

Madalena Alves

List of Publications by Citations

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174
papers

7,488
citations

45
h-index

82
g-index

181
ext. papers

8,559
ext. citations

6.4
avg, IF

6.03
L-index

#	Paper	IF	Citations
174	Defining the biomethane potential (BMP) of solid organic wastes and energy crops: a proposed protocol for batch assays. <i>Water Science and Technology</i> , 2009 , 59, 927-34	2.2	1141
173	Towards a standardization of biomethane potential tests. <i>Water Science and Technology</i> , 2016 , 74, 2515-2522	3.5	379
172	Anaerobic digestion of lipid-rich waste: Effects of lipid concentration. <i>Renewable Energy</i> , 2007 , 32, 965-975	5.1	308
171	Anaerobic biodegradation of oleic and palmitic acids: evidence of mass transfer limitations caused by long chain fatty acid accumulation onto the anaerobic sludge. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 15-23	4.9	221
170	Waste lipids to energy: how to optimize methane production from long-chain fatty acids (LCFA). <i>Microbial Biotechnology</i> , 2009 , 2, 538-50	6.3	195
169	Methane Production and Conductive Materials: A Critical Review. <i>Environmental Science & Technology</i> , 2018 , 52, 10241-10253	10.3	182
168	Influence of inoculum activity on the bio-methanization of a kitchen waste under different waste/inoculum ratios. <i>Process Biochemistry</i> , 2004 , 39, 2019-2024	4.8	148
167	Mineralization of LCFA associated with anaerobic sludge: Kinetics, enhancement of methanogenic activity, and effect of VFA. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 502-11	4.9	138
166	Ecophysiology of syntrophic communities that degrade saturated and unsaturated long-chain fatty acids. <i>FEMS Microbiology Ecology</i> , 2009 , 68, 257-72	4.3	135
165	Dyes: Environmental Impact and Remediation 2012 , 111-162		129
164	Biomethanation potential of macroalgae <i>Ulva</i> spp. and <i>Gracilaria</i> spp. and in co-digestion with waste activated sludge. <i>Bioresource Technology</i> , 2012 , 114, 320-6	11	121
163	<i>Syntrophomonas zehnderi</i> sp. nov., an anaerobe that degrades long-chain fatty acids in co-culture with <i>Methanobacterium formicicum</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 609-615	2.2	118
162	Effects of lipids and oleic acid on biomass development in anaerobic fixed-bed reactors. Part II: Oleic acid toxicity and biodegradability. <i>Water Research</i> , 2001 , 35, 264-70	12.5	100
161	A design of experiments to assess phosphorous removal and crystal properties in struvite precipitation of source separated urine using different Mg sources. <i>Chemical Engineering Journal</i> , 2016 , 298, 146-153	14.7	99
160	Anaerobic co-digestion of coffee waste and sewage sludge. <i>Waste Management</i> , 2006 , 26, 176-81	8.6	97
159	Carbon nanotubes accelerate methane production in pure cultures of methanogens and in a syntrophic coculture. <i>Environmental Microbiology</i> , 2017 , 19, 2727-2739	5.2	94
158	Carbon based materials as novel redox mediators for dye wastewater biodegradation. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 713-720	21.8	94

