

Juan Lema

List of Publications by Year in descending order

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316
papers

18,552
citations

10956

71
h-index

18606

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. <i>Water Research</i> , 2004, 38, 2918-2926.	5.3	1,277
2	Removal of Pharmaceutical and Personal Care Products (PPCPs) under nitrifying and denitrifying conditions. <i>Water Research</i> , 2010, 44, 3214-3224.	5.3	406
3	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.	7.8	392
4	How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?. <i>Reviews in Environmental Science and Biotechnology</i> , 2008, 7, 125-138.	3.9	365
5	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.	5.1	333
6	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge. <i>Water Research</i> , 2007, 41, 2139-2150.	5.3	332
7	Microbial management of anaerobic digestion: exploiting the microbiome-functionality nexus. <i>Current Opinion in Biotechnology</i> , 2015, 33, 103-111.	3.3	268
8	Determination of the solid-water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge. <i>Water Research</i> , 2008, 42, 287-295.	5.3	265
9	Pre-treatment of hospital wastewater by coagulation-flocculation and flotation. <i>Bioresource Technology</i> , 2009, 100, 2138-2146.	4.8	264
10	Methanogenic and non-methanogenic activity tests. Theoretical basis and experimental set up. <i>Water Research</i> , 1993, 27, 1361-1376.	5.3	250
11	A methodology for optimising feed composition for anaerobic co-digestion of agro-industrial wastes. <i>Bioresource Technology</i> , 2010, 101, 1153-1158.	4.8	238
12	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. <i>Water Research</i> , 2005, 39, 4790-4796.	5.3	229
13	Influence of nitrifying conditions on the biodegradation and adsorption of emerging micropollutants. <i>Water Research</i> , 2012, 46, 5434-5444.	5.3	225
14	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, 506-513.	6.5	224
15	Influence of the content in fats and proteins on the anaerobic biodegradability of dairy wastewaters. <i>Bioresource Technology</i> , 2000, 74, 231-239.	4.8	223
16	Sodium inhibition in the anaerobic digestion process: Antagonism and adaptation phenomena. <i>Enzyme and Microbial Technology</i> , 1995, 17, 180-188.	1.6	221
17	Modeling product formation in anaerobic mixed culture fermentations. <i>Biotechnology and Bioengineering</i> , 2006, 93, 592-606.	1.7	196
18	Relationship between microbial activity and microbial community structure in six full-scale anaerobic digesters. <i>Microbiological Research</i> , 2012, 167, 581-589.	2.5	186

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19	Laccase-catalyzed degradation of anti-inflammatories and estrogens. <i>Biochemical Engineering Journal</i> , 2010, 51, 124-131.	1.8	185
20	The effect and fate of antibiotics during the anaerobic digestion of pig manure. <i>Bioresource Technology</i> , 2010, 101, 8581-8586.	4.8	182
21	Enzymatic pretreatment to enhance oil extraction from fruits and oilseeds: a review. <i>Food Chemistry</i> , 1994, 49, 271-286.	4.2	179
22	Evaluation of Extracts from <i>Gevuina avellana</i> Hulls as Antioxidants. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 3890-3897.	2.4	165
23	Enzymatic degradation of anthracene, dibenzothiophene and pyrene by manganese peroxidase in media containing acetone. <i>Chemosphere</i> , 2006, 64, 408-414.	4.2	154
24	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage. <i>Chemosphere</i> , 2008, 72, 1118-1123.	4.2	154
25	Nitrification in saline wastewater with high ammonia concentration in an activated sludge unit. <i>Water Research</i> , 2002, 36, 2555-2560.	5.3	149
26	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage. <i>Desalination</i> , 2008, 221, 511-517.	4.0	147
27	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.	3.9	146
28	Is anaerobic digestion effective for the removal of organic micropollutants and biological activities from sewage sludge?. <i>Water Research</i> , 2016, 102, 211-220.	5.3	140
29	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.	1.7	136
30	Relationship between phenol degradation efficiency and microbial community structure in an anaerobic SBR. <i>Water Research</i> , 2013, 47, 6739-6749.	5.3	133
31	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.	5.3	128
32	Biotransformation of pharmaceuticals under nitrification, nitratation and heterotrophic conditions. <i>Science of the Total Environment</i> , 2016, 541, 1439-1447.	3.9	125
33	Environmental assessment of anaerobically digested sludge reuse in agriculture: Potential impacts of emerging micropollutants. <i>Water Research</i> , 2010, 44, 3225-3233.	5.3	121
34	Removal of persistent pharmaceutical micropollutants from sewage by addition of PAC in a sequential membrane bioreactor. <i>Water Research</i> , 2011, 45, 5323-5333.	5.3	119
35	Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products. <i>Chemosphere</i> , 2007, 67, 1444-1452.	4.2	117
36	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content. <i>Bioresource Technology</i> , 1995, 54, 269-278.	4.8	116

