Juan Lema

List of Publications by Year in descending order

316 papers	18,552 citations	10986 71 h-index	18647 119 g-index
321 all docs	321 docs citations	321 times ranked	15350 citing authors

#	Article	IF	Citations
1	Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant. Water Research, 2004, 38, 2918-2926.	11.3	1,277
2	Removal of Pharmaceutical and Personal Care Products (PPCPs) under nitrifying and denitrifying conditions. Water Research, 2010, 44, 3214-3224.	11.3	406
3	Rutin: A review on extraction, identification and purification methods, biological activities and approaches to enhance its bioavailability. Trends in Food Science and Technology, 2017, 67, 220-235.	15.1	392
4	How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?. Reviews in Environmental Science and Biotechnology, 2008, 7, 125-138.	8.1	365
5	Monitoring and diagnosis of energy consumption in wastewater treatment plants. A state of the art and proposals for improvement. Applied Energy, 2016, 179, 1251-1268.	10.1	333
6	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge. Water Research, 2007, 41, 2139-2150.	11.3	332
7	Microbial management of anaerobic digestion: exploiting the microbiome-functionality nexus. Current Opinion in Biotechnology, 2015, 33, 103-111.	6.6	268
8	Determination of the solidâ€“water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge. Water Research, 2008, 42, 287-295.	11.3	265
9	Pre-treatment of hospital wastewater by coagulationâ€“flocculation and flotation. Bioresource Technology, 2009, 100, 2138-2146.	9.6	264
10	Methanogenic and non-methanogenic activity tests. Theoretical basis and experimental set up. Water Research, 1993, 27, 1361-1376.	11.3	250
11	A methodology for optimising feed composition for anaerobic co-digestion of agro-industrial wastes. Bioresource Technology, 2010, 101, 1153-1158.	9.6	238
12	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. Water Research, 2005, 39, 4790-4796.	11.3	229
13	Influence of nitrifying conditions on the biodegradation andÂsorption of emerging micropollutants. Water Research, 2012, 46, 5434-5444.	11.3	225
14	Understanding the removal mechanisms of PPCPs and the influence of main technological parameters in anaerobic UASB and aerobic CAS reactors. Journal of Hazardous Materials, 2014, 278, 506-513.	12.4	224
15	Influence of the content in fats and proteins on the anaerobic biodegradability of dairy wastewaters. Bioresource Technology, 2000, 74, 231-239.	9.6	223
16	Sodium inhibition in the anaerobic digestion process: Antagonism and adaptation phenomena. Enzyme and Microbial Technology, 1995, 17, 180-188.	3.2	221
17	Modeling product formation in anaerobic mixed culture fermentations. Biotechnology and Bioengineering, 2006, 93, 592-606.	3.3	196
18	Relationship between microbial activity and microbial community structure in six full-scale anaerobic digesters. Microbiological Research, 2012, 167, 581-589.	5.3	186

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19	Laccase-catalyzed degradation of anti-inflammatories and estrogens. Biochemical Engineering Journal, 2010, 51, 124-131.	3.6	185
20	The effect and fate of antibiotics during the anaerobic digestion of pig manure. Bioresource Technology, 2010, 101, 8581-8586.	9.6	182
21	Enzymatic pretreatment to enhance oil extraction from fruits and oilseeds: a review. Food Chemistry, 1994, 49, 271-286.	8.2	179
22	Evaluation of Extracts fromGevuina avellanaHulls as Antioxidants. Journal of Agricultural and Food Chemistry, 2000, 48, 3890-3897.	5.2	165
23	Enzymatic degradation of anthracene, dibenzothiophene and pyrene by manganese peroxidase in media containing acetone. Chemosphere, 2006, 64, 408-414.	8.2	154
24	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage. Chemosphere, 2008, 72, 1118-1123.	8.2	154
25	Nitrification in saline wastewater with high ammonia concentration in an activated sludge unit. Water Research, 2002, 36, 2555-2560.	11.3	149
26	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage. Desalination, 2008, 221, 511-517.	8.2	147
27	Understanding the sorption and biotransformation of organic micropollutants in innovative biological wastewater treatment technologies. Science of the Total Environment, 2018, 615, 297-306.	8.0	146
