

Belã©n Rodelas

List of Publications by Year in descending order

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102
papers

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168829

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104
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3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of PHA-Accumulating Bacterial Communities Fed with Lipid-Rich Liquid Effluents from Fish-Canning Industries. <i>Polymers</i> , 2022, 14, 1396.	2.0	10
2	Understanding the microbial trends in a nitrification reactor fed with primary settled municipal wastewater. <i>Separation and Purification Technology</i> , 2021, 256, 117828.	3.9	5
3	Salinity is the major driver of the global eukaryotic community structure in fish-canning wastewater treatment plants. <i>Journal of Environmental Management</i> , 2021, 290, 112623.	3.8	10
4	Fate of pharmaceutically active compounds in a pilot-scale A2O integrated fixed-film activated sludge (IFAS) process treating municipal wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105398.	3.3	20
5	Insights into the removal of pharmaceutically active compounds from sewage sludge by two-stage mesophilic anaerobic digestion. <i>Science of the Total Environment</i> , 2021, 789, 147869.	3.9	22
6	Revealing the dissimilar structure of microbial communities in different WWTPs that treat fish-canning wastewater with different NaCl content. <i>Journal of Water Process Engineering</i> , 2021, 44, 102328.	2.6	16
7	Influence of operation parameters on the shaping of the denitrification communities in full-scale municipal sewage treatment plants. <i>Journal of Water Process Engineering</i> , 2020, 37, 101465.	2.6	3
8	Evaluation of the Abundance of Fungi in Wastewater Treatment Plants Using Quantitative PCR (qPCR). <i>Methods in Molecular Biology</i> , 2020, 2065, 79-94.	0.4	4
9	Abundance of total and metabolically active <i>Candidatus Microthrix</i> and fungal populations in three full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 232, 26-34.	4.2	27
10	Linking microbial diversity and population dynamics to the removal efficiency of pharmaceutically active compounds (PhACs) in an anaerobic/anoxic/aerobic (A2O) system. <i>Chemosphere</i> , 2019, 233, 828-842.	4.2	24
11	Linking nitrous oxide emissions to population dynamics of nitrifying and denitrifying prokaryotes in four full-scale wastewater treatment plants. <i>Chemosphere</i> , 2018, 200, 57-66.	4.2	25
12	Microalgae-Bacteria Consortia for the Removal of Phenolic Compounds from Industrial Wastewaters. <i>Nanotechnology in the Life Sciences</i> , 2018, , 135-184.	0.4	4
13	Removal of anti-inflammatory/analgesic pharmaceuticals from urban wastewater in a pilot-scale A2O system: Linking performance and microbial population dynamics to operating variables. <i>Science of the Total Environment</i> , 2018, 643, 1481-1492.	3.9	34
14	Assessing the abundance of fungal populations in a full-scale membrane bioreactor (MBR) treating urban wastewater by using quantitative PCR (qPCR). <i>Journal of Environmental Management</i> , 2018, 223, 1-8.	3.8	26
15	Full-scale photobioreactor for biotreatment of olive washing water: Structure and diversity of the microalgae-bacteria consortium. <i>Bioresource Technology</i> , 2017, 238, 389-398.	4.8	34
16	Impact of solar radiation exposure on phyllosphere bacterial community of red-pigmented baby leaf lettuce. <i>Food Microbiology</i> , 2017, 66, 77-85.	2.1	30
17	Study of bacterial community structure and diversity during the maturation process of a therapeutic peloid. <i>Applied Clay Science</i> , 2016, 132-133, 59-67.	2.6	17
18	The ratio of metabolically active versus total Mycolata populations triggers foaming in a membrane bioreactor. <i>Water Research</i> , 2016, 92, 208-217.	5.3	29

