

Beln Rodelas

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102
papers

2,555
citations

29
h-index

46
g-index

104
ext. papers

2,798
ext. citations

6.1
avg, IF

4.67
L-index

#	Paper	IF	Citations
102	The regulatory locus cinRI in <i>Rhizobium leguminosarum</i> controls a network of quorum-sensing loci. <i>Molecular Microbiology</i> , 2000 , 37, 81-97	4.1	185
101	Analysis of quorum-sensing-dependent control of rhizosphere-expressed (rhi) genes in <i>Rhizobium leguminosarum</i> bv. <i>viciae</i> . <i>Journal of Bacteriology</i> , 1999 , 181, 3816-23	3.5	125
100	Selection and identification of bacteria isolated from waste crude oil with polycyclic aromatic hydrocarbons removal capacities. <i>Systematic and Applied Microbiology</i> , 2006 , 29, 244-52	4.2	93
99	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, 4618-27	11	89
98	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, 347-55	10.2	80
97	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, 119-26	11	71
96	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, 486-93	4.7	63
95	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	14.7	60
94	Identification of bacteria isolated from an oligotrophic lake with pesticide removal capacities. <i>Ecotoxicology</i> , 2005 , 14, 299-312	2.9	60
93	Effects of culture conditions on the production of polyhydroxyalkanoates by <i>Azotobacter chroococcum</i> H23 in media containing a high concentration of alpechB (wastewater from olive oil mills) as primary carbon source. <i>Journal of Biotechnology</i> , 2002 , 97, 125-31	3.7	57
92	Effects of the fungicide Captan on some functional groups of soil microflora. <i>Applied Soil Ecology</i> , 1998 , 7, 245-255	5	56
91	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	10.2	52
90	Microbial community dynamics in a submerged fixed bed bioreactor during biological treatment of saline urban wastewater. <i>Ecological Engineering</i> , 2014 , 71, 126-132	3.9	51
89	Effect of salinity on enzymatic activities in a submerged fixed bed biofilm reactor for municipal sewage treatment. <i>Bioresource Technology</i> , 2012 , 121, 312-9	11	51
88	Microbial enzymatic activities in a pilot-scale MBR experimental plant under different working conditions. <i>Bioresource Technology</i> , 2010 , 101, 696-704	11	50
87	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	11	45
86	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	12.5	45

85	Effect of chlorpyrifos on soil microbial activity. <i>Environmental Toxicology and Chemistry</i> , 1995 , 14, 187-193	3.8	44
84	Influence of Rhizobium/Azotobacter and Rhizobium/Azospirillum combined inoculation on mineral composition of faba bean (<i>Vicia faba</i> L.). <i>Biology and Fertility of Soils</i> , 1999 , 29, 165-169	6.1	42
83	Production of vitamins by <i>Azospirillum brasilense</i> in chemically-defined media. <i>Plant and Soil</i> , 1993 , 153, 97-101	4.2	39
82	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	5.7	38
81	Structure of archaeal communities in membrane-bioreactor and submerged-biofilter wastewater treatment plants. <i>Bioresource Technology</i> , 2010 , 101, 2096-105	11	36
80	Liberation of amino acids by heterotrophic nitrogen fixing bacteria. <i>Amino Acids</i> , 2005 , 28, 363-7	3.5	36
79	Dominance of sphingomonads in a copper-exposed biofilm community for groundwater treatment. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 325-337	2.9	35
78	<i>Paenibacillus wynnii</i> sp. nov., a novel species harbouring the nifH gene, isolated from Alexander Island, Antarctica. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005 , 55, 2093-2099 ^{2.2}		34
77	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, 1441-51	5.7	33
76	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, 475-89	4.1	32
75	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, 563-7	5.7	31
74	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, 18572-98	6.3	29
73	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	4.8	29
72	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	4.7	28
71	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	14.7	27
70	Quantitative response of nitrifying and denitrifying communities to environmental variables in a full-scale membrane bioreactor. <i>Bioresource Technology</i> , 2014 , 169, 126-133	11	27
69	Influence of salinity on fungal communities in a submerged fixed bed bioreactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2016 , 285, 562-572	14.7	26
68	Removal of anti-inflammatory/analgesic pharmaceuticals from urban wastewater in a pilot-scale AO system: Linking performance and microbial population dynamics to operating variables. <i>Science of the Total Environment</i> , 2018 , 643, 1481-1492	10.2	24

