continuous decolourisation of azo-dyes (Orange II). <i>Journal of Biotechnology</i> , 2001 , 89, 99-106	3.7	83
272	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. <i>Water Research</i> , 2006 , 40, 871-80	12.5	82
271	Comparison between the conventional anaerobic digestion of sewage sludge and its combination with a chemical or thermal pre-treatment concerning the removal of pharmaceuticals and personal care products. <i>Water Science and Technology</i> , 2006 , 53, 109-17	2.2	82
270	Immobilisation of laccase on Eupergit supports and its application for the removal of endocrine disrupting chemicals in a packed-bed reactor. <i>Biodegradation</i> , 2012 , 23, 373-86	4.1	81
269	Oxidation of pharmaceutically active compounds by a ligninolytic fungal peroxidase. <i>Biodegradation</i> , 2011 , 22, 539-50	4.1	81
268	Mechanism of enzymatic degradation of the azo dye Orange II determined by ex situ ¹ H nuclear magnetic resonance and electrospray ionization-ion trap mass spectrometry. <i>Analytical Biochemistry</i> , 2004 , 335, 135-49	3.1	81
267	Oxidative degradation of azo dyes by manganese peroxidase under optimized conditions. <i>Biotechnology Progress</i> , 2003 , 19, 325-31	2.8	81
266	Enzymatic membrane reactors for biodegradation of recalcitrant compounds. Application to dye decolourisation. <i>Journal of Biotechnology</i> , 2002 , 99, 249-57	3.7	81
265	Calculation methods to perform mass balances of micropollutants in sewage treatment plants. application to pharmaceutical and personal care products (PPCPs). <i>Environmental Science & Technology</i> , 2007 , 41, 884-90	10.3	80

264	Anaerobic degradation of hexachlorocyclohexane isomers in liquid and soil slurry systems. <i>Chemosphere</i> , 2005 , 61, 528-36	8.4	80
263	Removal of estrogenic compounds from filtered secondary wastewater effluent in a continuous enzymatic membrane reactor. Identification of biotransformation products. <i>Environmental Science & Technology</i> , 2013 , 47, 4536-43	10.3	79
262	Mass balance of pharmaceutical and personal care products in a pilot-scale single-sludge system: influence of T, SRT and recirculation ratio. <i>Chemosphere</i> , 2012 , 89, 164-71	8.4	76
261	Different fungal manganese-oxidizing peroxidases: a comparison between Bjerkandera sp. and Phanerochaete chrysosporium. <i>Journal of Biotechnology</i> , 2000 , 77, 235-45	3.7	75
260	In vitro degradation of a polymeric dye (Poly R-478) by manganese peroxidase. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 362-8	4.9	74
259	Biodegradation kinetic constants and sorption coefficients of micropollutants in membrane bioreactors. <i>Biodegradation</i> , 2013 , 24, 165-77	4.1	72
258	Evaluation of different fungal strains in the decolourisation of synthetic dyes. <i>Biotechnology Letters</i> , 2000 , 22, 1499-1503	3	72
257	Nitrification at high ammonia loading rates in an activated sludge unit. <i>Bioresource Technology</i> , 1999 , 68, 141-148	11	71
256	Biobleaching of oxygen delignified kraft pulp by several white rot fungal strains. <i>Journal of Biotechnology</i> , 1997 , 53, 237-251	3.7	69
255	Anaerobic treatment of azo dye Acid Orange 7 under batch conditions. <i>Enzyme and Microbial Technology</i> , 2005 , 36, 264-272	3.8	69
254	Degradation of estrogens by laccase from Myceliophthora thermophila in fed-batch and enzymatic membrane reactors. <i>Journal of Hazardous Materials</i> , 2012 , 213-214, 175-83	12.8	67
253	Removal of PPCPs from the sludge supernatant in a one stage nitrification/anammox process. <i>Water Research</i> , 2015 , 68, 701-9	12.5	65
252	Simultaneous methanogenesis and denitrification of pretreated effluents from a fish canning industry. <i>Water Research</i> , 2001 , 35, 411-8	12.5	65
251	Dye decolorization by manganese peroxidase in an enzymatic membrane bioreactor. <i>Biotechnology Progress</i> , 2004 , 20, 74-81	2.8	64