28	Is anaerobic digestion effective for the removal of organic micropollutants and biological activities from sewage sludge?. Water Research, 2016, 102, 211-220.	11.3	140
29	Degradation of selected pharmaceutical and personal care products (PPCPs) by white-rot fungi. World Journal of Microbiology and Biotechnology, 2011, 27, 1839-1846.	3.6	136
30	Relationship between phenol degradation efficiency and microbial community structure in an anaerobic SBR. Water Research, 2013, 47, 6739-6749.	11.3	133
31	Anaerobic hydrolysis and acidogenesis of wastewaters from food industries with high content of organic solids and protein. Water Research, 1999, 33, 3281-3290.	11.3	128
32	Biotransformation of pharmaceuticals under nitrification, nitratation and heterotrophic conditions. Science of the Total Environment, 2016, 541, 1439-1447.	8.0	125
33	Environmental assessment of anaerobically digested sludge reuse in agriculture: Potential impacts of emerging micropollutants. Water Research, 2010, 44, 3225-3233.	11.3	121
34	Removal of persistent pharmaceutical micropollutants from sewage by addition of PAC in a sequential membrane bioreactor. Water Research, 2011, 45, 5323-5333.	11.3	119
35	Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products. Chemosphere, 2007, 67, 1444-1452.	8.2	117
36	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content. Bioresource Technology, 1995, 54, 269-278.	9.6	116

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37	Key microbial communities steering the functioning of anaerobic digesters during hydraulic and organic overloading shocks. Bioresource Technology, 2015, 197, 208-216.	9.6	114
38	Life Cycle Assessment of electricity production in Italy from anaerobic co-digestion of pig slurry and energy crops. Renewable Energy, 2014, 68, 625-635.	8.9	109
39	Fungal pretreatment of agricultural residues for bioethanol production. Industrial Crops and Products, 2016, 89, 486-492.	5.2	108
40	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions. Water Research, 2005, 39, 771-778.	11.3	107
41	Combined cross-linked enzyme aggregates from versatile peroxidase and glucose oxidase: Production, partial characterization and application for the elimination of endocrine disruptors. Bioresource Technology, 2011, 102, 6593-6599.	9.6	106
42	Removal of Estrogenic Compounds from Filtered Secondary Wastewater Effluent in a Continuous Enzymatic Membrane Reactor. Identification of Biotransformation Products. Environmental Science & Technology, 2013, 47, 4536-4543.	10.0	105
43	Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic bioprocesses. Energy and Environmental Science, 2013, 6, 3780.	30.8	104
44	Biotransformation of three pharmaceutical active compounds by the fungus Phanerochaete chrysosporium in a fed batch stirred reactor under air and oxygen supply. Biodegradation, 2012, 23, 145-156.	3.0	103
45	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. Water Science and Technology, 2006, 53, 109-117.	2.5	98
46	Oxidation of pharmaceutically active compounds by a ligninolytic fungal peroxidase. Biodegradation, 2011, 22, 539-550.	3.0	97
47	Degradation of volatile fatty acids by differently enriched methanogenic cultures: Kinetics and inhibition. Water Research, 1995, 29, 505-509.	11.3	96
48	A packed-bed fungal bioreactor for the continuous decolourisation of azo-dyes (Orange II). Journal of Biotechnology, 2001, 89, 99-106.	3.8	95
49	Anaerobic degradation of hexachlorocyclohexane isomers in liquid and soil slurry systems. Chemosphere, 2005, 61, 528-536.	8.2	92
50	Enzymatic membrane reactors for biodegradation of recalcitrant compounds. Application to dye decolourisation. Journal of Biotechnology, 2002, 99, 249-257.	3.8	90
51	Oxidative Degradation of Azo Dyes by Manganese Peroxidase under Optimized Conditions. Biotechnology Progress, 2003, 19, 325-331.	2.6	90
52	Mechanism of enzymatic degradation of the azo dye Orange II determined by ex situ 1H nuclear magnetic resonance and electrospray ionization-ion trap mass spectrometry. Analytical Biochemistry, 2004, 335, 135-149.	2.4	90
