Maria Olivia Pereira

List of Publications by Citations

94 papers	2,273 citations	26 h-index	44 g-index
96 ext. papers	2,685 ext. citations	4.7 avg, IF	5.23 L-index

#	Paper	IF	Citations
94	Pseudomonas aeruginosa Diversification during Infection Development in Cystic Fibrosis Lungs-A Review. *Pathogens*, **2014**, 3, 680-703	4.5	148
93	Mini-review: Antimicrobial peptides and enzymes as promising candidates to functionalize biomaterial surfaces. *Biofouling*, **2014**, 30, 483-99	3.3	140
92	Effect of flow regime on the architecture of a Pseudomonas fluorescens biofilm. *Biotechnology and Bioengineering*, **2002**, 78, 164-71	4.9	139
91	Effect of mechanical stress on biofilms challenged by different chemicals. *Water Research*, **2005**, 39, 5142-52	4.259	122
90	New trends in peptide-based anti-biofilm strategies: a review of recent achievements and bioinformatic approaches. *Biofouling*, **2012**, 28, 1033-61	3.3	101
89	The effect of hydrodynamic conditions on the phenotype of Pseudomonas fluorescens biofilms. *Biofouling*, **2007**, 23, 249-58	3.3	92
88	Action of a cationic surfactant on the activity and removal of bacterial biofilms formed under different flow regimes. *Water Research*, **2005**, 39, 478-86	12.5	83
87	Control of Flow-Generated Biofilms with Surfactants. *Food and Bioproducts Processing*, **2006**, 84, 338-345	4.9	76
86	Antibiotic resistance of mixed biofilms in cystic fibrosis: impact of emerging microorganisms on treatment of infection. *International Journal of Antimicrobial Agents*, **2012**, 40, 260-3	14.3	72
85	Casbane diterpene as a promising natural antimicrobial agent against biofilm-associated infections. *Molecules*, **2010**, 16, 190-201	4.8	65
84	The effects of a biocide and a surfactant on the detachment of Pseudomonas fluorescens from glass surfaces. *International Journal of Food Microbiology*, **2008**, 121, 335-41	5.8	55
83	Antagonism between Bacillus cereus and Pseudomonas fluorescens in planktonic systems and in biofilms. *Biofouling*, **2008**, 24, 339-49	3.3	45
82	Comparative antibacterial potential of selected aldehyde-based biocides and surfactants against planktonic Pseudomonas fluorescens. *Journal of Industrial Microbiology and Biotechnology*, **2006**, 33, 741-9	4.2	45
81	Quorum sensing inhibition in Pseudomonas aeruginosa biofilms: new insights through network mining. *Biofouling*, **2017**, 33, 128-142	3.3	35
80	Influence of biofilm composition on the resistance to detachment. *Water Science and Technology*, **2007**, 55, 473-80	2.2	35
79	Insights into Cystic Fibrosis Polymicrobial Consortia: The Role of Species Interactions in Biofilm Development, Phenotype, and Response to In-Use Antibiotics. *Frontiers in Microbiology*, **2016**, 7, 2146	5.7	34
78	Validation of respirometry as a short-term method to assess the efficacy of biocides. *Biofouling*, **2005**, 21, 9-17	3.3	34