250	Antioxidant activity of extracts from Gevuina avellana and Rosa rubiginosa defatted seeds. <i>Food Research International</i> , 2001 , 34, 103-109	7	64
249	Enzyme-assisted hexane extraction of soya bean oil. <i>Food Chemistry</i> , 1995 , 54, 223-231	8.5	64
248	A UASB reactor coupled to a hybrid aerobic MBR as innovative plant configuration to enhance the removal of organic micropollutants. <i>Chemosphere</i> , 2016 , 144, 452-8	8.4	63
247	Influence of C:N ratio on the start-up of up-flow anaerobic filter reactors. <i>Water Research</i> , 2000 , 34, 2614-2619	19.62	62

246	Bioremediation of HCH present in soil by the white-rot fungus <i>Bjerkandera adusta</i> in a slurry batch bioreactor. <i>International Biodeterioration and Biodegradation</i> , 2007 , 60, 319-326	4.8	59
245	Biodegradation of polycyclic aromatic hydrocarbons in forest and salt marsh soils by white-rot fungi. <i>International Biodeterioration and Biodegradation</i> , 2006 , 58, 15-21	4.8	59
244	Complete degradation of anthracene by Manganese Peroxidase in organic solvent mixtures. <i>Enzyme and Microbial Technology</i> , 2005 , 37, 365-372	3.8	58
243	Modelling cometabolic biotransformation of organic micropollutants in nitrifying reactors. <i>Water Research</i> , 2014 , 65, 371-83	12.5	57
242	Understanding the fate of organic micropollutants in sand and granular activated carbon biofiltration systems. <i>Science of the Total Environment</i> , 2016 , 551-552, 640-8	10.2	57
241	Advanced technologies for water treatment and reuse. <i>AIChE Journal</i> , 2015 , 61, 3146-3158	3.6	56
240	Biodegradation of a polymeric dye in a pulsed bed bioreactor by immobilised phanerochaete chrysosporium. <i>Water Research</i> , 2002 , 36, 1896-901	12.5	56
239	Semi-micro C.O.D. determination method for high-salinity wastewater. <i>Environmental Technology Letters</i> , 1989 , 10, 541-548		56
238	Optimisation of the biological pretreatment of wheat straw with white-rot fungi for ethanol production. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 1251-60	3.7	54
237	Biodegradation of dibenzothiophene, fluoranthene, pyrene and chrysene in a soil slurry reactor by the white-rot fungus <i>Bjerkandera</i> sp. BOS55. <i>Process Biochemistry</i> , 2007 , 42, 641-648	4.8	54
236	Role of methanogenesis on the biotransformation of organic micropollutants during anaerobic digestion. <i>Science of the Total Environment</i> , 2018 , 622-623, 459-466	10.2	53
235	Treatment of saline wastewaters from fish meal factories in an anaerobic filter under extreme ammonia concentrations. <i>Bioresource Technology</i> , 1997 , 61, 69-78	11	53
234	Immobilization of laccase by encapsulation in a sol-gel matrix and its characterization and use for the removal of estrogens. <i>Biotechnology Progress</i> , 2011 , 27, 1570-9	2.8	52
233	Enzymatic saccharification of alkali-treated sunflower hulls. <i>Bioresource Technology</i> , 1994 , 49, 53-59	11	52
232	Comparison of several methods for the separation of poly(3-hydroxybutyrate) from <i>Cupriavidus necator</i> H16 cultures. <i>Biochemical Engineering Journal</i> , 2015 , 93, 250-259	4.2	51
231	Optimization of solvent extraction of antioxidants from <i>Eucalyptus globulus</i> leaves by response surface methodology: Characterization and assessment of their bioactive properties. <i>Industrial Crops and Products</i> , 2017 , 108, 649-659	5.9	49
230	Optimization of the enzymatic treatment during aqueous oil extraction from sunflower seeds. <i>Food Chemistry</i> , 1998 , 61, 467-474	8.5	49
229	Trials of bioremediation on a beach affected by the heavy oil spill of the Prestige. <i>Journal of Hazardous Materials</i> , 2006 , 137, 1523-31	12.8	49

228	Biotransformation of organic micropollutants by anaerobic sludge enzymes. <i>Water Research</i> , 2019 , 152, 202-214	12.5	49
227	Cometabolic Enzymatic Transformation of Organic Micropollutants under Methanogenic Conditions. <i>Environmental Science & Technology</i> , 2017 , 51, 2963-2971	10.3	48