53	Evaluation of different fungal strains in the decolourisation of synthetic dyes. Biotechnology Letters, 2000, 22, 1499-1503.	2.2	89
54	Immobilisation of laccase on Eupergit supports and its application for the removal of endocrine disrupting chemicals in a packed-bed reactor. Biodegradation, 2012, 23, 373-386.	3.0	89

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55	Mass balance of pharmaceutical and personal care products in a pilot-scale single-sludge system: Influence of T, SRT and recirculation ratio. Chemosphere, 2012, 89, 164-171.	8.2	89
56	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. Water Research, 2006, 40, 871-880.	11.3	88
57	Calculation Methods to Perform Mass Balances of Micropollutants in Sewage Treatment Plants. Application to Pharmaceutical and Personal Care Products (PPCPs). Environmental Science & Technology, 2007, 41, 884-890.	10.0	88
58	Different fungal manganese-oxidizing peroxidases: a comparison between Bjerkandera sp. and Phanerochaete chrysosporium. Journal of Biotechnology, 2000, 77, 235-245.	3.8	87
59	Nitrification at high ammonia loading rates in an activated sludge unit. Bioresource Technology, 1999, 68, 141-148.	9.6	82
60	Biodegradation kinetic constants and sorption coefficients of micropollutants in membrane bioreactors. Biodegradation, 2013, 24, 165-177.	3.0	82
61	Presence does not imply activity: DNA and RNA patterns differ in response to salt perturbation in anaerobic digestion. Biotechnology for Biofuels, 2016, 9, 244.	6.2	81
62	In vitro degradation of a polymeric dye (Poly Râ€478) by manganese peroxidase. Biotechnology and Bioengineering, 2001, 75, 362-368.	3.3	79
63	Anaerobic treatment of azo dye Acid Orange 7 under batch conditions. Enzyme and Microbial Technology, 2005, 36, 264-272.	3.2	79
64	Removal of PPCPs from the sludge supernatant in a one stage nitritation/anammox process. Water Research, 2015, 68, 701-709.	11.3	78
65	Antioxidant activity of extracts from Gevuina avellana and Rosa rubiginosa defatted seeds. Food Research International, 2001, 34, 103-109.	6.2	77
66	Degradation of estrogens by laccase from Myceliophthora thermophila in fed-batch and enzymatic membrane reactors. Journal of Hazardous Materials, 2012, 213-214, 175-183.	12.4	77
67	Understanding the fate of organic micropollutants in sand and granular activated carbon biofiltration systems. Science of the Total Environment, 2016, 551-552, 640-648.	8.0	77
68	A UASB reactor coupled to a hybrid aerobic MBR as innovative plant configuration to enhance the removal of organic micropollutants. Chemosphere, 2016, 144, 452-458.	8.2	77
69	Bioremediation of HCH present in soil by the white-rot fungus Bjerkandera adusta in a slurry batch bioreactor. International Biodeterioration and Biodegradation, 2007, 60, 319-326.	3.9	76
70	Comparison of several methods for the separation of poly(3-hydroxybutyrate) from Cupriavidus necator H16 cultures. Biochemical Engineering Journal, 2015, 93, 250-259.	3.6	75
71	Role of methanogenesis on the biotransformation of organic micropollutants during anaerobic digestion. Science of the Total Environment, 2018, 622-623, 459-466.	8.0	75
72	Influence of C:N ratio on the start-up of up-flow anaerobic filter reactors. Water Research, 2000, 34, 2614-2619.	11.3	74

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73	Dye Decolorization by Manganese Peroxidase in an Enzymatic Membrane Bioreactor. Biotechnology Progress, 2008, 20, 74-81.	2.6	74
74	Optimization of solvent extraction of antioxidants from Eucalyptus globulus leaves by response surface methodology: Characterization and assessment of their bioactive properties. Industrial Crops and Products, 2017, 108, 649-659.	5.2	74
75	Enzyme-assisted hexane extraction of soya bean oil. Food Chemistry, 1995, 54, 223-231.	8.2	72
76	Biobleaching of oxygen delignified kraft pulp by several white rot fungal strains. Journal of Biotechnology, 1997, 53, 237-251.	3.8	72
77	Simultaneous methanogenesis and denitrification of pretreated effluents from a fish canning industry. Water Research, 2001, 35, 411-418.	11.3	71