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19	Community structure, population dynamics and diversity of fungi in a full-scale membrane bioreactor (MBR) for urban wastewater treatment. <i>Water Research</i> , 2016, 105, 507-519.	5.3	60
20	Influence of salinity on fungal communities in a submerged fixed bed bioreactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2016, 285, 562-572.	6.6	29
21	Interlinkages between bacterial populations dynamics and the operational parameters in a moving bed membrane bioreactor treating urban sewage. <i>Water Research</i> , 2016, 88, 796-807.	5.3	15
22	454-Pyrosequencing Analysis of Bacterial Communities from Autotrophic Nitrogen Removal Bioreactors Utilizing Universal Primers: Effect of Annealing Temperature. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	14
23	Linking operation parameters and environmental variables to population dynamics of Mycolata in a membrane bioreactor. <i>Bioresource Technology</i> , 2015, 180, 318-329.	4.8	18
24	Effect of salinity on nitrification efficiency and structure of ammonia-oxidizing bacterial communities in a submerged fixed bed bioreactor. <i>Chemical Engineering Journal</i> , 2015, 266, 233-240.	6.6	74
25	Nitrogen removal in a moving bed membrane bioreactor for municipal sewage treatment: Community differentiation in attached biofilm and suspended biomass. <i>Chemical Engineering Journal</i> , 2015, 277, 209-218.	6.6	30
26	Bacterial community structure of a coastal area in Kandalaksha Bay, White Sea, Russia: possible relation to tidal hydrodynamics. <i>Annals of Microbiology</i> , 2015, 65, 443-453.	1.1	11
27	Draft Genome Sequence of the Naphthalene Degradar <i>Herbaspirillum</i> sp. Strain RV1423. <i>Genome Announcements</i> , 2014, 2, .	0.8	8
28	Exploring the links between population dynamics of total and active bacteria and the variables influencing a full-scale membrane bioreactor (MBR). <i>Bioresource Technology</i> , 2014, 162, 103-114.	4.8	15
29	Microbial community dynamics in a submerged fixed bed bioreactor during biological treatment of saline urban wastewater. <i>Ecological Engineering</i> , 2014, 71, 126-132.	1.6	55
30	Quantitative response of nitrifying and denitrifying communities to environmental variables in a full-scale membrane bioreactor. <i>Bioresource Technology</i> , 2014, 169, 126-133.	4.8	31
31	Bioremediation of diesel-polluted soil using biostimulation as post-treatment after oxidation with Fenton-like reagents: Assays in a pilot plant. <i>Science of the Total Environment</i> , 2013, 445-446, 347-355.	3.9	92
32	Prevalence of Nitrosomonas cluster 7 populations in the ammonia-oxidizing community of a submerged membrane bioreactor treating urban wastewater under different operation conditions. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 901-910.	1.7	12
33	Enzymatic activities in a moving bed membrane bioreactor for real urban wastewater treatment: Effect of operational conditions. <i>Ecological Engineering</i> , 2013, 61, 23-33.	1.6	20
34	Linking hydrolytic activities to variables influencing a submerged membrane bioreactor (MBR) treating urban wastewater under real operating conditions. <i>Water Research</i> , 2013, 47, 66-78.	5.3	20
35	Comparative analysis of the enzyme activities and the bacterial community structure based on the aeration source supplied to an MBR to treat urban wastewater. <i>Journal of Environmental Management</i> , 2013, 128, 471-479.	3.8	15
36	Biodegradation of olive washing wastewater pollutants by highly efficient phenol-degrading strains selected from adapted bacterial community. <i>International Biodeterioration and Biodegradation</i> , 2013, 82, 192-198.	1.9	22