157	Enhancement of methane production from barley waste. <i>Biomass and Bioenergy</i> , 2006 , 30, 599-603	5.3	91
156	Molecular assessment of complex microbial communities degrading long chain fatty acids in methanogenic bioreactors. <i>FEMS Microbiology Ecology</i> , 2007 , 60, 252-65	4.3	89
155	Anaerobic degradation of oleic acid by suspended and granular sludge: identification of palmitic acid as a key intermediate. <i>Water Science and Technology</i> , 2002 , 45, 139-144	2.2	87
154	Microbial communities involved in anaerobic degradation of unsaturated or saturated long-chain fatty acids. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1054-64	4.8	86
153	Metallic nanoparticles: microbial synthesis and unique properties for biotechnological applications, bioavailability and biotransformation. <i>Critical Reviews in Biotechnology</i> , 2015 , 35, 114-28	9.4	75
152	Co-digestion of cow manure, food waste and intermittent input of fat. <i>Bioresource Technology</i> , 2009 , 100, 1957-62	11	75
151	Influence of composition on the biomethanation potential of restaurant waste at mesophilic temperatures. <i>Waste Management</i> , 2008 , 28, 965-72	8.6	72
150	Thermochemical pre- and biological co-treatments to improve hydrolysis and methane production from poultry litter. <i>Bioresource Technology</i> , 2012 , 111, 141-7	11	71
149	Activity and viability of methanogens in anaerobic digestion of unsaturated and saturated long-chain fatty acids. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4239-45	4.8	70
148	Detection and quantification of long chain fatty acids in liquid and solid samples and its relevance to understand anaerobic digestion of lipids. <i>Bioresource Technology</i> , 2009 , 100, 91-6	11	70
147	Effect of lipids and oleic acid on biomass development in anaerobic fixed-bed reactors. Part I: Biofilm growth and activity. <i>Water Research</i> , 2001 , 35, 255-63	12.5	69
146	Enhancement of methane production from long chain fatty acid based effluents. <i>Bioresource Technology</i> , 2008 , 99, 4086-95	11	68
145	Modelling inhibitory effects of long chain fatty acids in the anaerobic digestion process. <i>Water Research</i> , 2013 , 47, 1369-80	12.5	67
144	TiO ₂ /graphene and TiO ₂ /graphene oxide nanocomposites for photocatalytic applications: A computer modeling and experimental study. <i>Composites Part B: Engineering</i> , 2018 , 145, 39-46	10	66
143	Strategies for lipids and phenolics degradation in the anaerobic treatment of olive mill wastewater. <i>Water Research</i> , 2012 , 46, 1684-92	12.5	64
142	Thermophilic co-digestion of organic fraction of municipal solid wastes with FOG wastes from a sewage treatment plant: reactor performance and microbial community monitoring. <i>Bioresource Technology</i> , 2011 , 102, 4734-41	11	64
141	Thermal modification of activated carbon surface chemistry improves its capacity as redox mediator for azo dye reduction. <i>Journal of Hazardous Materials</i> , 2010 , 183, 931-9	12.8	62
140	Photocatalytic and combined anaerobic-photocatalytic treatment of textile dyes. <i>Chemosphere</i> , 2008 , 72, 1816-22	8.4	60