67	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, 779-90	5.1	24
66	The ratio of metabolically active versus total Mycolata populations triggers foaming in a membrane bioreactor. <i>Water Research</i> , 2016 , 92, 208-17	12.5	24
65	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	11	23
64	Growth and nitrite and nitrous oxide accumulation of <i>Paracoccus denitrificans</i> ATCC 19367 in the presence of selected pesticides. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 1993-7	3.8	21
63	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	5	21
62	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, 165-8	5.1	20
61	Impact of solar radiation exposure on phyllosphere bacterial community of red-pigmented baby leaf lettuce. <i>Food Microbiology</i> , 2017 , 66, 77-85	6	19
60	D,L-Hydantoinase activity of an <i>Ochrobactrum anthropi</i> strain. <i>Journal of Applied Microbiology</i> , 2002 , 92, 1028-34	4.7	19
59	Production of poly- γ -hydroxybutyrate by <i>Azotobacter chroococcum</i> H23 in chemically defined medium and alpechin medium. <i>Journal of Applied Bacteriology</i> , 1995 , 78, 413-418		19
58	Studies on the effects of the insecticides phorate and malathion on soil microorganisms. <i>Environmental Toxicology and Chemistry</i> , 1993 , 12, 1209-1214	3.8	19
57	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	7.9	18
56	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	3.9	18
55	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	12.5	18
54	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	4.8	18
53	Effects of the herbicide alachlor on soil microbial activities. <i>Ecotoxicology</i> , 1994 , 3, 4-10	2.9	18
52	Influence of pesticides and herbicides presence on phosphatase activity and selected bacterial microbiota of a natural lake system. <i>Ecotoxicology</i> , 2006 , 15, 487-93	2.9	17
51	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	8.4	16
50	A Review on the Taxonomy and Possible Screening Traits of Plant Growth Promoting Rhizobacteria	55-80	16

49	Biofilm formation and microbial activity in a biofilter system in the presence of MTBE, ETBE and TAME. <i>Chemosphere</i> , 2011 , 85, 616-24	8.4	15
48	Abundance of total and metabolically active Candidatus Microthrix and fungal populations in three full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019 , 232, 26-34	8.4	14
47	Linking microbial diversity and population dynamics to the removal efficiency of pharmaceutically active compounds (PhACs) in an anaerobic/anoxic/aerobic (AO) system. <i>Chemosphere</i> , 2019 , 233, 828-842	8.4	14
46	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, 471-9	7.9	14
45	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	7.9	14
44	Effect of linear alkylbenzene sulfonates on the growth of aerobic heterotrophic cultivable bacteria isolated from an agricultural soil. <i>Ecotoxicology</i> , 2008 , 17, 549-57	2.9	14
43	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	12.5	13
42	Influence of the insecticides profenofos and diazinon on the microbial activities of <i>Azospirillum brasilense</i> . <i>Chemosphere</i> , 1999 , 39, 945-957	8.4	13
41	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	6.1	13
40	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, 892013	3	12
39	Response of soil enzymes to Linear Alkylbenzene Sulfonate (LAS) addition in soil microcosms. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 69-76	7.5	12
38	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, 103-14	11	11
37	Linking operation parameters and environmental variables to population dynamics of <i>Mycolata</i> in a membrane bioreactor. <i>Bioresource Technology</i> , 2015 , 180, 318-29	11	11
36	Characterization of bacterial communities exposed to Cr(III) and Pb(II) in submerged fixed-bed biofilms for groundwater treatment. <i>Ecotoxicology</i> , 2011 , 20, 779-92	2.9	11
35	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	5	11
34	Symbiotic effectiveness and bacteriocin production by <i>Rhizobium leguminosarum</i> bv. <i>viceae</i> isolated from agricultural soils in Spain. <i>Applied Soil Ecology</i> , 1998 , 8, 51-60	5	11
33	Denitrifying activity of <i>Xanthobacter autotrophicus</i> strains isolated from a submerged fixed-film reactor. <i>Applied Microbiology and Biotechnology</i> , 2005 , 68, 680-5	5.7	11
32	Production of amino acids by free-living heterotrophic nitrogen-fixing bacteria. <i>Amino Acids</i> , 1995 , 8, 15-21	3.5	11