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37	Archaeal Diversity in Biofilm Technologies Applied to Treat Urban and Industrial Wastewater: Recent Advances and Future Prospects. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18572-18598.	1.8	32
38	Comparative analysis of the bacterial diversity in a lab-scale moving bed biofilm reactor (MBBR) applied to treat urban wastewater under different operational conditions. <i>Bioresource Technology</i> , 2012, 121, 119-126.	4.8	81
39	Effect of salinity on enzymatic activities in a submerged fixed bed biofilm reactor for municipal sewage treatment. <i>Bioresource Technology</i> , 2012, 121, 312-319.	4.8	60
40	Bacterial community structure and enzyme activities in a membrane bioreactor (MBR) using pure oxygen as an aeration source. <i>Bioresource Technology</i> , 2012, 103, 87-94.	4.8	49
41	Biofilm formation and microbial activity in a biofilter system in the presence of MTBE, ETBE and TAME. <i>Chemosphere</i> , 2011, 85, 616-624.	4.2	15
42	Characterization of bacterial communities exposed to Cr(III) and Pb(II) in submerged fixed-bed biofilms for groundwater treatment. <i>Ecotoxicology</i> , 2011, 20, 779-792.	1.1	16
43	Analysis of microbial communities developed on the fouling layers of a membrane-coupled anaerobic bioreactor applied to wastewater treatment. <i>Bioresource Technology</i> , 2011, 102, 4618-4627.	4.8	98
44	Submerged filter biofilm formation by nitrate-contaminated groundwater microbiota. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 1113-1121.	0.9	2
45	Influence of linear alkylbenzene sulfonate (LAS) on the structure of Alphaproteobacteria, Actinobacteria, and Acidobacteria communities in a soil microcosm. <i>Environmental Science and Pollution Research</i> , 2010, 17, 779-790.	2.7	29
46	Metabolic characterization of a strain (BM90) of <i>Delftia tsuruhatensis</i> showing highly diversified capacity to degrade low molecular weight phenols. <i>Biodegradation</i> , 2010, 21, 475-489.	1.5	55
47	Microbial enzymatic activities in a pilot-scale MBR experimental plant under different working conditions. <i>Bioresource Technology</i> , 2010, 101, 696-704.	4.8	52
48	Structure of archaeal communities in membrane-bioreactor and submerged-biofilter wastewater treatment plants. <i>Bioresource Technology</i> , 2010, 101, 2096-2105.	4.8	37
49	Microbial community structure and dynamics in a pilot-scale submerged membrane bioreactor aerobically treating domestic wastewater under real operation conditions. <i>Science of the Total Environment</i> , 2009, 407, 3994-4003.	3.9	60
50	Response of soil enzymes to Linear Alkylbenzene Sulfonate (LAS) addition in soil microcosms. <i>Soil Biology and Biochemistry</i> , 2009, 41, 69-76.	4.2	13
51	Effect of linear alkylbenzene sulfonates on the growth of aerobic heterotrophic cultivable bacteria isolated from an agricultural soil. <i>Ecotoxicology</i> , 2008, 17, 549-557.	1.1	15
52	Production of chitinolytic enzymes by a strain (BM17) of <i>Paenibacillus pabuli</i> isolated from crab shells samples collected in the east sector of central Tyrrhenian Sea. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 27-31.	3.6	18
53	Dominance of sphingomonads in a copper-exposed biofilm community for groundwater treatment. <i>Microbiology (United Kingdom)</i> , 2007, 153, 325-337.	0.7	40
54	Influence of temperature on microbial colonisation of clayey schist as a support media of a submerged filter for groundwater denitrification. <i>Water Science and Technology</i> , 2007, 55, 165-172.	1.2	4