139	Evaluation of the biomethane potential of solid fish waste. <i>Waste Management</i> , 2012 , 32, 1347-52	8.6	57
138	Influence of adsorption and anaerobic granular sludge characteristics on long chain fatty acids inhibition process. <i>Water Research</i> , 2012 , 46, 5268-78	12.5	55
137	Continuous high rate anaerobic treatment of oleic acid based wastewater is possible after a step feeding start-up. <i>Environmental Science & Technology</i> , 2009 , 43, 2931-6	10.3	54
136	Fate of LCFA in the co-digestion of cow manure, food waste and discontinuous addition of oil. <i>Water Research</i> , 2009 , 43, 5142-50	12.5	54
135	Effect of ferulic acid on the performance of soy protein isolate-based edible coatings applied to fresh-cut apples. <i>LWT - Food Science and Technology</i> , 2017 , 80, 409-415	5.4	52
134	Accumulation of long chain fatty acids onto anaerobic sludge under steady state and shock loading conditions: effect on acetogenic and methanogenic activity. <i>Water Science and Technology</i> , 2003 , 48, 33-40	2.2	50
133	Effects of bioaugmentation by an anaerobic lipolytic bacterium on anaerobic digestion of lipid-rich waste. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1745-1752	3.5	49
132	Optimization of biogas production from <i>Sargassum</i> sp. using a design of experiments to assess the co-digestion with glycerol and waste frying oil. <i>Bioresource Technology</i> , 2015 , 175, 480-5	11	48
131	Quantitative monitoring of an activated sludge reactor using on-line UV-visible and near-infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1159-66	4.4	46
130	Engineered heat treated methanogenic granules: a promising biotechnological approach for extreme thermophilic biohydrogen production. <i>Bioresource Technology</i> , 2010 , 101, 9577-86	11	46
129	Garden and food waste co-fermentation for biohydrogen and biomethane production in a two-step hyperthermophilic-mesophilic process. <i>Bioresource Technology</i> , 2019 , 278, 180-186	11	45
128	Boosting dark fermentation with co-cultures of extreme thermophiles for biohydrogen production from garden waste. <i>Bioresource Technology</i> , 2016 , 219, 132-138	11	44
127	Design of experiments to assess pre-treatment and co-digestion strategies that optimize biogas production from macroalgae <i>Gracilaria vermiculophylla</i> . <i>Bioresource Technology</i> , 2014 , 162, 323-30	11	43
126	Biological decolorization of xanthene dyes by anaerobic granular biomass. <i>Biodegradation</i> , 2012 , 23, 725-37	4.1	43
125	Effect of sulfate on methanogenic communities that degrade unsaturated and saturated long-chain fatty acids (LCFA). <i>Environmental Microbiology</i> , 2009 , 11, 68-80	5.2	43
124	Molecular monitoring of microbial diversity in expanded granular sludge bed (EGSB) reactors treating oleic acid. <i>FEMS Microbiology Ecology</i> , 2002 , 41, 95-103	4.3	43
123	Bioaugmentation of sewage sludge with <i>Trametes versicolor</i> in solid-phase biopiles produces degradation of pharmaceuticals and affects microbial communities. <i>Environmental Science & Technology</i> , 2012 , 46, 12012-20	10.3	42
122	Biohydrogen production from arabinose and glucose using extreme thermophilic anaerobic mixed cultures. <i>Biotechnology for Biofuels</i> , 2012 , 5, 6	7.8	41

121	Toxicity of long chain fatty acids towards acetate conversion by <i>Methanosaeta concilii</i> and <i>Methanosarcina mazei</i> . <i>Microbial Biotechnology</i> , 2016 , 9, 514-8	6.3	40
120	<i>Moorella stamsii</i> sp. nov., a new anaerobic thermophilic hydrogenogenic carboxydrotroph isolated from digester sludge. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 4072-4076	2.2	39
119	Inoculum type response to different pHs on biohydrogen production from l-arabinose, a component of hemicellulosic biopolymers. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 1744-1751	6.7	38
118	Virtual laboratories in (bio)chemical engineering education. <i>Education for Chemical Engineers</i> , 2010 , 5, e22-e27	2.4	38
117	Flocs vs granules: Differentiation by fractal dimension. <i>Water Research</i> , 1997 , 31, 1227-1231	12.5	38
116	Conversion of C _n -Unsaturated into C _{n-2} -Saturated LCFA Can Occur Uncoupled from Methanogenesis in Anaerobic Bioreactors. <i>Environmental Science & Technology</i> , 2016 , 50, 3082-90	10.3	37
115	Enrichment of anaerobic syngas-converting bacteria from thermophilic bioreactor sludge. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 590-7	4.3	37
114	Biochemical methane potential of raw and pre-treated meat-processing wastes. <i>Bioresource Technology</i> , 2013 , 129, 519-25	11	36
113	Ciprofloxacin wastewater treated by UVA photocatalysis: contribution of irradiated TiO ₂ and ZnO nanoparticles on the final toxicity as assessed by <i>Vibrio fischeri</i> . <i>RSC Advances</i> , 2016 , 6, 95494-95503	3.7	36
112	<i>Rhodococcus opacus</i> B4: a promising bacterium for production of biofuels and biobased chemicals. <i>AMB Express</i> , 2016 , 6, 35	4.1	35
111	Long-term acclimation of anaerobic sludges for high-rate methanogenesis from LCFA. <i>Biomass and Bioenergy</i> , 2014 , 67, 297-303	5.3	35
110	1,3-Propanediol production from glycerol by a newly isolated <i>Trichococcus</i> strain. <i>Microbial Biotechnology</i> , 2012 , 5, 573-8	6.3	34
109	Modulation of crude glycerol fermentation by <i>Clostridium pasteurianum</i> DSM 525 towards the production of butanol. <i>Biomass and Bioenergy</i> , 2014 , 71, 134-143	5.3	31
108	Methane production from oleate: assessing the bioaugmentation potential of <i>Syntrophomonas zehnderi</i> . <i>Water Research</i> , 2010 , 44, 4940-7	12.5	31
107	Continuous fungal treatment of non-sterile veterinary hospital effluent: pharmaceuticals removal and microbial community assessment. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2401-15	5.7	30
106	Synthesis, characterization and application of magnetic carbon materials as electron shuttles for the biological and chemical reduction of the azo dye Acid Orange 10. <i>Applied Catalysis B: Environmental</i> , 2017 , 212, 175-184	21.8	29
105	Operation of an anaerobic filter and an EGSB reactor for the treatment of an oleic acid-based effluent: influence of inoculum quality. <i>Process Biochemistry</i> , 2002 , 37, 1025-1031	4.8	29
104	Influence of physico-chemical properties of porous microcarriers on the adhesion of an anaerobic consortium. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2000 , 24, 181-186	4.2	29