226	Outlining microbial community dynamics during temperature drop and subsequent recovery period in anaerobic co-digestion systems. <i>Journal of Biotechnology</i> , 2014 , 192 Pt A, 179-86	3.7	48
225	Metabolic energy-based modelling explains product yielding in anaerobic mixed culture fermentations. <i>PLoS ONE</i> , 2015 , 10, e0126739	3.7	48
224	Aqueous processing of sunflower kernels with enzymatic technology. <i>Food Chemistry</i> , 1995 , 53, 427-434	8.5	48
223	Treatment of seafood-processing wastewaters in mesophilic and thermophilic anaerobic filters. <i>Water Environment Research</i> , 1995 , 67, 33-45	2.8	48
222	Cell immobilization: Application to alcohol production. <i>Enzyme and Microbial Technology</i> , 1987 , 9, 642-651	3.8	48
221	On the use of a high-redox potential laccase as an alternative for the transformation of non-steroidal anti-inflammatory drugs (NSAIDs). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 97, 233-242		47
220	Protein recovery during the overall treatment of wastewaters from fish-meal factories. <i>Bioresource Technology</i> , 1998 , 63, 221-229	11	47
219	Evaluation of biodiesel as bioremediation agent for the treatment of the shore affected by the heavy oil spill of the Prestige. <i>Journal of Hazardous Materials</i> , 2007 , 147, 914-22	12.8	46
218	A new device for measurement and control of gas production by bench scale anaerobic digesters. <i>Water Research</i> , 1990 , 24, 1551-1554	12.5	45
217	Enhanced methane production from pig manure anaerobic digestion using fish and biodiesel wastes as co-substrates. <i>Bioresource Technology</i> , 2012 , 123, 507-13	11	44
216	Energy-based models for environmental biotechnology. <i>Trends in Biotechnology</i> , 2008 , 26, 366-74	15.1	44
215	Operation of stirred tank reactors (STRs) and fixed-bed reactors (FBRs) with free and immobilized <i>Phanerochaete chrysosporium</i> for the continuous removal of pharmaceutical compounds. <i>Biochemical Engineering Journal</i> , 2012 , 66, 38-45	4.2	43
214	Control of pellet morphology of filamentous fungi in fluidized bed bioreactors by means of a pulsing flow. Application to <i>Aspergillus niger</i> and <i>Phanerochaete chrysosporium</i> . <i>Enzyme and Microbial Technology</i> , 1996 , 19, 261-6	3.8	43
213	Biodegradability and toxicity in the anaerobic treatment of fish canning wastewaters. <i>Environmental Technology (United Kingdom)</i> , 1991 , 12, 669-677	2.6	43
212	Presence does not imply activity: DNA and RNA patterns differ in response to salt perturbation in anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2016 , 9, 244	7.8	43
211	Microbial catabolic activities are naturally selected by metabolic energy harvest rate. <i>ISME Journal</i> , 2015 , 9, 2630-41	11.9	42

210	Comparison of PPCPs removal on a parallel-operated MBR and AS system and evaluation of effluent post-treatment on vertical flow reed beds. <i>Water Science and Technology</i> , 2011 , 63, 2411-7	2.2	42
209	Review: Anaerobic treatment of municipal sanitary landfill leachates: the problem of refractory and toxic components. <i>World Journal of Microbiology and Biotechnology</i> , 1998 , 14, 309-320	4.4	42
208	Iron removal from kaolin. Comparison between <i>in situ</i> and two-stage bioleaching processes. <i>Hydrometallurgy</i> , 2003 , 68, 97-105	4	42
207	Strategies for the continuous production of ligninolytic enzymes in fixed and fluidised bed bioreactors. <i>Journal of Biotechnology</i> , 1998 , 66, 27-39	3.7	42
206	Enzymatic technologies for remediation of hydrophobic organic pollutants in soil. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8815-29	5.7	41
205	Assessing the use of nanoimmobilized laccases to remove micropollutants from wastewater. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 3217-28	5.1	41
204	Simultaneous urea hydrolysis, formaldehyde removal and denitrification in a multifed upflow filter under anoxic and anaerobic conditions. <i>Water Research</i> , 2001 , 35, 691-8	12.5	41
