Raquel S Peixoto

List of Publications by Citations

107 papers	3,990 citations	38 h-index	60 g-index
120 ext. papers	5,242 ext. citations	4.9 avg, IF	5.5 L-index

#	Paper	IF	Citations
107	Bacterial diversity in rhizosphere soil from Antarctic vascular plants of Admiralty Bay, maritime Antarctica. *ISME Journal*, **2010**, 4, 989-1001	11.9	210
106	Beneficial Microorganisms for Corals (BMC): Proposed Mechanisms for Coral Health and Resilience. *Frontiers in Microbiology*, **2017**, 8, 341	5.7	202
105	Mangrove bacterial diversity and the impact of oil contamination revealed by pyrosequencing: bacterial proxies for oil pollution. *PLoS ONE*, **2011**, 6, e16943	3.7	177
104	Assessment of the microbial diversity of Brazilian kefir grains by PCR-DGGE and pyrosequencing analysis. *Food Microbiology*, **2012**, 31, 215-21	6	160
103	Microbiological, technological and therapeutic properties of kefir: a natural probiotic beverage. *Brazilian Journal of Microbiology*, **2013**, 44, 341-9	2.2	157
102	Marine probiotics: increasing coral resistance to bleaching through microbiome manipulation. *ISME Journal*, **2019**, 13, 921-936	11.9	133
101	Impact of next generation sequencing techniques in food microbiology. *Current Genomics*, **2014**, 15, 293-309	2.6	120
100	Water contamination by endocrine disruptors: Impacts, microbiological aspects and trends for environmental protection. *Environmental Pollution*, **2018**, 235, 546-559	9.3	118
99	Probiotic potential of selected lactic acid bacteria strains isolated from Brazilian kefir grains. *Journal of Dairy Science*, **2015**, 98, 3622-32	4	111
98	Bioremediation of Mangroves Impacted by Petroleum. *Water, Air, and Soil Pollution*, **2011**, 216, 329-350	2.6	93
97	Brazilian Microbiome Project: revealing the unexplored microbial diversity--challenges and prospects. *Microbial Ecology*, **2014**, 67, 237-41	4.4	87
96	Climate change affects key nitrogen-fixing bacterial populations on coral reefs. *ISME Journal*, **2014**, 8, 2272-9	11.9	87
95	Diversity of Bacteria in the Marine Sponge Aplysina fulva in Brazilian Coastal Waters. *Applied and Environmental Microbiology*, **2011**, 77, 6737-6737	4.8	78
94	Soil aggregation and bacterial community structure as affected by tillage and cover cropping in the Brazilian Cerrados. *Soil and Tillage Research*, **2006**, 90, 16-28	6.5	77
93	Petroleum-degrading enzymes: bioremediation and new prospects. *Enzyme Research*, **2011**, 2011, 475193	2.4	76
92	Diversity of bacteria in the marine sponge Aplysina fulva in Brazilian coastal waters. *Applied and Environmental Microbiology*, **2009**, 75, 3331-43	4.8	71
91	Diversity of thermophilic bacteria in raw, pasteurized and selectively-cultured milk, as assessed by culturing, PCR-DGGE and pyrosequencing. *Food Microbiology*, **2013**, 36, 103-11	6	69

90	Survival of gfp-tagged antagonistic bacteria in the rhizosphere of tomato plants and their effects on the indigenous bacterial community. *FEMS Microbiology Ecology*, **2006**, 56, 207-18	4.3	69
89	Bacterial community profiling of cryogenically ground samples from the apical and coronal root segments of teeth with apical periodontitis. *Journal of Endodontics*, **2009**, 35, 486-92	4.7	65
88	Microbiological and chemical characteristics of Brazilian kefir during fermentation and storage processes. *Journal of Dairy Science*, **2013**, 96, 4149-59	4	61
87	Impact of oil spills on coral reefs can be reduced by bioremediation using probiotic microbiota. *Scientific Reports*, **2015**, 5, 18268	4.9	59