103	Quantitative image analysis for the characterization of microbial aggregates in biological wastewater treatment: a review. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5887-912	5.1	28
102	Biohythane production from marine macroalgae <i>Sargassum</i> sp. coupling dark fermentation and anaerobic digestion. <i>Bioresource Technology</i> , 2015 , 190, 251-6	11	28
101	Fate of aniline and sulfanilic acid in UASB bioreactors under denitrifying conditions. <i>Water Research</i> , 2011 , 45, 191-200	12.5	28
100	Anaerobic granular sludge as a biocatalyst for 1,3-propanediol production from glycerol in continuous bioreactors. <i>Bioresource Technology</i> , 2014 , 155, 28-33	11	27
99	Principal component analysis and quantitative image analysis to predict effects of toxics in anaerobic granular sludge. <i>Bioresource Technology</i> , 2009 , 100, 1180-5	11	27
98	Investigating bacterial community changes and organic substrate degradation in microbial fuel cells operating on real human urine. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 897-904	4.2	26
97	Inoculum acclimation to oleate promotes the conversion of olive mill wastewater to methane. <i>Energy</i> , 2011 , 36, 2138-2141	7.9	26
96	Anaerobic microbial LCFA degradation in bioreactors. <i>Water Science and Technology</i> , 2008 , 57, 439-44	2.2	25
95	Effect of different carbon materials as electron shuttles in the anaerobic biotransformation of nitroanilines. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1194-202	4.9	25
94	Effect of arabinose concentration on dark fermentation hydrogen production using different mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4527-4532	6.7	24
93	Development of image analysis techniques as a tool to detect and quantify morphological changes in anaerobic sludge: II. Application to a granule deterioration process triggered by contact with oleic acid. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 194-9	4.9	24
92	Degradation of oleic acid in anaerobic filters: the effect of inoculum acclimatization and biomass recirculation. <i>Water Environment Research</i> , 2001 , 73, 612-21	2.8	24
91	Biochemical methane potential of brewery by-products. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 435-440	4.3	23
90	Strategies to suppress hydrogen-consuming microorganisms affect macro and micro scale structure and microbiology of granular sludge. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1766-75	4.9	22
89	Insight into the Role of Facultative Bacteria Stimulated by Microaeration in Continuous Bioreactors Converting LCFA to Methane. <i>Environmental Science & Technology</i> , 2018 , 52, 6497-6507	10.3	22
88	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanoparticles against Ciprofloxacin. <i>Catalysts</i> , 2020 , 10, 234	4	21
87	Activated sludge process monitoring through in situ near-infrared spectral analysis. <i>Water Science and Technology</i> , 2008 , 57, 1643-50	2.2	20
86	Anaerobic biological fermentation of urine as a strategy to enhance the performance of a microbial electrolysis cell (MEC). <i>Renewable Energy</i> , 2019 , 139, 936-943	8.1	19