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37	Key microbial communities steering the functioning of anaerobic digesters during hydraulic and organic overloading shocks. <i>Bioresource Technology</i> , 2015, 197, 208-216.	4.8	114
38	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.	4.3	109
39	Fungal pretreatment of agricultural residues for bioethanol production. <i>Industrial Crops and Products</i> , 2016, 89, 486-492.	2.5	108
40	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions. <i>Water Research</i> , 2005, 39, 771-778.	5.3	107
41	Combined cross-linked enzyme aggregates from versatile peroxidase and glucose oxidase: Production, partial characterization and application for the elimination of endocrine disruptors. <i>Bioresource Technology</i> , 2011, 102, 6593-6599.	4.8	106
42	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, 4536-4543.	4.6	105
43	Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic bioprocesses. <i>Energy and Environmental Science</i> , 2013, 6, 3780.	15.6	104
44	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.	1.5	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. <i>Water Science and Technology</i> , 2006, 53, 109-117.	1.2	98
46	Oxidation of pharmaceutically active compounds by a ligninolytic fungal peroxidase. <i>Biodegradation</i> , 2011, 22, 539-550.	1.5	97
47	Degradation of volatile fatty acids by differently enriched methanogenic cultures: Kinetics and inhibition. <i>Water Research</i> , 1995, 29, 505-509.	5.3	96
48	A packed-bed fungal bioreactor for the continuous decolourisation of azo-dyes (Orange II). <i>Journal of Biotechnology</i> , 2001, 89, 99-106.	1.9	95
49	Anaerobic degradation of hexachlorocyclohexane isomers in liquid and soil slurry systems. <i>Chemosphere</i> , 2005, 61, 528-536.	4.2	92
50	Enzymatic membrane reactors for biodegradation of recalcitrant compounds. Application to dye decolourisation. <i>Journal of Biotechnology</i> , 2002, 99, 249-257.	1.9	90
51	Oxidative Degradation of Azo Dyes by Manganese Peroxidase under Optimized Conditions. <i>Biotechnology Progress</i> , 2003, 19, 325-331.	1.3	90
52	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, 135-149.	1.1	90
53	Evaluation of different fungal strains in the decolourisation of synthetic dyes. <i>Biotechnology Letters</i> , 2000, 22, 1499-1503.	1.1	89
54	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, 373-386.	1.5	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. <i>Chemosphere</i> , 2012, 89, 164-171.	4.2	89
56	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. <i>Water Research</i> , 2006, 40, 871-880.	5.3	88
57	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, 884-890.	4.6	88
58	Different fungal manganese-oxidizing peroxidases: a comparison between <i>Bjerkandera</i> sp. and <i>Phanerochaete chrysosporium</i> . <i>Journal of Biotechnology</i> , 2000, 77, 235-245.	1.9	87
59	Nitrification at high ammonia loading rates in an activated sludge unit. <i>Bioresource Technology</i> , 1999, 68, 141-148.	4.8	82
60	Biodegradation kinetic constants and sorption coefficients of micropollutants in membrane bioreactors. <i>Biodegradation</i> , 2013, 24, 165-177.	1.5	82
61	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.	6.2	81
62	In vitro degradation of a polymeric dye (Poly R-478) by manganese peroxidase. <i>Biotechnology and Bioengineering</i> , 2001, 75, 362-368.	1.7	79
63	Anaerobic treatment of azo dye Acid Orange 7 under batch conditions. <i>Enzyme and Microbial Technology</i> , 2005, 36, 264-272.	1.6	79
64	Removal of PPCPs from the sludge supernatant in a one stage nitritation/anammox process. <i>Water Research</i> , 2015, 68, 701-709.	5.3	78
65	Antioxidant activity of extracts from <i>Gevuina avellana</i> and <i>Rosa rubiginosa</i> defatted seeds. <i>Food Research International</i> , 2001, 34, 103-109.	2.9	77
66	Degradation of estrogens by laccase from <i>Myceliophthora thermophila</i> in fed-batch and enzymatic membrane reactors. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 175-183.	6.5	77
67	Understanding the fate of organic micropollutants in sand and granular activated carbon biofiltration systems. <i>Science of the Total Environment</i> , 2016, 551-552, 640-648.	3.9	77
68	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, 452-458.	4.2	77
69	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.	1.9	76
70	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.	1.8	75
71	Role of methanogenesis on the biotransformation of organic micropollutants during anaerobic digestion. <i>Science of the Total Environment</i> , 2018, 622-623, 459-466.	3.9	75
72	Influence of C:N ratio on the start-up of up-flow anaerobic filter reactors. <i>Water Research</i> , 2000, 34, 2614-2619.	5.3	74