77	Adaptive response of single and binary Pseudomonas aeruginosa and Escherichia coli biofilms to benzalkonium chloride. *Journal of Basic Microbiology*, **2012**, 52, 43-52	2.7	32
76	Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. *Pathogens and Disease*, **2014**, 70, 250-6	4.2	31
75	Antimicrobial mechanisms of ortho-phthalaldehyde action. *Journal of Basic Microbiology*, **2007**, 47, 230-42	2.7	31
74	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. *Biofilm*, **2020**, 2, 100010	5.9	31
73	Studies on the behaviour of Pseudomonas fluorescens biofilms after Ortho-phthalaldehyde treatment. *Biofouling*, **2003**, 19, 151-7	3.3	29
72	SUSCEPTIBILITY OF MONOSPECIES AND DUAL-SPECIES BIOFILMS OF STAPHYLOCOCCUS AUREUS AND ESCHERICHIA COLI TO ESSENTIAL OILS. *Journal of Food Safety*, **2012**, 32, 351-359	2	28
71	Effect of antimicrobial residues on early adhesion and biofilm formation by wild-type and benzalkonium chloride-adapted Pseudomonas aeruginosa. *Biofouling*, **2011**, 27, 1151-9	3.3	28
70	Improvements on colony morphology identification towards bacterial profiling. *Journal of Microbiological Methods*, **2013**, 95, 327-35	2.8	27
69	The cystic fibrosis microbiome in an ecological perspective and its impact in antibiotic therapy. *Applied Microbiology and Biotechnology*, **2016**, 100, 1163-1181	5.7	26
68	Effect of algae and plant lectins on planktonic growth and biofilm formation in clinically relevant bacteria and yeasts. *BioMed Research International*, **2014**, 2014, 365272	3	26
67	Relationship between protozoan and metazoan communities and operation and performance parameters in a textile sewage activated sludge system. *European Journal of Protistology*, **2014**, 50, 319-28	2.6	26
66	Effects of the interactions between glutaraldehyde and the polymeric matrix on the efficacy of the biocide against pseudomonas fluorescens biofilms. *Biofouling*, **2001**, 17, 93-101	3.3	26
65	Polymicrobial Ventilator-Associated Pneumonia: Fighting In Vitro Candida albicans-Pseudomonas aeruginosa Biofilms with Antifungal-Antibacterial Combination Therapy. *PLoS ONE*, **2017**, 12, e0170433	3.7	25
64	BiofOmics: a Web platform for the systematic and standardized collection of high-throughput biofilm data. *PLoS ONE*, **2012**, 7, e39960	3.7	24
63	Emergent bacteria in cystic fibrosis: in vitro biofilm formation and resilience under variable oxygen conditions. *BioMed Research International*, **2014**, 2014, 678301	3	23
62	A versatile reactor for continuous monitoring of biofilm properties in laboratory and industrial conditions. *Letters in Applied Microbiology*, **2002**, 34, 22-6	2.9	22
61	Searching for new strategies against biofilm infections: Colistin-AMP combinations against Pseudomonas aeruginosa and Staphylococcus aureus single- and double-species biofilms. *PLoS ONE* , **2017**, 12, e0174654	3.7	21
60	Studies on the Behaviour of Pseudomonas fluorescens Biofilms after Ortho-phthalaldehyde Treatment. *Biofouling*, **2003**, 19, 151-157	3.3	21

59	Microbiome in cystic fibrosis: Shaping polymicrobial interactions for advances in antibiotic therapy. *Critical Reviews in Microbiology*, **2015**, 41, 353-65	7.8	20
58	Effect of different concentrations of ortho-phthalaldehyde on biofilms formed by Pseudomonas fluorescens under different flow conditions. *Biofouling*, **2003**, 19, 287-95	3.3	20
57	Quantitative assessment of individual populations within polymicrobial biofilms. *Scientific Reports*, **2018**, 8, 9494	4.9	20
56	Time to "go large" on biofilm research: advantages of an omics approach. *Biotechnology Letters*, **2009**, 31, 477-85	3	19
55	Antimicrobial resistance three ways: healthcare crisis, major concepts and the relevance of biofilms. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	18
54	Heteroresistance to colistin in Klebsiella pneumoniae is triggered by small colony variants sub-populations within biofilms. *Pathogens and Disease*, **2016**, 74,	4.2	18
53	Proteomic approach to Pseudomonas aeruginosa adaptive resistance to benzalkonium chloride. *Journal of Proteomics*, **2013**, 89, 273-9	3.9	17
52	RNA-based qPCR as a tool to quantify and to characterize dual-species biofilms. *Scientific Reports*, **2019**, 9, 13639	4.9	16
51	Co-immobilization of Palm and DNase I for the development of an effective anti-infective coating for catheter surfaces. *Acta Biomaterialia*, **2016**, 44, 313-22	10.8	16
50	Sodium dodecyl sulfate allows the persistence and recovery of biofilms of Pseudomonas fluorescens formed under different hydrodynamic conditions. *Biofouling*, **2008**, 24, 35-44	3.3	15
49	Design of an Antifungal Surface Embedding Liposomal Amphotericin B Through a Mussel Adhesive-Inspired Coating Strategy. *Frontiers in Chemistry*, **2019**, 7, 431	5	14
48	Biofilm formation of Brazilian meticillin-resistant strains: prevalence of biofilm determinants and clonal profiles. *Journal of Medical Microbiology*, **2016**, 65, 286-297	3.2	14
47	A network perspective on antimicrobial peptide combination therapies: the potential of colistin, polymyxin B and nisin. *International Journal of Antimicrobial Agents*, **2017**, 49, 668-676	14.3	13
46	Role of planktonic and sessile extracellular metabolic byproducts on Pseudomonas aeruginosa and Escherichia coli intra and interspecies relationships. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 133-40	4.2	13
45	MorphoCol: An ontology-based knowledgebase for the characterisation of clinically significant bacterial colony morphologies. *Journal of Biomedical Informatics*, **2015**, 55, 55-63	10.2	12
44	Bio-Inspired Coating Strategies for the Immobilization of Polymyxins to Generate Contact-Killing Surfaces. *Macromolecular Bioscience*, **2016**, 16, 1450-1460	5.5	12
43	Anti-biofim and Antibacterial Effect of Essential Oils and Their Major Compounds. *Journal of Essential Oil-bearing Plants: JEOP*, **2016**, 19, 624-631	1.7	12
42	Use of an aerobic selector to overcome filamentous bulking in an activated sludge wastewater treatment plant. *Environmental Technology (United Kingdom)*, **2014**, 35, 1525-31	2.6	12