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55	Effect of the concentration of suspended solids on the enzymatic activities and biodiversity of a submerged membrane bioreactor for aerobic treatment of domestic wastewater. <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1441-1451.	1.7	36
56	Removal of organic load from olive washing water by an aerated submerged biofilter and profiling of the bacterial community involved in the process. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 784-91.	0.9	6
57	Analysis of community composition of biofilms in a submerged filter system for the removal of ammonia and phenol from industrial wastewater. <i>Biochemical Society Transactions</i> , 2006, 34, 165-168.	1.6	22
58	Influence of pesticides and herbicides presence on phosphatase activity and selected bacterial microbiota of a natural lake system. <i>Ecotoxicology</i> , 2006, 15, 487-493.	1.1	23
59	Growth and denitrifying activity of <i>Xanthobacter autotrophicus</i> CECT 7064 in the presence of selected pesticides. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 563-567.	1.7	37
60	TGGE analysis of the diversity of ammonia-oxidizing and denitrifying bacteria in submerged filter biofilms for the treatment of urban wastewater. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 393-400.	1.7	42
61	Selection and identification of bacteria isolated from waste crude oil with polycyclic aromatic hydrocarbons removal capacities. <i>Systematic and Applied Microbiology</i> , 2006, 29, 244-252.	1.2	110
62	Denitrifying activity of <i>Xanthobacter autotrophicus</i> strains isolated from a submerged fixed-film reactor. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 680-685.	1.7	12
63	Production of amino acids by <i>Azotobacter vinelandii</i> and <i>Azotobacter chroococcum</i> with phenolic compounds as sole carbon source under diazotrophic and adiazotrophic conditions. <i>Amino Acids</i> , 2005, 28, 421-425.	1.2	8
64	Liberation of amino acids by heterotrophic nitrogen fixing bacteria. <i>Amino Acids</i> , 2005, 28, 363-367.	1.2	47
65	Identification of Bacteria Isolated from an Oligotrophic Lake with Pesticide Removal Capacities. <i>Ecotoxicology</i> , 2005, 14, 299-312.	1.1	66
66	<i>Paenibacillus wynnii</i> sp. nov., a novel species harbouring the <i>nifH</i> gene, isolated from Alexander Island, Antarctica. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2093-2099.	0.8	46
67	GROWTH AND NITRITE AND NITROUS OXIDE ACCUMULATION OF <i>PARACOCCLUS DENITRIFICANS</i> ATCC 19367 IN THE PRESENCE OF SELECTED PESTICIDES. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1993.	2.2	24
68	Response of soil microbiota to the addition of 3,3'-diaminobenzidine. <i>Applied Soil Ecology</i> , 2003, 23, 119-126.	2.1	10
69	Effects of culture conditions on the production of polyhydroxyalkanoates by <i>Azotobacter chroococcum</i> H23 in media containing a high concentration of alpechín (wastewater from olive oil) Tj ETQq1 1 0.784314 mgBT /Over	1.7	14
70	D,L-Hydantoinase activity of an <i>Ochrobactrum anthropi</i> strain. <i>Journal of Applied Microbiology</i> , 2002, 92, 1028-1034.	1.4	20
71	Production of B-group vitamins by two <i>Azotobacter</i> strains with phenolic compounds as sole carbon source under diazotrophic and adiazotrophic conditions. <i>Journal of Applied Microbiology</i> , 2000, 89, 486-493.	1.4	75
72	The regulatory locus <i>cinRI</i> in <i>Rhizobium leguminosarum</i> controls a network of quorum-sensing loci. <i>Molecular Microbiology</i> , 2000, 37, 81-97.	1.2	209