78	Biotransformation of organic micropollutants by anaerobic sludge enzymes. Water Research, 2019, 152, 202-214.	11.3	71
79	Biodegradation of polycyclic aromatic hydrocarbons in forest and salt marsh soils by white-rot fungi. International Biodeterioration and Biodegradation, 2006, 58, 15-21.	3.9	69
80	Microbial catabolic activities are naturally selected by metabolic energy harvest rate. ISME Journal, 2015, 9, 2630-2641.	9.8	69
81	Modelling cometabolic biotransformation of organic micropollutants in nitrifying reactors. Water Research, 2014, 65, 371-383.	11.3	68
82	Advanced technologies for water treatment and reuse. AICHE Journal, 2015, 61, 3146-3158.	3.6	67
83	Comprehensive comparison of chemically enhanced primary treatment and high-rate activated sludge in novel wastewater treatment plant configurations. Water Research, 2020, 169, 115258.	11.3	67
84	Optimisation of the biological pretreatment of wheat straw with white-rot fungi for ethanol production. Bioprocess and Biosystems Engineering, 2013, 36, 1251-1260.	3.4	66
85	Organic overloading affects the microbial interactions during anaerobic digestion in sewage sludge reactors. Chemosphere, 2019, 222, 323-332.	8.2	66
86	Semiâ€micro C.O.D. determination method for highâ€salinity wastewater. Environmental Technology Letters, 1989, 10, 541-548.	0.4	64
87	Biodegradation of dibenzothiophene, fluoranthene, pyrene and chrysene in a soil slurry reactor by the white-rot fungus Bjerkandera sp. BOS55. Process Biochemistry, 2007, 42, 641-648.	3.7	63
88	Cometabolic Enzymatic Transformation of Organic Micropollutants under Methanogenic Conditions. Environmental Science & Technology, 2017, 51, 2963-2971.	10.0	63
89	Treatment of seafood-processing wastewaters in mesophilic and thermophilic anaerobic filters. Water Environment Research, 1995, 67, 33-45.	2.7	61
90	Biodegradation of a polymeric dye in a pulsed bed bioreactor by immobilised Phanerochaete chrysosporium. Water Research, 2002, 36, 1896-1901.	11.3	61

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91	Complete degradation of anthracene by Manganese Peroxidase in organic solvent mixtures. Enzyme and Microbial Technology, 2005, 37, 365-372.	3.2	61
92	Metabolic Energy-Based Modelling Explains Product Yielding in Anaerobic Mixed Culture Fermentations. PLoS ONE, 2015, 10, e0126739.	2.5	61
93	Operation of stirred tank reactors (STRs) and fixed-bed reactors (FBRs) with free and immobilized Phanerochaete chrysosporium for the continuous removal of pharmaceutical compounds. Biochemical Engineering Journal, 2012, 66, 38-45.	3.6	60
94	Immobilization of laccase by encapsulation in a solâ€“gel matrix and its characterization and use for the removal of estrogens. Biotechnology Progress, 2011, 27, 1570-1579.	2.6	59
95	Energy-based models for environmental biotechnology. Trends in Biotechnology, 2008, 26, 366-374.	9.3	58
96	Enzymatic saccharification of alkali-treated sunflower hulls. Bioresource Technology, 1994, 49, 53-59.	9.6	56
97	Optimization of the enzymatic treatment during aqueous oil extraction from sunflower seeds. Food Chemistry, 1998, 61, 467-474.	8.2	56
98	Aqueous processing of sunflower kernels with enzymatic technology. Food Chemistry, 1995, 53, 427-434.	8.2	55
99	Treatment of saline wastewaters from fish meal factories in an anaerobic filter under extreme ammonia concentrations. Bioresource Technology, 1997, 61, 69-78.	9.6	55
100	Strategies for the continuous production of ligninolytic enzymes in fixed and fluidised bed bioreactors. Journal of Biotechnology, 1998, 66, 27-39.	3.8	55
101	Rule-based diagnosis and supervision of a pilot-scale wastewater treatment plant using fuzzy logic techniques. Expert Systems With Applications, 2002, 22, 11-20.	7.6	55
102	Trials of bioremediation on a beach affected by the heavy oil spill of the Prestige. Journal of Hazardous Materials, 2006, 137, 1523-1531.	12.4	54
103	Evaluation of biodiesel as bioremediation agent for the treatment of the shore affected by the heavy oil spill of the Prestige. Journal of Hazardous Materials, 2007, 147, 914-922.	12.4	54
104	Application of a combined fungal and diluted acid pretreatment on olive tree biomass. Industrial Crops and Products, 2018, 121, 10-17.	5.2	54