41	Discriminating typical and atypical cystic fibrosis-related bacteria by multiplex PNA-FISH. *Biotechnology and Bioengineering*, **2017**, 114, 355-367	4.9	11
40	Effect of a casbane diterpene isolated from Croton nepetaefolius on the prevention and control of biofilms formed by bacteria and Candida species. *Industrial Crops and Products*, **2014**, 61, 499-509	5.9	11
39	Developing a model for cystic fibrosis sociomicrobiology based on antibiotic and environmental stress. *International Journal of Medical Microbiology*, **2017**, 307, 460-470	3.7	10
38	The role of hydrodynamic stress on the phenotypic characteristics of single and binary biofilms of Pseudomonas fluorescens. *Water Science and Technology*, **2007**, 55, 437-45	2.2	10
37	Comparison of two biocides--carbamate and glutaraldehyde--in the control of fouling in pulp and paper industry. *Environmental Technology (United Kingdom)*, **2001**, 22, 781-90	2.6	10
36	Unraveling and Communication in Coinfection Scenarios: Insights Through Network Analysis. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 550505	5.9	10
35	and communication in biofilm infections: insights through network and database construction. *Critical Reviews in Microbiology*, **2019**, 45, 712-728	7.8	9
34	Exploring anti-quorum sensing and anti-virulence based strategies to fight Candida albicans infections: an in silico approach. *FEMS Yeast Research*, **2018**, 18,	3.1	8
33	Retention of bacteria by cellulose fibres as a means of reducing biofouling in paper pulp production processes. *Biofouling*, **1998**, 13, 1-18	3.3	8
32	Antimicrobial Pressure of Ciprofloxacin and Gentamicin on Biofilm Development by an Endoscope-Isolated Pseudomonas aeruginosa. *ISRN Biotechnology*, **2013**, 2013, 178646		8
31	Role of bolA and rpoS genes in biofilm formation and adherence pattern by Escherichia coli K-12 MG1655 on polypropylene, stainless steel, and silicone surfaces. *Acta Microbiologica Et Immunologica Hungarica*, **2017**, 64, 179-189	1.8	7
30	Antibacterial and anti-biofilm activity of cinnamon essential oil and eugenol. *Ciencia Rural*, **2019**, 49,	1.3	7
29	Unveiling the early events of Pseudomonas aeruginosa adaptation in cystic fibrosis airway environment using a long-term in vitro maintenance. *International Journal of Medical Microbiology*, **2018**, 308, 1053-1064	3.7	7
28	Enabling systematic, harmonised and large-scale biofilms data computation: the Biofilms Experiment Workbench. *Computer Methods and Programs in Biomedicine*, **2015**, 118, 309-21	6.9	6
27	Antibacterial and antioxidant activities of derriobtusone A isolated from Lonchocarpus obtusus. *BioMed Research International*, **2014**, 2014, 248656	3	6
26	The role of kaolin particles in the performance of a carbamate-based biocide for water bacterial control. *Water Environment Research*, **2002**, 74, 235-41	2.8	6
25	Construction of antimicrobial peptide-drug combination networks from scientific literature based on a semi-automated curation workflow. *Database: the Journal of Biological Databases and Curation*, **2016**, 2016,	5	6
24	Polydopamine-Mediated Immobilization of Alginate Lyase to Prevent P. aeruginosa Adhesion. *Macromolecular Bioscience*, **2016**, 16, 1301-10	5.5	6