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73	Effects of benzidine and benzidine analogues on the growth and nitrogenase activity of <i>Azotobacter</i> . <i>Applied Soil Ecology</i> , 2000, 14, 183-190.	2.1	12
74	Analysis of Quorum-Sensing-Dependent Control of Rhizosphere-Expressed (<i>rhiz</i>) Genes in <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> . <i>Journal of Bacteriology</i> , 1999, 181, 3816-3823.	1.0	134
75	Production of B-group vitamins by two <i>Rhizobium</i> strains in chemically defined media. <i>Journal of Applied Microbiology</i> , 1999, 86, 851-858.	1.4	32
76	Influence of <i>Rhizobium/Azotobacter</i> and <i>Rhizobium/Azospirillum</i> combined inoculation on mineral composition of faba bean (<i>Vicia faba</i> L.). <i>Biology and Fertility of Soils</i> , 1999, 29, 165-169.	2.3	50
77	Effect of some herbicides on the production of lysine by <i>Azotobacter chroococcum</i> . <i>Amino Acids</i> , 1999, 17, 165-173.	1.2	3
78	Response of Faba bean (<i>Vicia faba</i> L.) to combined inoculation with <i>Azotobacter</i> and <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> . <i>Applied Soil Ecology</i> , 1999, 12, 51-59.	2.1	28
79	Influence of the insecticides profenofos and diazinon on the microbial activities of <i>Azospirillum brasilense</i> . <i>Chemosphere</i> , 1999, 39, 945-957.	4.2	15
80	Title is missing!. <i>Ecotoxicology</i> , 1998, 7, 43-47.	1.1	13
81	Symbiotic effectiveness and bacteriocin production by <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> isolated from agricultural soils in Spain. <i>Applied Soil Ecology</i> , 1998, 8, 51-60.	2.1	14
82	Effects of the fungicide Captan on some functional groups of soil microflora. <i>Applied Soil Ecology</i> , 1998, 7, 245-255.	2.1	67
83	Effect of the herbicide simazine on vitamin production by <i>Azotobacter chroococcum</i> and <i>Azotobacter vinelandii</i> . <i>Applied Soil Ecology</i> , 1997, 6, 187-193.	2.1	14
84	Effect of Simazine on the production of lysine and methionine by <i>Azotobacter chroococcum</i> and <i>Azotobacter vinelandii</i> . <i>Amino Acids</i> , 1997, 12, 249-255.	1.2	6
85	Production of pantothenic acid and thiamine by <i>Azotobacter vinelandii</i> in a chemically defined medium and a dialysed soil medium. <i>Biology and Fertility of Soils</i> , 1996, 22, 131-135.	2.3	18
86	Studies on the effects of the herbicide simazine on microflora of four agricultural soils. <i>Environmental Toxicology and Chemistry</i> , 1996, 15, 1115-1118.	2.2	9
87	Production of polyhydroxyalkanoates by <i>Azotobacter chroococcum</i> H23 in wastewater from olive oil mills (alpechin). <i>International Biodeterioration and Biodegradation</i> , 1996, 38, 271-276.	1.9	31
88	Production of pantothenic acid and thiamine by <i>Azotobacter vinelandii</i> in a chemically defined medium and a dialysed soil medium. <i>Biology and Fertility of Soils</i> , 1996, 22, 131-135.	2.3	4
89	STUDIES ON THE EFFECTS OF THE HERBICIDE SIMAZINE ON MICROFLORA OF FOUR AGRICULTURAL SOILS—Short Communication. <i>Environmental Toxicology and Chemistry</i> , 1996, 15, 1115.	2.2	10
90	Production of polyhydroxybutyrate by <i>Azotobacter chroococcum</i> H23 in chemically defined medium and alpechin medium. <i>Journal of Applied Bacteriology</i> , 1995, 78, 413-418.	1.1	24

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91	Production of amino acids by free-living heterotrophic nitrogen-fixing bacteria. <i>Amino Acids</i> , 1995, 8, 15-21.	1.2	12
92	Effect of chlorpyrifos on soil microbial activity. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 187-192.	2.2	52
93	Effects of the fungicides maneb and mancozeb on soil enzyme activities. <i>Toxicological and Environmental Chemistry</i> , 1995, 52, 243-248.	0.6	2
94	Effect of chlorpyrifos on soil microbial activity. , 1995, 14, 187.		6
95	Effects of fungicides maneb and mancozeb on soil microbial populations. <i>Toxicological and Environmental Chemistry</i> , 1994, 43, 123-132.	0.6	10
96	Diflubenzuron and the biological activity of <i>Azospirillum brasilense</i> . <i>Toxicological and Environmental Chemistry</i> , 1994, 42, 241-247.	0.6	3
97	Effects of the herbicide alachlor on soil microbial activities. <i>Ecotoxicology</i> , 1994, 3, 4-10.	1.1	24
98	Production of amino acids by <i>Azospirillum Brasilense</i> in chemically-defined medium amended with malate, gluconate or fructose. <i>Soil Biology and Biochemistry</i> , 1994, 26, 301-303.	4.2	6
99	Production of vitamins by <i>Azospirillum brasilense</i> in chemically-defined media. <i>Plant and Soil</i> , 1993, 153, 97-101.	1.8	47
100	Studies on the effects of the insecticides phorate and malathion on soil microorganisms. <i>Environmental Toxicology and Chemistry</i> , 1993, 12, 1209-1214.	2.2	21
101	Studies on the effects of a chlorinated hydrocarbon insecticide, lindane, on soil microorganisms. <i>Chemosphere</i> , 1993, 27, 2261-2270.	4.2	13
102	Response of soil microflora to the insecticides fonofos and parathion. <i>Toxicological and Environmental Chemistry</i> , 1993, 39, 139-145.	0.6	4