31	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	5.2	11
30	Response of <i>Azospirillum brasilense</i> to the pesticides bromopropylate and methidathion on chemically defined media and dialysed-soil media. <i>Ecotoxicology</i> , 1998 , 7, 43-47	2.9	10
29	. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 1115	3.8	10
28	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	3.2	9
27	Prevalence of <i>Nitrosomonas</i> 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, 901-10	3.7	9
26	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	5	9
25	Studies on the effects of the herbicide simazine on microflora of four agricultural soils. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 1115-1118	3.8	9
24	Studies on the effects of a chlorinated hydrocarbon insecticide, lindane, on soil microorganisms. <i>Chemosphere</i> , 1993 , 27, 2261-2270	8.4	9
23	Response of soil microbiota to the addition of 3,3'-diaminobenzidine. <i>Applied Soil Ecology</i> , 2003 , 23, 119-126	5	8
22	Effects of fungicides maneb and mancozeb on soil microbial populations. <i>Toxicological and Environmental Chemistry</i> , 1994 , 43, 123-132	1.4	8
21	Draft Genome Sequence of the Naphthalene Degradier <i>Herbaspirillum</i> sp. Strain RV1423. <i>Genome Announcements</i> , 2014 , 2,		6
20	Effect of chlorpyrifos on soil microbial activity 1995 , 14, 187		6
19	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	3.3	6
18	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	3.5	5
17	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	7.5	5
16	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	6.8	5
15	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, 165-72	2.2	4
14	Response of soil microflora to the insecticides fonofos and parathion. <i>Toxicological and Environmental Chemistry</i> , 1993 , 39, 139-145	1.4	4

13	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	10.2	4
12	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, 421-5	3.5	3
11	Effect of some herbicides on the production of lysine by <i>Azotobacter chroococcum</i> . <i>Amino Acids</i> , 1999 , 17, 165-73	3.5	3
10	Understanding the microbial trends in a nitrification reactor fed with primary settled municipal wastewater. <i>Separation and Purification Technology</i> , 2021 , 256, 117828	8.3	3
9	Effects of the fungicides maneb and mancozeb on soil enzyme activities. <i>Toxicological and Environmental Chemistry</i> , 1995 , 52, 243-248	1.4	2
8	Diflubenzuron and the biological activity of <i>Azospirillum brasilense</i> . <i>Toxicological and Environmental Chemistry</i> , 1994 , 42, 241-247	1.4	2
7	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	6.7	2
6	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	7.9	2
5	Microalgae-Bacteria Consortia for the Removal of Phenolic Compounds from Industrial Wastewaters. <i>Nanotechnology in the Life Sciences</i> , 2018 , 135-184	1.1	2
4	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, 1113-21	2.3	1
3	Evaluation of the Abundance of Fungi in Wastewater Treatment Plants Using Quantitative PCR (qPCR). <i>Methods in Molecular Biology</i> , 2020 , 2065, 79-94	1.4	1
2	Production of pantothenic acid and thiamine by <i>Azotobacter vinelandii</i> in a chemically defined medium and a dialysed soil medium 1996 , 22, 131		1
1	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	6.7	