86	Bacterial community profiles of endodontic abscesses from Brazilian and USA subjects as compared by denaturing gradient gel electrophoresis analysis. *Oral Microbiology and Immunology*, **2007**, 22, 14-8		58
85	Biodegradation of feather waste by extracellular keratinases and gelatinases from Bacillus spp. *World Journal of Microbiology and Biotechnology*, **2011**, 27, 1355-65	4.4	55
84	Diversity and antagonistic potential of Pseudomonas spp. associated to the rhizosphere of maize grown in a subtropical organic farm. *Soil Biology and Biochemistry*, **2006**, 38, 2434-2447	7.5	55
83	Plastic optical fiber-based biosensor platform for rapid cell detection. *Biosensors and Bioelectronics*, **2014**, 54, 661-6	11.8	54
82	Mixed plantations can promote microbial integration and soil nitrate increases with changes in the N cycling genes. *Soil Biology and Biochemistry*, **2013**, 66, 146-153	7.5	54
81	Keratinases and sulfide from Bacillus subtilis SLC to recycle feather waste. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 1259-69	4.4	49
80	Bacterial polycyclic aromatic hydrocarbon ring-hydroxylating dioxygenases (PAH-RHD) encoding genes in different soils from King George Bay, Antarctic Peninsula. *Applied Soil Ecology*, **2012**, 55, 1-9	5	47
79	Bacterial communities reflect the spatial variation in pollutant levels in Brazilian mangrove sediment. *Antonie Van Leeuwenhoek*, **2011**, 99, 341-54	2.1	45
78	Host-associated microbiomes drive structure and function of marine ecosystems. *PLoS Biology*, **2019**, 17, e3000533	9.7	44
77	The Use of a Combination of alkB Primers to Better Characterize the Distribution of Alkane-Degrading Bacteria. *PLoS ONE*, **2013**, 8, e66565	3.7	44
76	Biodegradation of petroleum hydrocarbons in hypersaline environments. *Brazilian Journal of Microbiology*, **2012**, 43, 865-72	2.2	44
75	Microbial diversity and anaerobic hydrocarbon degradation potential in an oil-contaminated mangrove sediment. *BMC Microbiology*, **2012**, 12, 186	4.5	42
74	Broadcast Spawning Coral Can Vertically Transfer its Associated Bacterial Core. *Frontiers in Microbiology*, **2017**, 8, 176	5.7	41
73	Microbial diversity of a Brazilian coastal region influenced by an upwelling system and anthropogenic activity. *PLoS ONE*, **2011**, 6, e16553	3.7	41

72	Use of rpoB and 16S rRNA genes to analyse bacterial diversity of a tropical soil using PCR and DGGE. *Letters in Applied Microbiology*, **2002**, 35, 316-20	2.9	41
71	A decade of land use contributes to changes in the chemistry, biochemistry and bacterial community structures of soils in the Cerrado. *Antonie Van Leeuwenhoek*, **2010**, 98, 403-13	2.1	39
70	18S rDNA sequences from microeukaryotes reveal oil indicators in mangrove sediment. *PLoS ONE*, **2010**, 5, e12437	3.7	38
69	Effect of sugarcane burning or green harvest methods on the Brazilian Cerrado soil bacterial community structure. *PLoS ONE*, **2013**, 8, e59342	3.7	37
68	Bioemulsifier production by Microbacterium sp. strains isolated from mangrove and their application to remove cadmiun and zinc from hazardous industrial residue. *Brazilian Journal of Microbiology*, **2010**, 41, 235-245	2.2	33
67	Heat Waves Are a Major Threat to Turbid Coral Reefs in Brazil. *Frontiers in Marine Science*, **2020**, 7,	4.5	32
66	Microbiological aspects of biodiesel and biodiesel/diesel blends biodeterioration. *International Biodeterioration and Biodegradation*, **2015**, 99, 102-114	4.8	32