105	A new device for measurement and control of gas production by bench scale anaerobic digesters. Water Research, 1990, 24, 1551-1554.	11.3	53
106	Decolorization of ion-exchange effluents derived from sugar-mill operations by Bjerkandera sp.BOS55. International Biodeterioration and Biodegradation, 1997, 40, 125-129.	3.9	53
107	Protein recovery during the overall treatment of wastewaters from fish-meal factories. Bioresource Technology, 1998, 63, 221-229.	9.6	53
108	Cell immobilization: Application to alcohol production. Enzyme and Microbial Technology, 1987, 9, 642-651.	3.2	52

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109	Iron removal from kaolin. Comparison between â€œin situâ€•and â€œtwo-stageâ€•bioleaching processes. Hydrometallurgy, 2003, 68, 97-105.	4.3	52
110	On the use of a high-redox potential laccase as an alternative for the transformation of non-steroidal anti-inflammatory drugs (NSAIDs). Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 233-242.	1.8	52
111	Kinetic modelling of anaerobic hydrolysis of solid wastes, including disintegration processes. Waste Management, 2015, 35, 96-104.	7.4	52
112	Title is missing!. World Journal of Microbiology and Biotechnology, 1998, 14, 309-320.	3.6	51
113	Enhanced methane production from pig manure anaerobic digestion using fish and biodiesel wastes as co-substrates. Bioresource Technology, 2012, 123, 507-513.	9.6	51
114	Continuous anaerobic treatment of wastewaters containing formaldehyde and urea. Bioresource Technology, 1999, 70, 283-291.	9.6	50
115	Outlining microbial community dynamics during temperature drop and subsequent recovery period in anaerobic co-digestion systems. Journal of Biotechnology, 2014, 192, 179-186.	3.8	50
116	Assessing the feasibility of two hybrid MBR systems using PAC for removing macro and micropollutants. Journal of Environmental Management, 2017, 203, 831-837.	7.8	50
117	Why are organic micropollutants not fully biotransformed? A mechanistic modelling approach to anaerobic systems. Water Research, 2018, 142, 115-128.	11.3	50
118	Control of pellet morphology of filamentous fungi in fluidized bed bioreactors by means of a pulsing flow. Application to Aspergillus niger and Phanerochaete chrysosporium. Enzyme and Microbial Technology, 1996, 19, 261-266.	3.2	49
119	Biodegradation of Pentachlorophenol in Soil Slurry Cultures byBjerkandera adustaandAnthracophyllumdiscolor. Industrial & Engineering Chemistry Research, 2007, 46, 6744-6751.	3.7	49
120	Biodegradability and toxicity in the anaerobic treatment of fish canning wastewaters. Environmental Technology (United Kingdom), 1991, 12, 669-677.	2.2	48
121	Simultaneous urea hydrolysis, formaldehyde removal and denitrification in a multifed upflow filter under anoxic and anaerobic conditions. Water Research, 2001, 35, 691-698.	11.3	48
122	Enzymic pre-treatment of Guevina avellana mol oil extraction by pressing. Process Biochemistry, 2003, 39, 51-57.	3.7	48
123	Comparison of PPCPs removal on a parallel-operated MBR and AS system and evaluation of effluent post-treatment on vertical flow reed beds. Water Science and Technology, 2011, 63, 2411-2417.	2.5	48
124	Variable stoichiometry with thermodynamic control in ADM1. Water Science and Technology, 2006, 54, 101-110.	2.5	47
125	Enzymatic technologies for remediation of hydrophobic organic pollutants in soil. Applied Microbiology and Biotechnology, 2015, 99, 8815-8829.	3.6	47
126	Diagnosis of acidification states in an anaerobic wastewater treatment plant using a fuzzy-based expert system. Control Engineering Practice, 2004, 12, 59-64.	5.5	46

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127	Assessing anaerobic co-digestion of pig manure with agroindustrial wastes: The link between environmental impacts and operational parameters. Science of the Total Environment, 2014, 497-498, 475-483.	8.0	46
128	Improving the catalytic performance of laccase using a novel continuous-flow microreactor. Chemical Engineering Journal, 2013, 223, 497-506.	12.7	45
129	Assessing the use of nanoimmobilized laccases to remove micropollutants from wastewater. Environmental Science and Pollution Research, 2016, 23, 3217-3228.	5.3	45