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73	Dye Decolorization by Manganese Peroxidase in an Enzymatic Membrane Bioreactor. <i>Biotechnology Progress</i> , 2008, 20, 74-81.	1.3	74
74	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.	2.5	74
75	Enzyme-assisted hexane extraction of soya bean oil. <i>Food Chemistry</i> , 1995, 54, 223-231.	4.2	72
76	Biobleaching of oxygen delignified kraft pulp by several white rot fungal strains. <i>Journal of Biotechnology</i> , 1997, 53, 237-251.	1.9	72
77	Simultaneous methanogenesis and denitrification of pretreated effluents from a fish canning industry. <i>Water Research</i> , 2001, 35, 411-418.	5.3	71
78	Biotransformation of organic micropollutants by anaerobic sludge enzymes. <i>Water Research</i> , 2019, 152, 202-214.	5.3	71
79	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.	1.9	69
80	Microbial catabolic activities are naturally selected by metabolic energy harvest rate. <i>ISME Journal</i> , 2015, 9, 2630-2641.	4.4	69
81	Modelling cometabolic biotransformation of organic micropollutants in nitrifying reactors. <i>Water Research</i> , 2014, 65, 371-383.	5.3	68
82	Advanced technologies for water treatment and reuse. <i>AIChE Journal</i> , 2015, 61, 3146-3158.	1.8	67
83	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.	5.3	67
84	Optimisation of the biological pretreatment of wheat straw with white-rot fungi for ethanol production. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1251-1260.	1.7	66
85	Organic overloading affects the microbial interactions during anaerobic digestion in sewage sludge reactors. <i>Chemosphere</i> , 2019, 222, 323-332.	4.2	66
86	Semi-micro C.O.D. determination method for high-salinity wastewater. <i>Environmental Technology Letters</i> , 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 <i>Bjerkandera</i> sp. BOS55. <i>Process Biochemistry</i> , 2007, 42, 641-648.	1.8	63
88	Cometabolic Enzymatic Transformation of Organic Micropollutants under Methanogenic Conditions. <i>Environmental Science & Technology</i> , 2017, 51, 2963-2971.	4.6	63
89	Treatment of seafood-processing wastewaters in mesophilic and thermophilic anaerobic filters. <i>Water Environment Research</i> , 1995, 67, 33-45.	1.3	61
90	Biodegradation of a polymeric dye in a pulsed bed bioreactor by immobilised <i>Phanerochaete chrysosporium</i> . <i>Water Research</i> , 2002, 36, 1896-1901.	5.3	61