65	Intercropped silviculture systems, a key to achieving soil fungal community management in eucalyptus plantations. *PLoS ONE*, **2015**, 10, e0118515	3.7	31
64	Coral Probiotics: Premise, Promise, Prospects. *Annual Review of Animal Biosciences*, **2021**, 9, 265-288	13.7	30
63	Coral Bacterial-Core Abundance and Network Complexity as Proxies for Anthropogenic Pollution. *Frontiers in Microbiology*, **2018**, 9, 833	5.7	29
62	Distribution of alkane-degrading bacterial communities in soils from King George Island, Maritime Antarctic. *European Journal of Soil Biology*, **2012**, 51, 37-44	2.9	29
61	On the use of denaturing gradient gel electrophoresis approach for bacterial identification in endodontic infections. *Clinical Oral Investigations*, **2007**, 11, 127-32	4.2	29
60	Soil bacterial community structure and soil quality in a slash-and-burn cultivation system in Southeastern Brazil. *Applied Soil Ecology*, **2008**, 38, 100-108	5	28
59	Revealing the bacterial profile of an anoxic-aerobic moving-bed biofilm reactor system treating a chemical industry wastewater. *International Biodeterioration and Biodegradation*, **2017**, 120, 152-160	4.8	26
58	A novel marine mesocosm facility to study global warming, water quality, and ocean acidification. *Ecology and Evolution*, **2015**, 5, 4555-66	2.8	25
57	Bioremediation in Antarctic Soils. *Journal of Petroleum & Environmental Biotechnology*, **2015**, 06,		25
56	Microbial bioremediation of oil contaminated seawater: A survey of patent deposits and the characterization of the top genera applied. *Science of the Total Environment*, **2019**, 666, 743-758	10.2	24
55	Comparison of DNA extraction protocols for microbial communities from soil treated with biochar. *Brazilian Journal of Microbiology*, **2014**, 45, 175-83	2.2	23

54	Physical-chemical and microbiological changes in Cerrado Soil under differing sugarcane harvest management systems. *BMC Microbiology*, **2012**, 12, 170	4.5	23
53	Microbial diversity and hydrocarbon depletion in low and high diesel-polluted soil samples from Keller Peninsula, South Shetland Islands. *Antarctic Science*, **2015**, 27, 263-273	1.7	22
52	Bacterial structure and characterization of plant growth promoting and oil degrading bacteria from the rhizospheres of mangrove plants. *Journal of Microbiology*, **2011**, 49, 535-43	3	22
51	The Microbiome of Eucalyptus Roots under Different Management Conditions and Its Potential for Biological Nitrogen Fixation. *Microbial Ecology*, **2018**, 75, 183-191	4.4	21
50	Extending the natural adaptive capacity of coral holobionts. *Nature Reviews Earth & Environment*,	30.2	21
49	Customized Medicine for Corals. *Frontiers in Marine Science*, **2019**, 6,	4.5	20
48	Evaluation of soil bioremediation techniques in an aged diesel spill at the Antarctic Peninsula. *Applied Microbiology and Biotechnology*, **2015**, 99, 10815-27	5.7	19
47	Coral microbiome manipulation elicits metabolic and genetic restructuring to mitigate heat stress and evade mortality. *Science Advances*, **2021**, 7,	14.3	19
46	Sugarcane trash levels in soil affects the fungi but not bacteria in a short-term field experiment. *Brazilian Journal of Microbiology*, **2016**, 47, 322-6	2.2	17
45	Aerobic endospore-forming bacteria isolated from Antarctic soils as producers of bioactive compounds of industrial interest. *Polar Biology*, **2014**, 37, 1121-1131	2	16
44	Plant and bird presence strongly influences the microbial communities in soils of Admiralty Bay, Maritime Antarctica. *PLoS ONE*, **2013**, 8, e66109	3.7	16
