

Maria Ascensã£o Reis

List of Publications by Year in descending order

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264
papers

15,898
citations

14655

66
h-index

21540

114
g-index

270
all docs

270
docs citations

270
times ranked

11999
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in enhanced biological phosphorus removal: From micro to macro scale. <i>Water Research</i> , 2007, 41, 2271-2300.	11.3	998
2	Advances in bacterial exopolysaccharides: from production to biotechnological applications. <i>Trends in Biotechnology</i> , 2011, 29, 388-398.	9.3	607
3	Recent Advances and Challenges towards Sustainable Polyhydroxyalkanoate (PHA) Production. <i>Bioengineering</i> , 2017, 4, 55.	3.5	478
4	Strategies for the development of a side stream process for polyhydroxyalkanoate (PHA) production from sugar cane molasses. <i>Journal of Biotechnology</i> , 2007, 130, 411-421.	3.8	333
5	Optimization of polyhydroxybutyrate production by mixed cultures submitted to aerobic dynamic feeding conditions. <i>Biotechnology and Bioengineering</i> , 2004, 87, 145-160.	3.3	327
6	Effect of hydrogen sulfide on growth of sulfate reducing bacteria. <i>Biotechnology and Bioengineering</i> , 1992, 40, 593-600.	3.3	304
7	Denitrifying phosphorus removal: Linking the process performance with the microbial community structure. <i>Water Research</i> , 2007, 41, 4383-4396.	11.3	302
8	Strategies for PHA production by mixed cultures and renewable waste materials. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 615-628.	3.6	281
9	Polyhydroxyalkanoate (PHA) production by a mixed microbial culture using sugar molasses: Effect of the influent substrate concentration on culture selection. <i>Water Research</i> , 2010, 44, 3419-3433.	11.3	258
10	Recent Advances in Polyhydroxyalkanoate Production by Mixed Aerobic Cultures: From the Substrate to the Final Product. <i>Macromolecular Bioscience</i> , 2006, 6, 885-906.	4.1	249
11	Production of polyhydroxyalkanoates by mixed microbial cultures. <i>Bioprocess and Biosystems Engineering</i> , 2003, 25, 377-385.	3.4	247
12	Mixed culture polyhydroxyalkanoate (PHA) production from volatile fatty acid (VFA)-rich streams: Effect of substrate composition and feeding regime on PHA productivity, composition and properties. <i>Journal of Biotechnology</i> , 2011, 151, 66-76.	3.8	244
13	Synthesis of polyhydroxyalkanoates from different short-chain fatty acids by mixed cultures submitted to aerobic dynamic feeding. <i>Journal of Biotechnology</i> , 2006, 122, 226-238.	3.8	238
14	Supported liquid membranes using ionic liquids: study of stability and transport mechanisms. <i>Journal of Membrane Science</i> , 2004, 242, 197-209.	8.2	229
15	Characterization of an extracellular polysaccharide produced by a <i>Pseudomonas</i> strain grown on glycerol. <i>Bioresource Technology</i> , 2009, 100, 859-865.	9.6	186
16	Competition between nitrate and nitrite reduction in denitrification by <i>Pseudomonas fluorescens</i> . <i>Biotechnology and Bioengineering</i> , 1995, 46, 476-484.	3.3	178
17	Model for carbon metabolism in biological phosphorus removal processes based on in vivo ¹³ C-NMR labelling experiments. <i>Water Research</i> , 1996, 30, 2128-2138.	11.3	170
18	Emulsifying behaviour and rheological properties of the extracellular polysaccharide produced by <i>Pseudomonas oleovorans</i> grown on glycerol byproduct. <i>Carbohydrate Polymers</i> , 2009, 78, 549-556.	10.2	164