85	Quantitative image analysis as a diagnostic tool for monitoring structural changes of anaerobic granular sludge during detergent shock loads. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 60-8	4.9	19
84	UV/TiO ₂ photocatalytic degradation of xanthene dyes. <i>Photochemistry and Photobiology</i> , 2013 , 89, 33-9	3.6	17
83	Anaerobic biodegradability of Category 2 animal by-products: methane potential and inoculum source. <i>Bioresource Technology</i> , 2012 , 124, 276-82	11	17
82	Microbial and operational response of an anaerobic fixed bed digester to oleic acid overloads. <i>Process Biochemistry</i> , 2001 , 37, 387-394	4.8	17
81	Inhibition Studies with 2-Bromoethanesulfonate Reveal a Novel Syntrophic Relationship in Anaerobic Oleate Degradation. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	17
80	Endurance of methanogenic archaea in anaerobic bioreactors treating oleate-based wastewater. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 2211-8	5.7	16
79	Kinetic and stoichiometric parameters estimation in a nitrifying bubble column through "in-situ" pulse respirometry. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 94-102	4.9	16
78	Development of image analysis techniques as a tool to detect and quantify morphological changes in anaerobic sludge: I. Application to a granulation process. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 184-93	4.9	16
77	A New Device to Select Microcarriers for Biomass Immobilization: Application to an Anaerobic Consortium. <i>Water Environment Research</i> , 1999 , 71, 209-217	2.8	16
76	Influence of carbon anode properties on performance and microbiome of Microbial Electrolysis Cells operated on urine. <i>Electrochimica Acta</i> , 2018 , 267, 122-132	6.7	15
75	Quantitative image analysis as a diagnostic tool for identifying structural changes during a revival process of anaerobic granular sludge. <i>Water Research</i> , 2007 , 41, 1473-80	12.5	15
74	Perspectives on carbon materials as powerful catalysts in continuous anaerobic bioreactors. <i>Water Research</i> , 2016 , 101, 441-447	12.5	15
73	Enrichment of syngas-converting communities from a multi-orifice baffled bioreactor. <i>Microbial Biotechnology</i> , 2018 , 11, 639-646	6.3	15
72	Kinetic and stoichiometric characterization of a fixed biofilm reactor by pulse respirometry. <i>Journal of Biotechnology</i> , 2012 , 157, 173-9	3.7	14
71	In situ pulse respirometric methods for the estimation of kinetic and stoichiometric parameters in aerobic microbial communities. <i>Biochemical Engineering Journal</i> , 2011 , 58-59, 12-19	4.2	14
70	Valorization of lubricant-based wastewater for bacterial neutral lipids production: Growth-linked biosynthesis. <i>Water Research</i> , 2016 , 101, 17-24	12.5	13
69	Staged and non-staged anaerobic filters: Microbial activity segregation, hydrodynamic behaviour and performance. <i>Journal of Chemical Technology and Biotechnology</i> , 1998 , 73, 99-108	3.5	13
68	Removal of Erythrosine B dye from water effluents using crop waste pumpkin seed hulls as adsorbent. <i>Desalination and Water Treatment</i> , 2016 , 57, 22585-22608		12

