

# Maria Olivia Pereira

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Tailoring the immobilization and release of chlorhexidine using dopamine chemistry to fight infections associated to orthopedic devices. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111742	8.3	3
93	Discerning the role of polymicrobial biofilms in the ascent, prevalence, and extent of heteroresistance in clinical practice. <i>Critical Reviews in Microbiology</i> , <b>2021</b> , 47, 162-191	7.8	2
92	Chemical Characterization of L. Flowers Aqueous Extract and Its Biological Implications. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	4
91	Long-term coexistence of and using an cystic fibrosis model. <i>Future Microbiology</i> , <b>2021</b> , 16, 879-893	2.9	0
90	Viable but non-cultivable state: a strategy for Staphylococcus aureus survivable in dual-species biofilms with Pseudomonas aeruginosa?. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 5639-5649	5.2	1
89	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , <b>2020</b> , 2, 100010	5.9	31
88	Unraveling and Communication in Coinfection Scenarios: Insights Through Network Analysis. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 550505	5.9	10
87	Fostering Innovation in the Treatment of Chronic Polymicrobial Cystic Fibrosis-Associated Infections Exploring Aspartic Acid and Succinic Acid as Ciprofloxacin Adjuvants. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 441	5.9	5
86	RNA-based qPCR as a tool to quantify and to characterize dual-species biofilms. <i>Scientific Reports</i> , <b>2019</b> , 9, 13639	4.9	16
85	Reprocessing of Single-Use Medical Devices in hospital environment: evolution and future perspectives <b>2019</b> ,		1
84	Antibacterial and anti-biofilm activity of cinnamon essential oil and eugenol. <i>Ciencia Rural</i> , <b>2019</b> , 49,	1.3	7
83	Antimicrobial resistance three ways: healthcare crisis, major concepts and the relevance of biofilms. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	18
82	Design of an Antifungal Surface Embedding Liposomal Amphotericin B Through a Mussel Adhesive-Inspired Coating Strategy. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 431	5	14
81	and communication in biofilm infections: insights through network and database construction. <i>Critical Reviews in Microbiology</i> , <b>2019</b> , 45, 712-728	7.8	9
80	Catalysing the way towards antimicrobial effectiveness: A systematic analysis and a new online resource for antimicrobial-enzyme combinations against Pseudomonas aeruginosa and Staphylococcus aureus. <i>International Journal of Antimicrobial Agents</i> , <b>2019</b> , 53, 598-605	14.3	4
79	Exploring anti-quorum sensing and anti-virulence based strategies to fight Candida albicans infections: an in silico approach. <i>FEMS Yeast Research</i> , <b>2018</b> , 18,	3.1	8
78	Unveiling the fate of adhering bacteria to antimicrobial surfaces: expression of resistance-associated genes and macrophage-mediated phagocytosis. <i>Acta Biomaterialia</i> , <b>2018</b> , 78, 189-197	10.8	5