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19	Biowaste biorefinery in Europe: opportunities and research & development needs. <i>New Biotechnology</i> , 2015, 32, 100-108.	4.4	162
20	Photodegradation kinetics and transformation products of ketoprofen, diclofenac and atenolol in pure water and treated wastewater. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 516-527.	12.4	157
21	Nitrite inhibition of denitrification by <i>Pseudomonas fluorescens</i> . <i>Biotechnology and Bioengineering</i> , 1995, 46, 194-201.	3.3	156
22	Methods for detection and visualization of intracellular polymers stored by polyphosphate-accumulating microorganisms. <i>Journal of Microbiological Methods</i> , 2002, 51, 1-18.	1.6	141
23	Link between microbial composition and carbon substrate-uptake preferences in a PHA-storing community. <i>ISME Journal</i> , 2013, 7, 1-12.	9.8	138
24	Assessing the removal of pharmaceuticals and personal care products in a full-scale activated sludge plant. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1818-1827.	5.3	132
25	Removal of heavy metals from drinking water supplies through the ion exchange membrane bioreactor. <i>Desalination</i> , 2006, 199, 405-407.	8.2	131
26	A review of the biotransformations of priority pharmaceuticals in biological wastewater treatment processes. <i>Water Research</i> , 2021, 188, 116446.	11.3	131
27	Incorporating microbial ecology into the metabolic modelling of polyphosphate accumulating organisms and glycogen accumulating organisms. <i>Water Research</i> , 2010, 44, 4992-5004.	11.3	130
28	Engineering aspects of microbial exopolysaccharide production. <i>Bioresource Technology</i> , 2017, 245, 1674-1683.	9.6	129
29	Fucose-containing exopolysaccharide produced by the newly isolated <i>Enterobacter</i> strain A47 DSM 23139. <i>Carbohydrate Polymers</i> , 2011, 83, 159-165.	10.2	126
30	Strategies for efficiently selecting PHA producing mixed microbial cultures using complex feedstocks: Feast and famine regime and uncoupled carbon and nitrogen availabilities. <i>New Biotechnology</i> , 2017, 37, 69-79.	4.4	125
31	Metabolism and ecological niche of <i>Tetrasphaera</i> and <i>Ca. Accumilibacter</i> in enhanced biological phosphorus removal. <i>Water Research</i> , 2017, 122, 159-171.	11.3	124
32	Response of a three-stage process for PHA production by mixed microbial cultures to feedstock shift: impact on polymer composition. <i>New Biotechnology</i> , 2014, 31, 276-288.	4.4	120
33	Molecular weight and thermal properties of polyhydroxyalkanoates produced from fermented sugar molasses by open mixed cultures. <i>Journal of Biotechnology</i> , 2010, 147, 172-179.	3.8	119
34	Photosynthetic mixed culture polyhydroxyalkanoate (PHA) production from individual and mixed volatile fatty acids (VFAs): Substrate preferences and co-substrate uptake. <i>Journal of Biotechnology</i> , 2014, 185, 19-27.	3.8	119
35	Mercury removal from water streams through the ion exchange membrane bioreactor concept. <i>Journal of Hazardous Materials</i> , 2014, 264, 65-70.	12.4	115
36	Recovery of polyhydroxybutyrate (PHB) from <i>Cupriavidus necator</i> biomass by solvent extraction with 1,2- ϵ -propylene carbonate. <i>Engineering in Life Sciences</i> , 2009, 9, 454-461.	3.6	114