67	Posttreatment of olive mill wastewater by immobilized TiO ₂ photocatalysis. <i>Photochemistry and Photobiology</i> , 2013 , 89, 545-51	3.6	12
66	Advanced monitoring of high-rate anaerobic reactors through quantitative image analysis of granular sludge and multivariate statistical analysis. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 445-56	4.9	12
65	Biodegradability and toxicity of styrene in the anaerobic digestion process. <i>Biotechnology Letters</i> , 2000 , 22, 1477-1481	3	12
64	EFFECT OF METHANOGENIC INHIBITORS, INOCULA TYPE, AND TEMPERATURE ON BIOHYDROGEN PRODUCTION FROM FOOD COMPONENTS. <i>Environmental Engineering and Management Journal</i> , 2008 , 7, 531-536	0.6	12
63	Influence of nutritional and operational parameters on the production of butanol or 1,3-propanediol from glycerol by a mutant <i>Clostridium pasteurianum</i> . <i>New Biotechnology</i> , 2017 , 34, 59-67	6.4	11
62	Enrichment of Anaerobic Syngas-Converting Communities and Isolation of a Novel Carboxydrotrophic Strain JM. <i>Frontiers in Microbiology</i> , 2020 , 11, 58	5.7	11
61	Response surface design to study the influence of inoculum, particle size and inoculum to substrate ratio on the methane production from <i>Ulex</i> sp.. <i>Renewable Energy</i> , 2016 , 96, 1071-1077	8.1	11
60	CO ₂ Dissolution and Design Aspects of a Multiorifice Oscillatory Baffled Column. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17303-17316	3.9	11
59	Bioelectrochemical systems (BESs) towards conversion of carbon monoxide/syngas: A mini-review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110358	16.2	11
58	UV/TiO ₂ photocatalytic reactor for real textile wastewaters treatment. <i>Water Science and Technology</i> , 2014 , 70, 1670-6	2.2	10
57	Improvement of Biomethane Production from Sewage Sludge in Co-digestion with Glycerol and Waste Frying Oil, Using a Design of Experiments. <i>Bioenergy Research</i> , 2018 , 11, 763-771	3.1	9
56	Morphology and physiology of anaerobic granular sludge exposed to an organic solvent. <i>Journal of Hazardous Materials</i> , 2009 , 167, 393-8	12.8	9
55	A chemometric tool to monitor high-rate anaerobic granular sludge reactors during load and toxic disturbances. <i>Biochemical Engineering Journal</i> , 2010 , 53, 38-43	4.2	9
54	Anodic oxidation of oleate for wastewater treatment. <i>Desalination</i> , 2005 , 185, 351-355	10.3	9
53	On the independence of hydrogen production from methanogenic suppressor in olive mill wastewater. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6402-6406	6.7	8
52	Image analysis, methanogenic activity measurements, and molecular biological techniques to monitor granular sludge from an EGSB reactor fed with oleic acid. <i>Water Science and Technology</i> , 2003 , 47, 181-188	2.2	8
51	Hydrogen Production by <i>Clostridium cellulolyticum</i> a Cellulolytic and Hydrogen-Producing Bacteria Using Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , 2019 , 10, 827-837	3.2	8
50	Aromatic Amines Sources, Environmental Impact and Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2015 , 297-346	0.8	7