77	Unveiling the early events of <i>Pseudomonas aeruginosa</i> adaptation in cystic fibrosis airway environment using a long-term in vitro maintenance. <i>International Journal of Medical Microbiology</i> , <b>2018</b> , 308, 1053-1064	3.7	7
76	Quantitative assessment of individual populations within polymicrobial biofilms. <i>Scientific Reports</i> , <b>2018</b> , 8, 9494	4.9	20
75	Quorum sensing inhibition in <i>Pseudomonas aeruginosa</i> biofilms: new insights through network mining. <i>Biofouling</i> , <b>2017</b> , 33, 128-142	3.3	35
74	A network perspective on antimicrobial peptide combination therapies: the potential of colistin, polymyxin B and nisin. <i>International Journal of Antimicrobial Agents</i> , <b>2017</b> , 49, 668-676	14.3	13
73	Role of <i>bolA</i> and <i>rpoS</i> genes in biofilm formation and adherence pattern by <i>Escherichia coli</i> K-12 MG1655 on polypropylene, stainless steel, and silicone surfaces. <i>Acta Microbiologica Et Immunologica Hungarica</i> , <b>2017</b> , 64, 179-189	1.8	7
72	Developing a model for cystic fibrosis sociomicrobiology based on antibiotic and environmental stress. <i>International Journal of Medical Microbiology</i> , <b>2017</b> , 307, 460-470	3.7	10
71	Searching for new strategies against biofilm infections: Colistin-AMP combinations against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> single- and double-species biofilms. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174654	3.7	21
70	Discriminating typical and atypical cystic fibrosis-related bacteria by multiplex PNA-FISH. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 355-367	4.9	11
69	Polymicrobial Ventilator-Associated Pneumonia: Fighting In Vitro <i>Candida albicans</i> - <i>Pseudomonas aeruginosa</i> Biofilms with Antifungal-Antibacterial Combination Therapy. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170433	3.7	25
68	Bio-Inspired Coating Strategies for the Immobilization of Polymyxins to Generate Contact-Killing Surfaces. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1450-1460	5.5	12
67	Anti-biofilm and Antibacterial Effect of Essential Oils and Their Major Compounds. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , <b>2016</b> , 19, 624-631	1.7	12
66	The cystic fibrosis microbiome in an ecological perspective and its impact in antibiotic therapy. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 1163-1181	5.7	26
65	Insights into Cystic Fibrosis Polymicrobial Consortia: The Role of Species Interactions in Biofilm Development, Phenotype, and Response to In-Use Antibiotics. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 2146	5.7	34
64	Reconstruction of the Network of Experimentally Validated AMP-Drug Combinations Against <i>Pseudomonas aeruginosa</i> Infections. <i>Current Bioinformatics</i> , <b>2016</b> , 11, 523-530	4.7	5
63	Construction of antimicrobial peptide-drug combination networks from scientific literature based on a semi-automated curation workflow. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2016</b> , 2016,	5	6
62	Biofilm formation of Brazilian methicillin-resistant strains: prevalence of biofilm determinants and clonal profiles. <i>Journal of Medical Microbiology</i> , <b>2016</b> , 65, 286-297	3.2	14
61	Polydopamine-Mediated Immobilization of Alginate Lyase to Prevent <i>P. aeruginosa</i> Adhesion. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1301-10	5.5	6
60	Heteroresistance to colistin in <i>Klebsiella pneumoniae</i> is triggered by small colony variants sub-populations within biofilms. <i>Pathogens and Disease</i> , <b>2016</b> , 74,	4.2	18

59	Co-immobilization of Palm and DNase I for the development of an effective anti-infective coating for catheter surfaces. <i>Acta Biomaterialia</i> , <b>2016</b> , 44, 313-22	10.8	16
58	MorphoCol: An ontology-based knowledgebase for the characterisation of clinically significant bacterial colony morphologies. <i>Journal of Biomedical Informatics</i> , <b>2015</b> , 55, 55-63	10.2	12
57	Enabling systematic, harmonised and large-scale biofilms data computation: the Biofilms Experiment Workbench. <i>Computer Methods and Programs in Biomedicine</i> , <b>2015</b> , 118, 309-21	6.9	6
56	Microbiome in cystic fibrosis: Shaping polymicrobial interactions for advances in antibiotic therapy. <i>Critical Reviews in Microbiology</i> , <b>2015</b> , 41, 353-65	7.8	20
55	Pathogenicity phenomena in three model systems: from network mining to emerging system-level properties. <i>Briefings in Bioinformatics</i> , <b>2015</b> , 16, 169-82	13.4	0
54	Data Quality in Biofilm High-Throughput Routine Analysis: Intralaboratory Protocol Adaptation and Experiment Reproducibility. <i>Journal of AOAC INTERNATIONAL</i> , <b>2015</b> , 98, 1721-7	1.7	2
53	Mini-review: Antimicrobial peptides and enzymes as promising candidates to functionalize biomaterial surfaces. <i>Biofouling</i> , <b>2014</b> , 30, 483-99	3.3	140
52	Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. <i>Pathogens and Disease</i> , <b>2014</b> , 70, 250-6	4.2	31
51	<i>Pseudomonas aeruginosa</i> Diversification during Infection Development in Cystic Fibrosis Lungs-A Review. <i>Pathogens</i> , <b>2014</b> , 3, 680-703	4.5	148
50	A harmonised vocabulary for communicating and interchanging Biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , <b>2014</b> , 11, 32-47	3.8	2
49	Antibacterial and antioxidant activities of derriobtusone A isolated from <i>Lonchocarpus obtusus</i> . <i>BioMed Research International</i> , <b>2014</b> , 2014, 248656	3	6
48	Effect of algae and plant lectins on planktonic growth and biofilm formation in clinically relevant bacteria and yeasts. <i>BioMed Research International</i> , <b>2014</b> , 2014, 365272	3	26
47	Emergent bacteria in cystic fibrosis: in vitro biofilm formation and resilience under variable oxygen conditions. <i>BioMed Research International</i> , <b>2014</b> , 2014, 678301	3	23
46	Use of an aerobic selector to overcome filamentous bulking in an activated sludge wastewater treatment plant. <i>Environmental Technology (United Kingdom)</i> , <b>2014</b> , 35, 1525-31	2.6	12
45	Antimicrobial synergism against different lineages of methicillin-resistant <i>Staphylococcus aureus</i> carrying SCCmec IV. <i>Journal of Applied Microbiology</i> , <b>2014</b> , 116, 1418-26	4.7	3
44	Effect of a casbane diterpene isolated from <i>Croton nepetaefolius</i> on the prevention and control of biofilms formed by bacteria and <i>Candida</i> species. <i>Industrial Crops and Products</i> , <b>2014</b> , 61, 499-509	5.9	11
43	Relationship between protozoan and metazoan communities and operation and performance parameters in a textile sewage activated sludge system. <i>European Journal of Protistology</i> , <b>2014</b> , 50, 319-28	3.6	26
42	Networking the Way towards Antimicrobial Combination Therapies. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 201-206	0.4	1