130	Blending based optimisation and pretreatment strategies to enhance anaerobic digestion of poultry manure. Waste Management, 2018, 71, 521-531.	7.4	44
131	Oil extractability from enzymatically treated soybean and sunflower: range of operational variables. Food Chemistry, 1993, 46, 277-284.	8.2	43
132	An expert system for monitoring and diagnosis of anaerobic wastewater treatment plants. Water Research, 2002, 36, 2656-2666.	11.3	43
133	Role of exopolymeric protein on the settleability of nitrifying sludges. Bioresource Technology, 2004, 94, 43-48.	9.6	43
134	Effect of surfactants on the soil desorption of hexachlorocyclohexane (HCH) isomers and their anaerobic biodegradation. Journal of Chemical Technology and Biotechnology, 2005, 80, 1005-1015.	3.2	43
135	Electron bifurcation mechanism and homoacetogenesis explain products yields in mixed culture anaerobic fermentations. Water Research, 2018, 141, 349-356.	11.3	43
136	Continuous operation of a fluidized bed reactor for the removal of estrogens by immobilized laccase on Eupergit supports. Journal of Biotechnology, 2012, 162, 404-406.	3.8	42
137	Enhanced performance of sulfate reducing bacteria based biocathode using stainless steel mesh on activated carbon fabric electrode. Bioresource Technology, 2013, 150, 172-180.	9.6	42
138	Acidogenesis is a key step in the anaerobic biotransformation of organic micropollutants. Journal of Hazardous Materials, 2020, 389, 121888.	12.4	42
139	Coupled BAS and anoxic USB system to remove urea and formaldehyde from wastewater. Water Research, 2003, 37, 3445-3451.	11.3	41
140	Influence of Different Pretreatments on Anaerobically Digested Sludge Characteristics: Suitability for Final Disposal. Water, Air, and Soil Pollution, 2009, 199, 311-321.	2.4	41
141	Trends in organic micropollutants removal in secondary treatment of sewage. Reviews in Environmental Science and Biotechnology, 2018, 17, 447-469.	8.1	41
142	Green approaches for the extraction of antioxidants from eucalyptus leaves. Industrial Crops and Products, 2019, 138, 111473.	5.2	41
143	Optimisation of substrate blends in anaerobic co-digestion using adaptive linear programming. Bioresource Technology, 2014, 173, 159-167.	9.6	40
144	Covalent immobilisation of manganese peroxidases (MnP) from Phanerochaete chrysosporium and Bjerkandera sp. BOS55. Enzyme and Microbial Technology, 2003, 32, 769-775.	3.2	38

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145	Solvent screening methodology for in situ ABE extractive fermentation. Applied Microbiology and Biotechnology, 2014, 98, 5915-5924.	3.6	38
146	The potential of the innovative SeMPAC process for enhancing the removal of recalcitrant organic micropollutants. Journal of Hazardous Materials, 2016, 308, 29-36.	12.4	38
147	Anaerobic biodegradability and toxicity of wastewaters from chlorine and total chlorine-free bleaching of eucalyptus kraft pulps. Water Research, 1997, 31, 2487-2494.	11.3	37
148	Biodegradation of formaldehyde under anaerobic conditions. Enzyme and Microbial Technology, 1999, 24, 255-262.	3.2	37
149	Generalised modelling approach for anaerobic co-digestion of fermentable substrates. Bioresource Technology, 2013, 147, 525-533.	9.6	37
150	Enzymatic treatment of sunflower kernels before oil extraction. Food Research International, 1995, 28, 537-545.	6.2	36
151	A systematic methodology for the robust quantification of energy efficiency at wastewater treatment plants featuring Data Envelopment Analysis. Water Research, 2018, 141, 317-328.	11.3	36
152	Degradation of high molecular weight compounds of Kraft pulp mill effluents by a combined treatment with fungi and bacteria. Biotechnology Letters, 1995, 17, 1261-1266.	2.2	35
153	Manganese Removal from Spiked Kaolinitic Soil and Sludge by Electromigration. Separation Science and Technology, 1999, 34, 3227-3241.	2.5	35
154	Risk assessment of persistent pharmaceuticals in biosolids: Dealing with uncertainty. Journal of Hazardous Materials, 2016, 302, 72-81.	12.4	35