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91	Complete degradation of anthracene by Manganese Peroxidase in organic solvent mixtures. <i>Enzyme and Microbial Technology</i> , 2005, 37, 365-372.	1.6	61
92	Metabolic Energy-Based Modelling Explains Product Yielding in Anaerobic Mixed Culture Fermentations. <i>PLoS ONE</i> , 2015, 10, e0126739.	1.1	61
93	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.	1.8	60
94	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, 1570-1579.	1.3	59
95	Energy-based models for environmental biotechnology. <i>Trends in Biotechnology</i> , 2008, 26, 366-374.	4.9	58
96	Enzymatic saccharification of alkali-treated sunflower hulls. <i>Bioresource Technology</i> , 1994, 49, 53-59.	4.8	56
97	Optimization of the enzymatic treatment during aqueous oil extraction from sunflower seeds. <i>Food Chemistry</i> , 1998, 61, 467-474.	4.2	56
98	Aqueous processing of sunflower kernels with enzymatic technology. <i>Food Chemistry</i> , 1995, 53, 427-434.	4.2	55
99	Treatment of saline wastewaters from fish meal factories in an anaerobic filter under extreme ammonia concentrations. <i>Bioresource Technology</i> , 1997, 61, 69-78.	4.8	55
100	Strategies for the continuous production of ligninolytic enzymes in fixed and fluidised bed bioreactors. <i>Journal of Biotechnology</i> , 1998, 66, 27-39.	1.9	55
101	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.	4.4	55
102	Trials of bioremediation on a beach affected by the heavy oil spill of the Prestige. <i>Journal of Hazardous Materials</i> , 2006, 137, 1523-1531.	6.5	54
103	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, 914-922.	6.5	54
104	Application of a combined fungal and diluted acid pretreatment on olive tree biomass. <i>Industrial Crops and Products</i> , 2018, 121, 10-17.	2.5	54
105	A new device for measurement and control of gas production by bench scale anaerobic digesters. <i>Water Research</i> , 1990, 24, 1551-1554.	5.3	53
106	Decolorization of ion-exchange effluents derived from sugar-mill operations by <i>Bjerkandera sp.</i> BOS55. <i>International Biodeterioration and Biodegradation</i> , 1997, 40, 125-129.	1.9	53
107	Protein recovery during the overall treatment of wastewaters from fish-meal factories. <i>Bioresource Technology</i> , 1998, 63, 221-229.	4.8	53
108	Cell immobilization: Application to alcohol production. <i>Enzyme and Microbial Technology</i> , 1987, 9, 642-651.	1.6	52

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109	Iron removal from kaolin. Comparison between "in situ" and "two-stage" bioleaching processes. Hydrometallurgy, 2003, 68, 97-105.	1.8	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.	3.7	52
112	Title is missing!. World Journal of Microbiology and Biotechnology, 1998, 14, 309-320.	1.7	51
113	Enhanced methane production from pig manure anaerobic digestion using fish and biodiesel wastes as co-substrates. Bioresource Technology, 2012, 123, 507-513.	4.8	51
114	Continuous anaerobic treatment of wastewaters containing formaldehyde and urea. Bioresource Technology, 1999, 70, 283-291.	4.8	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.	1.9	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.	3.8	50
117	Why are organic micropollutants not fully biotransformed? A mechanistic modelling approach to anaerobic systems. Water Research, 2018, 142, 115-128.	5.3	50
118	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> . Enzyme and Microbial Technology, 1996, 19, 261-266.	1.6	49
119	Biodegradation of Pentachlorophenol in Soil Slurry Cultures by <i>Bjerkandera adusta</i> and <i>Anthraco-phyl-lum discolor</i> . Industrial & Engineering Chemistry Research, 2007, 46, 6744-6751.	1.8	49
120	Biodegradability and toxicity in the anaerobic treatment of fish canning wastewaters. Environmental Technology (United Kingdom), 1991, 12, 669-677.	1.2	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.	5.3	48
122	Enzymic pre-treatment of Guevina avellana mol oil extraction by pressing. Process Biochemistry, 2003, 39, 51-57.	1.8	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.	1.2	48
124	Variable stoichiometry with thermodynamic control in ADM1. Water Science and Technology, 2006, 54, 101-110.	1.2	47
125	Enzymatic technologies for remediation of hydrophobic organic pollutants in soil. Applied Microbiology and Biotechnology, 2015, 99, 8815-8829.	1.7	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.	3.2	46