49	Knowledge-based fuzzy system for diagnosis and control of an integrated biological wastewater treatment process. <i>Water Science and Technology</i> , 2006 , 53, 313-20	2.2	7
48	Syntrophic Degradation of Fatty Acids by Methanogenic Communities 2012 , 127-142		6
47	Ciprofloxacin, diclofenac, ibuprofen and 17 β -ethinylestradiol differentially affect the activity of acetogens and methanogens in anaerobic communities. <i>Ecotoxicology</i> , 2020 , 29, 866-875	2.9	6
46	Anaerobic degradation of oleic acid by suspended and granular sludge: identification of palmitic acid as a key intermediate. <i>Water Science and Technology</i> , 2002 , 45, 139-44	2.2	6
45	Management of Microbial Resources in the Environment 2013 ,		5
44	A new method to study interactions between biomass and packing material in anaerobic filters. <i>Biotechnology Letters</i> , 1998 , 12, 277-283		5
43	Intensification of methane production from waste frying oil in a biogas-lift bioreactor. <i>Renewable Energy</i> , 2021 , 168, 1141-1148	8.1	5
42	Comparative Analysis of Carbon Monoxide Tolerance among Thermoanaerobacter Species. <i>Frontiers in Microbiology</i> , 2016 , 7, 1330	5.7	5
41	Electrooxidation as the anaerobic pre-treatment of fats: oleate conversion using RuO ₂ and IrO ₂ based anodes. <i>Bioresource Technology</i> , 2008 , 99, 8207-11	11	4
40	Tailoring Carbon Nanotubes to Enhance their Efficiency as Electron Shuttle on the Biological Removal of Acid Orange 10 Under Anaerobic Conditions. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
39	Microbially-charged electrochemical fuel for energy storage in a redox flow cell. <i>Journal of Power Sources</i> , 2020 , 445, 227307	8.9	4
38	Hydrogenotrophic activity under increased H ₂ /CO ₂ pressure: Effect on methane production and microbial community. <i>Journal of Biotechnology</i> , 2015 , 208, S57	3.7	3
37	Determination of Kinetic and Stoichiometric Parameters of Pseudomonas putida F1 by Chemostat and In Situ Pulse Respirometry. <i>Chemical Product and Process Modeling</i> , 2009 , 4,	1.1	3
36	Volatile Fatty Acids (VFA) Production from Wastewaters with High Salinity Influence of pH, Salinity and Reactor Configuration. <i>Fermentation</i> , 2021 , 7, 303	4.7	3
35	Propionate Production from Carbon Monoxide by Synthetic Cocultures of Acetobacterium wieringae and Propionigenic Bacteria. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0283920	4.8	3
34	Anaerobic Digestion of Lipid-Rich Waste. <i>Springer Protocols</i> , 2015 , 221-236	0.3	2
33	MOSCA: An Automated Pipeline for Integrated Metagenomics and Metatranscriptomics Data Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 183-191	0.4	2
32	Influence of up-flow velocity on the performance of an anaerobic filter under oleic acid overloads. <i>Biotechnology Letters</i> , 2001 , 23, 1833-1839	3	2

31	EDITORIAL - A SPECIAL ISSUE DEDICATED TO WASTEWATER TREATMENT FOR RECOVERING WATER, ENERGY, NUTRIENTS AND VALUABLE PRODUCTS. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 293-294	0.6	2
30	OLIVE MILL WASTEWATER AS A RENEWABLE RESOURCE. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 319-325	0.6	2
29	Multi-Walled Carbon Nanotubes Enhance Methanogenesis from Diverse Organic Compounds in Anaerobic Sludge and River Sediments. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8184	2.6	2
28	Effect of Sub-Stoichiometric Fe(III) Amounts on LCFA Degradation by Methanogenic Communities. <i>Microorganisms</i> , 2020 , 8,	4.9	2
27	Effect of Sulfate on Carbon Monoxide Conversion by a Thermophilic Syngas-Fermenting Culture Dominated by a Species. <i>Frontiers in Microbiology</i> , 2020 , 11, 588468	5.7	2
26	Detoxification of Ciprofloxacin in an Anaerobic Bioprocess Supplemented with Magnetic Carbon Nanotubes: Contribution of Adsorption and Biodegradation Mechanisms. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
25	UPIMAPI, reCOgnizer and KEGGCharter: Bioinformatics tools for functional annotation and visualization of (meta)-omics datasets.. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 1798-1810	6.8	2
24	Harnessing the Power of PCR Molecular Fingerprinting Methods and Next Generation Sequencing for Understanding Structure and Function in Microbial Communities. <i>Methods in Molecular Biology</i> , 2017 , 1620, 225-248	1.4	1
23	Multiple and flexible roles of facultative anaerobic bacteria in microaerophilic oleate degradation. <i>Environmental Microbiology</i> , 2020 , 22, 3650-3659	5.2	1
22	Study and valorisation of wastewaters generated in the production of bacterial nanocellulose. <i>Biodegradation</i> , 2020 , 31, 47-56	4.1	1
21	Spatial Multicriteria GIS-Based Analysis to Anaerobic Biogas Plant Location for Dairy Waste and Wastewater Treatment and Energy Recovery (Barcelos, NW Portugal). <i>Lecture Notes in Electrical Engineering</i> , 2019 , 626-632	0.2	1
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