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37	Analysis of 65 pharmaceuticals and personal care products in 5 wastewater treatment plants in Portugal using a simplified analytical methodology. <i>Water Science and Technology</i> , 2010, 62, 2862-2871.	2.5	114
38	MiDAS 4: A global catalogue of full-length 16S rRNA gene sequences and taxonomy for studies of bacterial communities in wastewater treatment plants. <i>Nature Communications</i> , 2022, 13, 1908.	12.8	114
39	Production of polyhydroxyalkanoates from spent coffee grounds oil obtained by supercritical fluid extraction technology. <i>Bioresource Technology</i> , 2014, 157, 360-363.	9.6	110
40	Mixed culture polyhydroxyalkanoates production from sugar molasses: The use of a 2-stage CSTR system for culture selection. <i>Bioresource Technology</i> , 2010, 101, 7112-7122.	9.6	109
41	Conversion of cheese whey into poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Haloferax mediterranei</i> . <i>New Biotechnology</i> , 2016, 33, 224-230.	4.4	109
42	The impact of aeration on the competition between polyphosphate accumulating organisms and glycogen accumulating organisms. <i>Water Research</i> , 2014, 66, 296-307.	11.3	107
43	Exopolysaccharides enriched in rare sugars: bacterial sources, production, and applications. <i>Frontiers in Microbiology</i> , 2015, 6, 288.	3.5	107
44	Ecotoxicity of ketoprofen, diclofenac, atenolol and their photolysis byproducts in zebrafish (<i>Danio rerio</i>). <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 103-110.	8.0	103
45	Development and characterization of bilayer films of FucoPol and chitosan. <i>Carbohydrate Polymers</i> , 2016, 147, 8-15.	10.2	101
46	Removal of inorganic anions from drinking water supplies by membrane bioprocesses. <i>Reviews in Environmental Science and Biotechnology</i> , 2004, 3, 361-380.	8.1	100
47	Characterization of polyhydroxyalkanoates synthesized from microbial mixed cultures and of their nanobiocomposites with bacterial cellulose nanowhiskers. <i>New Biotechnology</i> , 2014, 31, 364-376.	4.4	97
48	Design, synthesis and biological evaluation of novel isoniazid derivatives with potent antitubercular activity. <i>European Journal of Medicinal Chemistry</i> , 2014, 81, 119-138.	5.5	97
49	Production of polyhydroxyalkanoates from fermented sugar cane molasses by a mixed culture enriched in glycogen accumulating organisms. <i>Journal of Biotechnology</i> , 2010, 145, 253-263.	3.8	95
50	Effect of carbon source on the formation of polyhydroxyalkanoates (PHA) by a phosphate-accumulating mixed culture. <i>Enzyme and Microbial Technology</i> , 1998, 22, 662-671.	3.2	91
51	The relationship between mixed microbial culture composition and PHA production performance from fermented molasses. <i>New Biotechnology</i> , 2014, 31, 257-263.	4.4	90
52	Modelling the population dynamics and metabolic diversity of organisms relevant in anaerobic/anoxic/aerobic enhanced biological phosphorus removal processes. <i>Water Research</i> , 2010, 44, 4473-4486.	11.3	89
53	Drinking Water Denitrification Using A Novel Ion-exchange Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2000, 34, 1557-1562.	10.0	88
54	Simultaneous removal of perchlorate and nitrate from drinking water using the ion exchange membrane bioreactor concept. <i>Water Research</i> , 2006, 40, 231-240.	11.3	88