155	Thermal hydrolysis of sewage sludge partially removes organic micropollutants but does not enhance their anaerobic biotransformation. Science of the Total Environment, 2019, 690, 534-542.	8.0	35
156	Fuzzy-Based Control of an Anaerobic Reactor Treating Wastewaters Containing Ethanol and Carbohydrates. Industrial & Engineering Chemistry Research, 2007, 46, 6707-6715.	3.7	34
157	Anaerobic Treatment of Eucalyptus Fiberboard Manufacturing Wastewater by a Hybrid USBF Lab-Scale Reactor. Environmental Technology (United Kingdom), 1995, 16, 677-684.	2.2	33
158	Methanogenic degradation of p-cresol in batch and in continuous UASB reactors. Water Research, 1997, 31, 1549-1554.	11.3	32
159	Influence of transitional states on the microbial ecology of anaerobic digesters treating solid wastes. Applied Microbiology and Biotechnology, 2014, 98, 2015-2027.	3.6	32
160	Continuous removal of endocrine disruptors by versatile peroxidase using a twoâ€stage system. Biotechnology Progress, 2015, 31, 908-916.	2.6	32
161	Microbiome response to controlled shifts in ammonium and LCFA levels in co-digestion systems. Journal of Biotechnology, 2016, 220, 35-44.	3.8	32
162	Selection of variables for on-line monitoring, diagnosis, and control of anaerobic digestion processes. Water Science and Technology, 2009, 60, 615-622.	2.5	31

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163	Metabolic modeling for predicting VFA production from proteinâ€rich substrates by mixedâ€culture fermentation. Biotechnology and Bioengineering, 2020, 117, 73-84.	3.3	31
164	Simultaneous biodegradation ofp-cresol and phenol by the basidiomycetePhanerochaete chrysosporium. Journal of Industrial Microbiology, 1994, 13, 311-314.	0.9	30
165	Pilot-Scale Validation of a New Sensor for On-Line Analysis of Volatile Fatty Acids and Alkalinity in Anaerobic Wastewater Treatment Plants. Environmental Engineering Science, 2009, 26, 641-649.	1.6	30
166	Production of lignin peroxidase by Phanerochaete chrysosporium in a packed bed bioreactor operated in semi-continuous mode. Journal of Biotechnology, 1995, 42, 247-253.	3.8	29
167	Continuous production of manganese peroxidase byPhanerochaete chrysosporium immobilized on polyurethane foam in a pulsed packed-bed bioreactor. , 1997, 56, 130-137.		29
168	An anaerobic bioreactor allows the efficient degradation of HCH isomers in soil slurry. Chemosphere, 2006, 63, 1005-1013.	8.2	29
169	Winery effluent treatment at an anaerobic hybrid USBF pilot plant under normal and abnormal operation. Water Science and Technology, 2007, 56, 25-31.	2.5	29
170	Operation of a two-phase partitioning bioreactor for the oxidation of anthracene by the enzyme manganese peroxidase. Chemosphere, 2007, 66, 1744-1751.	8.2	29
171	Potentiality of a ceramic membrane reactor for the laccase-catalyzed removal of bisphenol A from secondary effluents. Applied Microbiology and Biotechnology, 2015, 99, 9299-9308.	3.6	29
172	What happens with organic micropollutants during UV disinfection in WWTPs? A global perspective from laboratory to full-scale. Journal of Hazardous Materials, 2018, 342, 670-678.	12.4	29
173	The time response of anaerobic digestion microbiome during an organic loading rate shock. Applied Microbiology and Biotechnology, 2018, 102, 10285-10297.	3.6	29
174	A comparison of two techniques (adsorption and entrapment) for the immobilization of Aspergillus niger in polyurethane foam. Biotechnology Letters, 1994, 8, 389-394.	0.5	28
175	The influence of substrate structure on the kinetics of the hydrolysis of starch by glucoamylase. Applied Biochemistry and Biotechnology, 1996, 59, 329-336.	2.9	28
176	Use of cheese whey as a substrate to produce manganese peroxidase by Bjerkandera sp BOS55. Journal of Industrial Microbiology and Biotechnology, 1999, 23, 86-90.	3.0	28
177	Fostering the action of versatile peroxidase as a highly efficient biocatalyst for the removal of endocrine disrupting compounds. New Biotechnology, 2016, 33, 187-195.	4.4	28
178	Characterization of biomass from a pilot plant digester treating saline wastewater. Journal of Chemical Technology and Biotechnology, 1995, 63, 384-392.	3.2	27
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