203	Biodegradation of Pentachlorophenol in Soil Slurry Cultures by <i>Bjerkandera adusta</i> and <i>Anthracyllum discolor</i> . <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6744-6751	3.9	40
202	Variable stoichiometry with thermodynamic control in ADM1. <i>Water Science and Technology</i> , 2006 , 54, 101-10	2.2	40
201	Diagnosis of acidification states in an anaerobic wastewater treatment plant using a fuzzy-based expert system. <i>Control Engineering Practice</i> , 2004 , 12, 59-64	3.9	40
200	Rule-based diagnosis and supervision of a pilot-scale wastewater treatment plant using fuzzy logic techniques. <i>Expert Systems With Applications</i> , 2002 , 22, 11-20	7.8	40
199	Enzymic pre-treatment of Guevina avellana mol oil extraction by pressing. <i>Process Biochemistry</i> , 2003 , 39, 51-57	4.8	40
198	Continuous anaerobic treatment of wastewaters containing formaldehyde and urea. <i>Bioresource Technology</i> , 1999 , 70, 283-291	11	40
197	Why are organic micropollutants not fully biotransformed? A mechanistic modelling approach to anaerobic systems. <i>Water Research</i> , 2018 , 142, 115-128	12.5	40
196	Organic overloading affects the microbial interactions during anaerobic digestion in sewage sludge reactors. <i>Chemosphere</i> , 2019 , 222, 323-332	8.4	39
195	Role of exopolymeric protein on the settleability of nitrifying sludges. <i>Bioresource Technology</i> , 2004 , 94, 43-8	11	39
194	Kinetic modelling of anaerobic hydrolysis of solid wastes, including disintegration processes. <i>Waste Management</i> , 2015 , 35, 96-104	8.6	38
193	Improving the catalytic performance of laccase using a novel continuous-flow microreactor. <i>Chemical Engineering Journal</i> , 2013 , 223, 497-506	14.7	38

192	Influence of Different Pretreatments on Anaerobically Digested Sludge Characteristics: Suitability for Final Disposal. <i>Water, Air, and Soil Pollution</i> , 2009 , 199, 311-321	2.6	38
191	Application of a combined fungal and diluted acid pretreatment on olive tree biomass. <i>Industrial Crops and Products</i> , 2018 , 121, 10-17	5.9	37
190	Continuous operation of a fluidized bed reactor for the removal of estrogens by immobilized laccase on Eupergit supports. <i>Journal of Biotechnology</i> , 2012 , 162, 404-6	3.7	37
189	Covalent immobilisation of manganese peroxidases (MnP) from <i>Phanerochaete chrysosporium</i> and <i>Bjerkandera</i> sp. BOS55. <i>Enzyme and Microbial Technology</i> , 2003 , 32, 769-775	3.8	37
188	Oil extractability from enzymatically treated soybean and sunflower: range of operational variables. <i>Food Chemistry</i> , 1993 , 46, 277-284	8.5	37
187	Enhanced performance of sulfate reducing bacteria based biocathode using stainless steel mesh on activated carbon fabric electrode. <i>Bioresource Technology</i> , 2013 , 150, 172-80	11	36
186	Effect of surfactants on the soil desorption of hexachlorocyclohexane (HCH) isomers and their anaerobic biodegradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 1005-1015	3.5	36
185	Assessing the feasibility of two hybrid MBR systems using PAC for removing macro and micropollutants. <i>Journal of Environmental Management</i> , 2017 , 203, 831-837	7.9	35
184	Coupled BAS and anoxic USB system to remove urea and formaldehyde from wastewater. <i>Water Research</i> , 2003 , 37, 3445-51	12.5	34
183	Assessing anaerobic co-digestion of pig manure with agroindustrial wastes: the link between environmental impacts and operational parameters. <i>Science of the Total Environment</i> , 2014 , 497-498, 475-483	10.2	33
182	Anaerobic biodegradability and toxicity of wastewaters from chlorine and total chlorine-free bleaching of eucalyptus kraft pulps. <i>Water Research</i> , 1997 , 31, 2487-2494	12.5	33
181	An expert system for monitoring and diagnosis of anaerobic wastewater treatment plants. <i>Water Research</i> , 2002 , 36, 2656-66	12.5	33