43	Specific plasmid patterns and high rates of bacterial co-occurrence within the coral holobiont. *Ecology and Evolution*, **2018**, 8, 1818-1832	2.8	14
42	Physiological aspects of mangrove (Laguncularia racemosa) grown in microcosms with oil-degrading bacteria and oil contaminated sediment. *Environmental Pollution*, **2013**, 172, 243-9	9.3	14
41	Predicting the biotechnological potential of bacteria isolated from Antarctic soils, including the rhizosphere of vascular plants. *Polar Biology*, **2017**, 40, 1393-1407	2	13
40	Comparison of different protocols for the extraction of microbial DNA from reef corals. *Brazilian Journal of Microbiology*, **2012**, 43, 517-27	2.2	12
39	Introducing the Mangrove Microbiome Initiative: Identifying Microbial Research Priorities and Approaches To Better Understand, Protect, and Rehabilitate Mangrove Ecosystems. *MSystems*, **2020**, 5,	7.6	12
38	Transcriptional responses of Arabidopsis thaliana to oil contamination. *Environmental and Experimental Botany*, **2016**, 127, 63-72	5.9	11
37	Insights into the Cultured Bacterial Fraction of Corals. *MSystems*, **2021**, 6, e0124920	7.6	11

36	Advances in Microbiome Research for Animal Health. *Annual Review of Animal Biosciences*, **2021**, 9, 289-317	13.7	11
35	Ecological and biotechnological importance of secondary metabolites produced by coral-associated bacteria. *Journal of Applied Microbiology*, **2020**, 129, 1441-1457	4.7	10
34	Inevitable future: space colonization beyond Earth with microbes first. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	9
33	Liver fluke (Fasciola hepatica) naturally infecting introduced European brown hare (Lepus europaeus) in northern Patagonia: phenotype, prevalence and potential risk. *Acta Parasitologica*, **2015**, 60, 536-43	1.7	9
32	Tank bromeliad water: similar or distinct environments for research of bacterial bioactives?. *Brazilian Journal of Microbiology*, **2014**, 45, 185-92	2.2	9
31	Bioemulsifier production byMicrobacterium SP. strains isolated from mangrove and their application to remove cadmiun and zinc from hazardous industrial residue. *Brazilian Journal of Microbiology*, **2010**, 41, 235-45	2.2	9
30	Multi-domain probiotic consortium as an alternative to chemical remediation of oil spills at coral reefs and adjacent sites. *Microbiome*, **2021**, 9, 118	16.6	9
29	Tracking Mangrove Oil Bioremediation Approaches and Bacterial Diversity at Different Depths in an Mesocosms System. *Frontiers in Microbiology*, **2019**, 10, 2107	5.7	8
28	Detection of proteases from Sporosarcina aquimarina and Algoriphagus antarcticus isolated from Antarctic soil. *Anais Da Academia Brasileira De Ciencias*, **2015**, 87, 109-19	1.4	8
27	Rebuilding Coral Reefs: A Decadal Grand Challenge		8
26	Consensus Guidelines for Advancing Coral Holobiont Genome and Specimen Voucher Deposition. *Frontiers in Marine Science*, **2021**, 8,	4.5	8
25	Cellulolytic potential of a novel strain of Paenibacillus sp. isolated from the armored catfish Parotocinclus maculicauda gut. *Brazilian Journal of Microbiology*, **2011**, 42, 1608-1615	2.2	7
24	NOVOS M□TODOS PARA AN□LISE DA DIVERSIDADE MICROBIANA EM SISTEMAS DE TRATAMENTO DE RES□DUOS S□LIDOS E L□QUIDOS. *Oecologia Australis*, **2009**, 13, 631-648	1.6	7
23	Adaptable mesocosm facility to study oil spill impacts on corals. *Ecology and Evolution*, **2019**, 9, 5172-5185	2.8	6
22	Diversity of the candidate phylum Poribacteria in the marine sponge Aplysina fulva. *Brazilian Journal of Microbiology*, **2013**, 44, 329-34	2.2	6