41	BEW: Bioinformatics Workbench for Analysis of Biofilms Experimental Data. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 49-56	0.4	1
40	Designing an Ontology Tool for the Unification of Biofilms Data. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 41-48	0.4	
39	An harmonised vocabulary for communicating and interchanging biofilms experimental results. <i>Journal of Integrative Bioinformatics</i> , <b>2014</b> , 11, 249	3.8	
38	Proteomic approach to <i>Pseudomonas aeruginosa</i> adaptive resistance to benzalkonium chloride. <i>Journal of Proteomics</i> , <b>2013</b> , 89, 273-9	3.9	17
37	Improvements on colony morphology identification towards bacterial profiling. <i>Journal of Microbiological Methods</i> , <b>2013</b> , 95, 327-35	2.8	27
36	A new approach to bacterial colony morphotyping by matrix-assisted laser desorption ionization time of flight-based mass spectrometry. <i>Talanta</i> , <b>2013</b> , 116, 100-7	6.2	3
35	Antimicrobial Pressure of Ciprofloxacin and Gentamicin on Biofilm Development by an Endoscope-Isolated <i>Pseudomonas aeruginosa</i> . <i>ISRN Biotechnology</i> , <b>2013</b> , 2013, 178646		8
34	SUSCEPTIBILITY OF MONOSPECIES AND DUAL-SPECIES BIOFILMS OF STAPHYLOCOCCUS AUREUS AND ESCHERICHIA COLI TO ESSENTIAL OILS. <i>Journal of Food Safety</i> , <b>2012</b> , 32, 351-359	2	28
33	Adaptive response of single and binary <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> biofilms to benzalkonium chloride. <i>Journal of Basic Microbiology</i> , <b>2012</b> , 52, 43-52	2.7	32
32	Antibiotic resistance of mixed biofilms in cystic fibrosis: impact of emerging microorganisms on treatment of infection. <i>International Journal of Antimicrobial Agents</i> , <b>2012</b> , 40, 260-3	14.3	72
31	New trends in peptide-based anti-biofilm strategies: a review of recent achievements and bioinformatic approaches. <i>Biofouling</i> , <b>2012</b> , 28, 1033-61	3.3	101
30	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. <i>Journal of Integrative Bioinformatics</i> , <b>2012</b> , 9, 57-68	3.8	3
29	BioOmics: a Web platform for the systematic and standardized collection of high-throughput biofilm data. <i>PLoS ONE</i> , <b>2012</b> , 7, e39960	3.7	24
28	MorphoCol: A Powerful Tool for the Clinical Profiling of Pathogenic Bacteria. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 181-188		1
27	A Systematic Approach to the Interrogation and Sharing of Standardised Biofilm Signatures. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 113-120		
26	Computational approaches to standard-compliant biofilm data for reliable analysis and integration. <i>Journal of Integrative Bioinformatics</i> , <b>2012</b> , 9, 203	3.8	1
25	Role of planktonic and sessile extracellular metabolic byproducts on <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> intra and interspecies relationships. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2011</b> , 38, 133-40	4.2	13
24	Effect of antimicrobial residues on early adhesion and biofilm formation by wild-type and benzalkonium chloride-adapted <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , <b>2011</b> , 27, 1151-9	3.3	28