180	Manganese Removal from Spiked Kaolinitic Soil and Sludge by Electromigration. <i>Separation Science and Technology</i> , 1999 , 34, 3227-3241	2.5	32
179	The fate of SARS-CoV-2 in WWTPs points out the sludge line as a suitable spot for monitoring		32
178	The potential of the innovative SeMPAC process for enhancing the removal of recalcitrant organic micropollutants. <i>Journal of Hazardous Materials</i> , 2016 , 308, 29-36	12.8	30
177	Comprehensive comparison of chemically enhanced primary treatment and high-rate activated sludge in novel wastewater treatment plant configurations. <i>Water Research</i> , 2020 , 169, 115258	12.5	30
176	Blending based optimisation and pretreatment strategies to enhance anaerobic digestion of poultry manure. <i>Waste Management</i> , 2018 , 71, 521-531	8.6	30
175	Electron bifurcation mechanism and homoacetogenesis explain products yields in mixed culture anaerobic fermentations. <i>Water Research</i> , 2018 , 141, 349-356	12.5	29

174	Influence of transitional states on the microbial ecology of anaerobic digesters treating solid wastes. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2015-27	5.7	29
173	Generalised modelling approach for anaerobic co-digestion of fermentable substrates. <i>Bioresource Technology</i> , 2013 , 147, 525-533	11	29
172	Selection of variables for on-line monitoring, diagnosis, and control of anaerobic digestion processes. <i>Water Science and Technology</i> , 2009 , 60, 615-22	2.2	29
171	Biodegradation of formaldehyde under anaerobic conditions. <i>Enzyme and Microbial Technology</i> , 1999 , 24, 255-262	3.8	29
170	Production of lignin peroxidase by Phanerochaete chrysosporium in a packed bed bioreactor operated in semi-continuous mode. <i>Journal of Biotechnology</i> , 1995 , 42, 247-253	3.7	29
169	Solvent screening methodology for in situ ABE extractive fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5915-24	5.7	28
168	Fuzzy-Based Control of an Anaerobic Reactor Treating Wastewaters Containing Ethanol and Carbohydrates. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6707-6715	3.9	28
167	A comparison of two techniques (adsorption and entrapment) for the immobilization of <i>Aspergillus niger</i> in polyurethane foam. <i>Biotechnology Letters</i> , 1994 , 8, 389-394		28
166	Risk assessment of persistent pharmaceuticals in biosolids: Dealing with uncertainty. <i>Journal of Hazardous Materials</i> , 2016 , 302, 72-81	12.8	27
165	Potentiality of a ceramic membrane reactor for the laccase-catalyzed removal of bisphenol A from secondary effluents. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 9299-308	5.7	27
164	Operation of a two-phase partitioning bioreactor for the oxidation of anthracene by the enzyme manganese peroxidase. <i>Chemosphere</i> , 2007 , 66, 1744-51	8.4	27
163	Optimisation of substrate blends in anaerobic co-digestion using adaptive linear programming. <i>Bioresource Technology</i> , 2014 , 173, 159-167	11	26
162	Methanogenic degradation of p-cresol in batch and in continuous UASB reactors. <i>Water Research</i> , 1997 , 31, 1549-1554	12.5	26
161	Use of cheese whey as a substrate to produce manganese peroxidase by <i>Bjerkandera sp</i> BOS55. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1999 , 23, 86-90	4.2	26
160	Simultaneous biodegradation of p-cresol and phenol by the basidiomycete <i>Phanerochaete chrysosporium</i> . <i>Journal of Industrial Microbiology</i> , 1994 , 13, 311-4		26
159	Microbiome response to controlled shifts in ammonium and LCFA levels in co-digestion systems. <i>Journal of Biotechnology</i> , 2016 , 220, 35-44	3.7	26
158	Influence of the employment of adsorption and coprecipitation agents for the removal of PPCPs in conventional activated sludge (CAS) systems. <i>Water Science and Technology</i> , 2010 , 62, 728-35	2.2	25
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