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55	The link of feast-phase dissolved oxygen (DO) with substrate competition and microbial selection in PHA production. <i>Water Research</i> , 2017, 112, 269-278.	11.3	88
56	Microbial characterisation of polyhydroxyalkanoates storing populations selected under different operating conditions using a cell-sorting RT-PCR approach. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 351-360.	3.6	85
57	Metabolic versatility in full-scale wastewater treatment plants performing enhanced biological phosphorus removal. <i>Water Research</i> , 2013, 47, 7032-7041.	11.3	84
58	The Influence of Process Parameters on the Characteristics of Polyhydroxyalkanoates Produced by Mixed Cultures. <i>Macromolecular Bioscience</i> , 2008, 8, 355-366.	4.1	83
59	Polyhydroxyalkanoates production by a mixed photosynthetic consortium of bacteria and algae. <i>Bioresource Technology</i> , 2013, 132, 146-153.	9.6	83
60	Mathematical modelling of a mixed culture cultivation process for the production of polyhydroxybutyrate. <i>Biotechnology and Bioengineering</i> , 2005, 92, 209-222.	3.3	80
61	Assessing the diurnal variability of pharmaceutical and personal care products in a full-scale activated sludge plant. <i>Environmental Pollution</i> , 2011, 159, 2359-2367.	7.5	79
62	Cheese whey integrated valorisation: Production, concentration and exploitation of carboxylic acids for the production of polyhydroxyalkanoates by a fed-batch culture. <i>Chemical Engineering Journal</i> , 2018, 336, 47-53.	12.7	78
63	Kinetics of nitrate and perchlorate removal and biofilm stratification in an ion exchange membrane bioreactor. <i>Water Research</i> , 2012, 46, 4556-4568.	11.3	75
64	Valorization of fatty acids-containing wastes and byproducts into short- and medium-chain length polyhydroxyalkanoates. <i>New Biotechnology</i> , 2016, 33, 206-215.	4.4	75
65	The effect of substrate competition on the metabolism of polyphosphate accumulating organisms (PAOs). <i>Water Research</i> , 2014, 64, 149-159.	11.3	71
66	Optical and spectroscopic methods for biofilm examination and monitoring. <i>Reviews in Environmental Science and Biotechnology</i> , 2002, 1, 227-251.	8.1	70
67	Uncoupling effect of nitrite during denitrification by <i>Pseudomonas fluorescens</i> : An in vivo ³¹ P-NMR study. <i>Biotechnology and Bioengineering</i> , 1996, 52, 176-182.	3.3	68
68	Removal of Bromate from Drinking Water Using the Ion Exchange Membrane Bioreactor Concept. <i>Environmental Science & Technology</i> , 2008, 42, 7702-7708.	10.0	68
69	A novel pathway for mineralization of the thiocarbamate herbicide molinate by a defined bacterial mixed culture. <i>Environmental Microbiology</i> , 2003, 5, 944-953.	3.8	67
70	Denitrifying capabilities of <i>Tetrasphaera</i> and their contribution towards nitrous oxide production in enhanced biological phosphorus removal processes. <i>Water Research</i> , 2018, 137, 262-272.	11.3	67
71	Arsenic removal from drinking water through a hybrid ion exchange membrane “Coagulation process. <i>Separation and Purification Technology</i> , 2011, 83, 137-143.	7.9	66
72	Two-dimensional fluorometry coupled with artificial neural networks: A novel method for on-line monitoring of complex biological processes. <i>Biotechnology and Bioengineering</i> , 2001, 72, 297-306.	3.3	65

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73	Microbial polysaccharide-based membranes: Current and future applications. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	63
74	Recovery of amorphous polyhydroxybutyrate granules from <i>Cupriavidus necator</i> cells grown on used cooking oil. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 117-123.	7.5	62
75	Antimicrobial and Antioxidant Performance of Various Essential Oils and Natural Extracts and Their Incorporation into Biowaste Derived Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Layers Made from Electrospun Ultrathin Fibers. <i>Nanomaterials</i> , 2019, 9, 144.	4.1	62
76	Analysis of the microbial community structure and function of a laboratory scale enhanced biological phosphorus removal reactor. <i>Environmental Microbiology</i> , 2002, 4, 559-569.	3.8	61
77	Optimisation of glycogen quantification in mixed microbial cultures. <i>Bioresource Technology</i> , 2012, 118, 518-525.	9.6	61
78	Determination of the extraction kinetics for the quantification of polyhydroxyalkanoate monomers in mixed microbial systems. <i>Process Biochemistry</i> , 2013, 48, 1626-1634.	3.7	61
79	Effect of temperature on the dynamic and steady-shear rheology of a new microbial extracellular polysaccharide produced from glycerol byproduct. <i>Carbohydrate Polymers</i> , 2010, 79, 981-988.	10.2	60
80	Metabolic modelling of polyhydroxyalkanoate copolymers production by mixed microbial cultures. <i>BMC Systems Biology</i> , 2008, 2, 59.	3.0	59
81	Preparation and Characterization of Electrospun Food Biopackaging Films of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Derived From Fruit Pulp Biowaste. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	3.9	57
82	Chitin-glucan complex production by <i>Komagataella pastoris</i> : Downstream optimization and product characterization. <i>Carbohydrate Polymers</i> , 2015, 130, 455-464.	10.2	55
83	Effect of Operational Parameters in the Continuous Anaerobic Fermentation of Cheese Whey on Titters, Yields, Productivities, and Microbial Community Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1400-1407.	6.7	55
84	Succinic acid production from glycerol by <i>Actinobacillus succinogenes</i> using dimethylsulfoxide as electron acceptor. <i>New Biotechnology</i> , 2014, 31, 133-139.	4.4	53
85	Community Structure Evolution and Enrichment of Glycogen-Accumulating Organisms Producing Polyhydroxyalkanoates from Fermented Molasses. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4676-4686.	3.1	52
86	Flux balance analysis of mixed microbial cultures: Application to the production of polyhydroxyalkanoates from complex mixtures of volatile fatty acids. <i>Journal of Biotechnology</i> , 2012, 162, 336-345.	3.8	51
87	Improving succinic acid production by <i>Actinobacillus succinogenes</i> from raw industrial carob pods. <i>Bioresource Technology</i> , 2016, 218, 491-497.	9.6	51
88	Exopolysaccharide production by a marine <i>Pseudoalteromonas</i> sp. strain isolated from Madeira Archipelago ocean sediments. <i>New Biotechnology</i> , 2016, 33, 460-466.	4.4	51
89	Demonstration of the adhesive properties of the medium-chain-length polyhydroxyalkanoate produced by <i>Pseudomonas chlororaphis</i> subsp. <i>aurantiaca</i> from glycerol. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 1144-1151.	7.5	50
90	Metabolic Pathway for Propionate Utilization by Phosphorus-Accumulating Organisms in Activated Sludge: ¹³ C Labeling and In Vivo Nuclear Magnetic Resonance. <i>Applied and Environmental Microbiology</i> , 2003, 69, 241-251.	3.1	49