21	Delivering Beneficial Microorganisms for Corals: Rotifers as Carriers of Probiotic Bacteria. *Frontiers in Microbiology*, **2020**, 11, 608506	5.7	6
20	Cyanobacterial and microeukaryotic profiles of healthy, diseased, and dead Millepora alcicornis from the South Atlantic. *Diseases of Aquatic Organisms*, **2016**, 119, 163-72	1.7	5
19	Early Heat Shock Protein Response and Selection of Reference Genes in Arabidopsis thaliana Seedlings Subjected to Marine Fuel Contamination. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	4

18	Prospecting Microbial Strains for Bioremediation and Probiotics Development for Metaorganism Research and Preservation. *Journal of Visualized Experiments*, **2019**,	1.6	4
17	Bacterial and Archaeal Communities Variability Associated with Upwelling and Anthropogenic Pressures in the Protection Area of Arraial do Cabo (Cabo Frio region - RJ). *Anais Da Academia Brasileira De Ciencias*, **2015**, 87, 1737-50	1.4	4
16	Antarctic strict anaerobic microbiota from Deschampsia antarctica vascular plants rhizosphere reveals high ecology and biotechnology relevance. *Extremophiles*, **2016**, 20, 875-884	3	4
15	Tropical Soil Microbial Communities **2013**, 85-95		3
14	Bacterial Diversity in Rhizosphere Soil from Antarctic Vascular Plants of Admiralty Bay in Maritime Antarctica **2013**, 1105-1112		3
13	Cellulolytic potential of a novel strain of Paenibacillus sp. isolated from the armored catfish Parotocinclus maculicauda gut. *Brazilian Journal of Microbiology*, **2011**, 42, 1608-15	2.2	3
12	Bacterial Fecal Microbiota in Healthy Subjects and Inpatients with <i>Clostridium difficile</i> Infection. *Advances in Microbiology*, **2017**, 07, 10-21	0.6	3
11	Assessing skeleton and microbiome responses of a calcareous sponge under thermal and pH stresses. *ICES Journal of Marine Science*, **2021**, 78, 855-866	2.7	3
10	Assessing the impact of synthetic estrogen on the microbiome of aerated submerged fixed-film reactors simulating tertiary sewage treatment and isolation of estrogen-degrading consortium. *Science of the Total Environment*, **2020**, 743, 140428	10.2	3
9	Characterization of Laguncularia racemosa transcriptome and molecular response to oil pollution. *Aquatic Toxicology*, **2018**, 205, 36-50	5.1	3
8	Herpesvirus in the oral cavity of children with leukaemia and its impact on the oral bacterial community profile. *Journal of Clinical Pathology*, **2015**, 68, 222-8	3.9	2
7	Estrogen induces shift in abundances of specific groups of the coral microbiome. *Scientific Reports*, **2021**, 11, 2767	4.9	2
6	Microbial Succession under Freeze-Thaw Events and Its Potential for Hydrocarbon Degradation in Nutrient-Amended Antarctic Soil. *Microorganisms*, **2021**, 9,	4.9	1
5	Global qualitative and quantitative distribution of micropollutants in the deep sea. *Environmental Pollution*, **2022**, 307, 119414	9.3	1
4	Sulphate-reducing bacterial community structure from produced water of the Periquito and Galo de Campina onshore oilfields in Brazil. *Scientific Reports*, **2021**, 11, 20311	4.9	0
3	Host under epigenetic control: A novel perspective on the interaction between microorganisms and corals. *BioEssays*, **2021**, 43, e2100068	4.1	0
2	Highly diverse and geographically differentiated Symbiodiniaceae communities associated with the hydrocoral Millepora alcicornis in the Atlantic Ocean. *Coral Reefs*,1	4.2	
1	Novel in situ observations of asexual reproduction in the carpet sea anemone, Stichodactyla mertensii (Stichodactylidae, Actiniaria). *ZooKeys*,1103, 57-63	1.2	