23	Unveiling the fate of adhering bacteria to antimicrobial surfaces: expression of resistance-associated genes and macrophage-mediated phagocytosis. *Acta Biomaterialia*, **2018**, 78, 189-197	10.8	5
22	Reconstruction of the Network of Experimentally Validated AMP-Drug Combinations Against Pseudomonas aeruginosa Infections. *Current Bioinformatics*, **2016**, 11, 523-530	4.7	5
21	Fostering Innovation in the Treatment of Chronic Polymicrobial Cystic Fibrosis-Associated Infections Exploring Aspartic Acid and Succinic Acid as Ciprofloxacin Adjuvants. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 441	5.9	5
20	Catalysing the way towards antimicrobial effectiveness: A systematic analysis and a new online resource for antimicrobial-enzyme combinations against Pseudomonas aeruginosa and Staphylococcus aureus. *International Journal of Antimicrobial Agents*, **2019**, 53, 598-605	14.3	4
19	Chemical Characterization of L. Flowers Aqueous Extract and Its Biological Implications. *Biomolecules*, **2021**, 11,	5.9	4
18	Antimicrobial synergism against different lineages of methicillin-resistant Staphylococcus aureus carrying SCCmec IV. *Journal of Applied Microbiology*, **2014**, 116, 1418-26	4.7	3
17	A new approach to bacterial colony morphotyping by matrix-assisted laser desorption ionization time of flight-based mass spectrometry. *Talanta*, **2013**, 116, 100-7	6.2	3
16	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. *Journal of Integrative Bioinformatics*, **2012**, 9, 57-68	3.8	3
15	Tailoring the immobilization and release of chlorhexidine using dopamine chemistry to fight infections associated to orthopedic devices. *Materials Science and Engineering C*, **2021**, 120, 111742	8.3	3
14	A harmonised vocabulary for communicating and interchanging Biofilms experimental results. *Journal of Integrative Bioinformatics*, **2014**, 11, 32-47	3.8	2
13	Data Quality in Biofilm High-Throughput Routine Analysis: Intralaboratory Protocol Adaptation and Experiment Reproducibility. *Journal of AOAC INTERNATIONAL*, **2015**, 98, 1721-7	1.7	2
12	Discerning the role of polymicrobial biofilms in the ascent, prevalence, and extent of heteroresistance in clinical practice. *Critical Reviews in Microbiology*, **2021**, 47, 162-191	7.8	2
11	Reprocessing of Single-Use Medical Devices in hospital environment: evolution and future perspectives **2019**,		1
10	Networking the Way towards Antimicrobial Combination Therapies. *Advances in Intelligent Systems and Computing*, **2014**, 201-206	0.4	1
9	BEW: Bioinformatics Workbench for Analysis of Biofilms Experimental Data. *Advances in Intelligent Systems and Computing*, **2014**, 49-56	0.4	1
8	MorphoCol: A Powerful Tool for the Clinical Profiling of Pathogenic Bacteria. *Advances in Intelligent and Soft Computing*, **2012**, 181-188		1
7	Viable but non-cultivable state: a strategy for Staphylococcus aureus survivable in dual-species biofilms with Pseudomonas aeruginosa?. *Environmental Microbiology*, **2021**, 23, 5639-5649	5.2	1
6	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. *Journal of Integrative Bioinformatics*, **2012**, 9, 203	3.8	1

5	Pathogenicity phenomena in three model systems: from network mining to emerging system-level properties. *Briefings in Bioinformatics*, **2015**, 16, 169-82	13.4	0
4	Long-term coexistence of and using an cystic fibrosis model. *Future Microbiology*, **2021**, 16, 879-893	2.9	0
3	A Systematic Approach to the Interrogation and Sharing of Standardised Biofilm Signatures. *Advances in Intelligent and Soft Computing*, **2012**, 113-120		
2	Designing an Ontology Tool for the Unification of Biofilms Data. *Advances in Intelligent Systems and Computing*, **2014**, 41-48	0.4	
1	An harmonised vocabulary for communicating and interchanging biofilms experimental results. *Journal of Integrative Bioinformatics*, **2014**, 11, 249	3.8	