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91	Assessing the abundance and activity of denitrifying polyphosphate accumulating organisms through molecular and chemical techniques. <i>Water Science and Technology</i> , 2010, 61, 2061-2068.	2.5	49
92	Microbial population analysis of nutrient removal-related organisms in membrane bioreactors. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2171-2180.	3.6	49
93	Controlled Production of Exopolysaccharides from <i>Enterobacter</i> A47 as a Function of Carbon Source with Demonstration of Their Film and Emulsifying Abilities. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 641-657.	2.9	49
94	Nitrate removal in a closed marine system through the ion exchange membrane bioreactor. <i>Journal of Hazardous Materials</i> , 2009, 166, 428-434.	12.4	47
95	Mechanism of charged pollutants removal in an ion exchange membrane bioreactor: Drinking water denitrification. <i>Biotechnology and Bioengineering</i> , 2000, 71, 245-254.	3.3	46
96	Stabilization of antimicrobial silver nanoparticles by a polyhydroxyalkanoate obtained from mixed bacterial culture. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 103-110.	7.5	46
97	Biodegradable films produced from the bacterial polysaccharide FucoPol. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 111-116.	7.5	46
98	Removal of mono-valent oxyanions from water in an ion exchange membrane bioreactor: Influence of membrane permselectivity. <i>Water Research</i> , 2008, 42, 1785-1795.	11.3	45
99	Rheological and morphological characterization of the culture broth during exopolysaccharide production by <i>Enterobacter</i> sp.. <i>Carbohydrate Polymers</i> , 2010, 81, 758-764.	10.2	45
100	Glucose Metabolism and Kinetics of Phosphorus Removal by the Fermentative Bacterium <i>Microlunatus phosphovorans</i> . <i>Applied and Environmental Microbiology</i> , 1999, 65, 3920-3928.	3.1	45
101	Kinetics of production and characterization of the fucose-containing exopolysaccharide from <i>Enterobacter</i> A47. <i>Journal of Biotechnology</i> , 2011, 156, 261-267.	3.8	44
102	Characterization of biodegradable films from the extracellular polysaccharide produced by <i>Pseudomonas oleovorans</i> grown on glycerol byproduct. <i>Carbohydrate Polymers</i> , 2011, 83, 1582-1590.	10.2	44
103	Preparation and Characterization of Films Based on a Natural P(3HB)/mcl-PHA Blend Obtained through the Co-culture of <i>Cupriavidus Necator</i> and <i>Pseudomonas Citronellolis</i> in Apple Pulp Waste. <i>Bioengineering</i> , 2020, 7, 34.	3.5	44
104	Removal of trace mono-valent inorganic pollutants in an ion exchange membrane bioreactor: analysis of transport rate in a denitrification process. <i>Journal of Membrane Science</i> , 2003, 217, 269-284.	8.2	43
105	Survival strategies of polyphosphate accumulating organisms and glycogen accumulating organisms under conditions of low organic loading. <i>Bioresource Technology</i> , 2014, 172, 290-296.	9.6	43
106	Online monitoring of P(3HB) produced from used cooking oil with near-infrared spectroscopy. <i>Journal of Biotechnology</i> , 2015, 194, 1-9.	3.8	43
107	Multivariate statistically-based modelling of a membrane bioreactor for wastewater treatment using 2D fluorescence monitoring data. <i>Water Research</i> , 2012, 46, 3623-3636.	11.3	42
108	Biodegradation of clofibric acid and identification of its metabolites. <i>Journal of Hazardous Materials</i> , 2012, 241-242, 182-189.	12.4	42