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127	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.	3.9	46
128	Improving the catalytic performance of laccase using a novel continuous-flow microreactor. <i>Chemical Engineering Journal</i> , 2013, 223, 497-506.	6.6	45
129	Assessing the use of nanoimmobilized laccases to remove micropollutants from wastewater. <i>Environmental Science and Pollution Research</i> , 2016, 23, 3217-3228.	2.7	45
130	Blending based optimisation and pretreatment strategies to enhance anaerobic digestion of poultry manure. <i>Waste Management</i> , 2018, 71, 521-531.	3.7	44
131	Oil extractability from enzymatically treated soybean and sunflower: range of operational variables. <i>Food Chemistry</i> , 1993, 46, 277-284.	4.2	43
132	An expert system for monitoring and diagnosis of anaerobic wastewater treatment plants. <i>Water Research</i> , 2002, 36, 2656-2666.	5.3	43
133	Role of exopolymeric protein on the settleability of nitrifying sludges. <i>Bioresource Technology</i> , 2004, 94, 43-48.	4.8	43
134	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.	1.6	43
135	Electron bifurcation mechanism and homoacetogenesis explain products yields in mixed culture anaerobic fermentations. <i>Water Research</i> , 2018, 141, 349-356.	5.3	43
136	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, 404-406.	1.9	42
137	Enhanced performance of sulfate reducing bacteria based biocathode using stainless steel mesh on activated carbon fabric electrode. <i>Bioresource Technology</i> , 2013, 150, 172-180.	4.8	42
138	Acidogenesis is a key step in the anaerobic biotransformation of organic micropollutants. <i>Journal of Hazardous Materials</i> , 2020, 389, 121888.	6.5	42
139	Coupled BAS and anoxic USB system to remove urea and formaldehyde from wastewater. <i>Water Research</i> , 2003, 37, 3445-3451.	5.3	41
140	Influence of Different Pretreatments on Anaerobically Digested Sludge Characteristics: Suitability for Final Disposal. <i>Water, Air, and Soil Pollution</i> , 2009, 199, 311-321.	1.1	41
141	Trends in organic micropollutants removal in secondary treatment of sewage. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 447-469.	3.9	41
142	Green approaches for the extraction of antioxidants from eucalyptus leaves. <i>Industrial Crops and Products</i> , 2019, 138, 111473.	2.5	41
143	Optimisation of substrate blends in anaerobic co-digestion using adaptive linear programming. <i>Bioresource Technology</i> , 2014, 173, 159-167.	4.8	40
144	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.	1.6	38

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145	Solvent screening methodology for in situ ABE extractive fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5915-5924.	1.7	38
146	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.	6.5	38
147	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.	5.3	37
148	Biodegradation of formaldehyde under anaerobic conditions. <i>Enzyme and Microbial Technology</i> , 1999, 24, 255-262.	1.6	37
149	Generalised modelling approach for anaerobic co-digestion of fermentable substrates. <i>Bioresource Technology</i> , 2013, 147, 525-533.	4.8	37
150	Enzymatic treatment of sunflower kernels before oil extraction. <i>Food Research International</i> , 1995, 28, 537-545.	2.9	36
151	A systematic methodology for the robust quantification of energy efficiency at wastewater treatment plants featuring Data Envelopment Analysis. <i>Water Research</i> , 2018, 141, 317-328.	5.3	36
152	Degradation of high molecular weight compounds of Kraft pulp mill effluents by a combined treatment with fungi and bacteria. <i>Biotechnology Letters</i> , 1995, 17, 1261-1266.	1.1	35
153	Manganese Removal from Spiked Kaolinitic Soil and Sludge by Electromigration. <i>Separation Science and Technology</i> , 1999, 34, 3227-3241.	1.3	35
154	Risk assessment of persistent pharmaceuticals in biosolids: Dealing with uncertainty. <i>Journal of Hazardous Materials</i> , 2016, 302, 72-81.	6.5	35
155	Thermal hydrolysis of sewage sludge partially removes organic micropollutants but does not enhance their anaerobic biotransformation. <i>Science of the Total Environment</i> , 2019, 690, 534-542.	3.9	35
156	Fuzzy-Based Control of an Anaerobic Reactor Treating Wastewaters Containing Ethanol and Carbohydrates. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6707-6715.	1.8	34
157	Anaerobic Treatment of Eucalyptus Fiberboard Manufacturing Wastewater by a Hybrid USBF Lab-Scale Reactor. <i>Environmental Technology (United Kingdom)</i> , 1995, 16, 677-684.	1.2	33
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