23	Casbane diterpene as a promising natural antimicrobial agent against biofilm-associated infections. <i>Molecules</i> , <b>2010</b> , 16, 190-201	4.8	65
22	Time to "go large" on biofilm research: advantages of an omics approach. <i>Biotechnology Letters</i> , <b>2009</b> , 31, 477-85	3	19
21	The effects of a biocide and a surfactant on the detachment of <i>Pseudomonas fluorescens</i> from glass surfaces. <i>International Journal of Food Microbiology</i> , <b>2008</b> , 121, 335-41	5.8	55
20	Sodium dodecyl sulfate allows the persistence and recovery of biofilms of <i>Pseudomonas fluorescens</i> formed under different hydrodynamic conditions. <i>Biofouling</i> , <b>2008</b> , 24, 35-44	3.3	15
19	Antagonism between <i>Bacillus cereus</i> and <i>Pseudomonas fluorescens</i> in planktonic systems and in biofilms. <i>Biofouling</i> , <b>2008</b> , 24, 339-49	3.3	45
18	The role of hydrodynamic stress on the phenotypic characteristics of single and binary biofilms of <i>Pseudomonas fluorescens</i> . <i>Water Science and Technology</i> , <b>2007</b> , 55, 437-45	2.2	10
17	Antimicrobial mechanisms of ortho-phthalaldehyde action. <i>Journal of Basic Microbiology</i> , <b>2007</b> , 47, 230-427		31
16	Influence of biofilm composition on the resistance to detachment. <i>Water Science and Technology</i> , <b>2007</b> , 55, 473-80	2.2	35
15	The effect of hydrodynamic conditions on the phenotype of <i>Pseudomonas fluorescens</i> biofilms. <i>Biofouling</i> , <b>2007</b> , 23, 249-58	3.3	92
14	Control of Flow-Generated Biofilms with Surfactants. <i>Food and Bioproducts Processing</i> , <b>2006</b> , 84, 338-345	4.9	76
13	Comparative antibacterial potential of selected aldehyde-based biocides and surfactants against planktonic <i>Pseudomonas fluorescens</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2006</b> , 33, 741-9	4.2	45
12	Action of a cationic surfactant on the activity and removal of bacterial biofilms formed under different flow regimes. <i>Water Research</i> , <b>2005</b> , 39, 478-86	12.5	83
11	Effect of mechanical stress on biofilms challenged by different chemicals. <i>Water Research</i> , <b>2005</b> , 39, 5142-52	12.5	122
10	Validation of respirometry as a short-term method to assess the efficacy of biocides. <i>Biofouling</i> , <b>2005</b> , 21, 9-17	3.3	34
9	Effect of different concentrations of ortho-phthalaldehyde on biofilms formed by <i>Pseudomonas fluorescens</i> under different flow conditions. <i>Biofouling</i> , <b>2003</b> , 19, 287-95	3.3	20
8	Studies on the behaviour of <i>Pseudomonas fluorescens</i> biofilms after Ortho-phthalaldehyde treatment. <i>Biofouling</i> , <b>2003</b> , 19, 151-7	3.3	29
7	Studies on the Behaviour of <i>Pseudomonas fluorescens</i> Biofilms after Ortho-phthalaldehyde Treatment. <i>Biofouling</i> , <b>2003</b> , 19, 151-157	3.3	21
6	Effect of flow regime on the architecture of a <i>Pseudomonas fluorescens</i> biofilm. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 78, 164-71	4.9	139

5	A versatile reactor for continuous monitoring of biofilm properties in laboratory and industrial conditions. <i>Letters in Applied Microbiology</i> , <b>2002</b> , 34, 22-6	2.9	22
4	The role of kaolin particles in the performance of a carbamate-based biocide for water bacterial control. <i>Water Environment Research</i> , <b>2002</b> , 74, 235-41	2.8	6
3	Effects of the interactions between glutaraldehyde and the polymeric matrix on the efficacy of the biocide against pseudomonas fluorescens biofilms. <i>Biofouling</i> , <b>2001</b> , 17, 93-101	3.3	26
2	Comparison of two biocides--carbamate and glutaraldehyde--in the control of fouling in pulp and paper industry. <i>Environmental Technology (United Kingdom)</i> , <b>2001</b> , 22, 781-90	2.6	10
1	Retention of bacteria by cellulose fibres as a means of reducing biofouling in paper pulp production processes. <i>Biofouling</i> , <b>1998</b> , 13, 1-18	3.3	8