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109	Metabolic modelling of full-scale enhanced biological phosphorus removal sludge. <i>Water Research</i> , 2014, 66, 283-295.	11.3	41
110	Dynamic change of pH in acidogenic fermentation of cheese whey towards polyhydroxyalkanoates production: Impact on performance and microbial population. <i>New Biotechnology</i> , 2017, 37, 108-116.	4.4	41
111	Long-term operation of a reactor enriched in <i>Accumulibacter</i> clade I DPAOs: performance with nitrate, nitrite and oxygen. <i>Water Science and Technology</i> , 2011, 63, 352-359.	2.5	40
112	Study of the interactive effect of temperature and pH on exopolysaccharide production by <i>Enterobacter</i> A47 using multivariate statistical analysis. <i>Bioresource Technology</i> , 2012, 119, 148-156.	9.6	40
113	Valorization of raw brewers'™ spent grain through the production of volatile fatty acids. <i>New Biotechnology</i> , 2020, 57, 4-10.	4.4	40
114	Microbial community analysis with a high PHA storage capacity. <i>Water Science and Technology</i> , 2006, 54, 183-188.	2.5	39
115	Production of yeast chitin-glucan complex from biodiesel industry byproduct. <i>Process Biochemistry</i> , 2012, 47, 1670-1675.	3.7	39
116	Production of a new exopolysaccharide (EPS) by <i>Pseudomonas oleovorans</i> NRRL B-14682 grown on glycerol. <i>Process Biochemistry</i> , 2010, 45, 297-305.	3.7	38
117	The impact of pH control on the volumetric productivity of mixed culture PHA production from fermented molasses. <i>Engineering in Life Sciences</i> , 2014, 14, 143-152.	3.6	38
118	Combined Strategies to Boost Polyhydroxyalkanoate Production from Fruit Waste in a Three-Stage Pilot Plant. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8270-8279.	6.7	38
119	Membrane bioreactors for the removal of anionic micropollutants from drinking water. <i>Current Opinion in Biotechnology</i> , 2004, 15, 463-468.	6.6	37
120	Robustness of sludge enriched with short SBR cycles for biological nutrient removal. <i>Bioresource Technology</i> , 2009, 100, 1969-1976.	9.6	36
121	Production of bacterial nanobiocomposites of polyhydroxyalkanoates derived from waste and bacterial nanocellulose by the electrospinning enabling melt compounding method. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	36
122	Bioaugmentation of membrane bioreactor with <i>Achromobacter denitrificans</i> strain PR1 for enhanced sulfamethoxazole removal in wastewater. <i>Science of the Total Environment</i> , 2019, 648, 44-55.	8.0	36
123	Solution properties of an exopolysaccharide from a <i>Pseudomonas</i> strain obtained using glycerol as sole carbon source. <i>Carbohydrate Polymers</i> , 2009, 78, 526-532.	10.2	35
124	Rheological studies of the fucose-rich exopolysaccharide FucoPol. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 611-617.	7.5	35
125	Metabolic modeling of the substrate competition among multiple VFAs for PHA production by mixed microbial cultures. <i>Journal of Biotechnology</i> , 2018, 280, 62-69.	3.8	34
126	Demonstration of the cryoprotective properties of the fucose-containing polysaccharide FucoPol. <i>Carbohydrate Polymers</i> , 2020, 245, 116500.	10.2	34

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127	Two-dimensional fluorescence as a fingerprinting tool for monitoring wastewater treatment systems. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 985-992.	3.2	33
128	Characterization of medium chain length polyhydroxyalkanoate produced from olive oil deodorizer distillate. <i>International Journal of Biological Macromolecules</i> , 2016, 82, 243-248.	7.5	33
129	Hydrogen metabolism in <i>Desulfovibrio desulfuricans</i> strain New Jersey (NCIMB 8313) – comparative study with <i>D. vulgaris</i> and <i>D. gigas</i> species. <i>Anaerobe</i> , 2002, 8, 325-332.	2.1	32
130	Effect of dark/light periods on the polyhydroxyalkanoate production of a photosynthetic mixed culture. <i>Bioresource Technology</i> , 2013, 148, 474-479.	9.6	32
131	Improvement on the yield of polyhydroxyalkanotes production from cheese whey by a recombinant <i>Escherichia coli</i> strain using the proton suicide methodology. <i>Enzyme and Microbial Technology</i> , 2014, 55, 151-158.	3.2	32
132	Conversion of fat-containing waste from the margarine manufacturing process into bacterial polyhydroxyalkanoates. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 68-73.	7.5	32
133	Silver nanocomposites based on the bacterial fucose-rich polysaccharide secreted by <i>Enterobacter A47</i> for wound dressing applications: Synthesis, characterization and in vitro bioactivity. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 959-969.	7.5	32
134	Microbial production of medium-chain length polyhydroxyalkanoates. <i>Process Biochemistry</i> , 2021, 102, 393-407.	3.7	32
135	The storage compounds associated with <i>Tetrasphaera</i> PAO metabolism and the relationship between diversity and P removal. <i>Water Research</i> , 2021, 204, 117621.	11.3	32
136	In situ corrosion control in industrial water systems. <i>Biodegradation</i> , 2000, 11, 441-448.	3.0	31
137	Biosorption of Heavy Metals by the Bacterial Exopolysaccharide FucoPol. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6708.	2.5	31
138	Production of medium-chain-length polyhydroxyalkanoates by <i>Pseudomonas chlororaphis</i> subsp. <i>aurantiaca</i> : Cultivation on fruit pulp waste and polymer characterization. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 85-92.	7.5	31
139	Biological treatment of propanil and 3,4-dichloroaniline: Kinetic and microbiological characterisation. <i>Water Research</i> , 2010, 44, 4980-4991.	11.3	30
140	An integrated process for mixed culture production of 3-hydroxyhexanoate-rich polyhydroxyalkanoates from fruit waste. <i>Chemical Engineering Journal</i> , 2022, 427, 131908.	12.7	30
141	Characterization of Representative Enzymes from a Sulfate Reducing Bacterium Implicated in the Corrosion of Steel. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 414-421.	2.1	29
142	Ion Exchange Membrane Bioreactor for Selective Removal of Nitrate from Drinking Water: Control of Ion Fluxes and Process Performance. <i>Biotechnology Progress</i> , 2002, 18, 296-302.	2.6	29
143	Real-time monitoring of membrane bioreactors with 2D-fluorescence data and statistically based models. <i>Water Science and Technology</i> , 2011, 63, 1381-1388.	2.5	29
144	Microbial population response to changes of the operating conditions in a dynamic nutrient-removal sequencing batch reactor. <i>Bioprocess and Biosystems Engineering</i> , 2005, 28, 199-209.	3.4	28

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145	The effect of carbon source on the biological reduction of ionic mercury. <i>Journal of Hazardous Materials</i> , 2009, 165, 1040-1048.	12.4	28
146	Functional redundancy ensures performance robustness in 3-stage PHA-producing mixed cultures under variable feed operation. <i>New Biotechnology</i> , 2018, 40, 207-217.	4.4	28
147	A novel metabolic-ASM model for full-scale biological nutrient removal systems. <i>Water Research</i> , 2020, 171, 115373.	11.3	28
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