

# Angeles Manresa

## List of Publications by Citations

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97  
papers

4,861  
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40  
h-index

68  
g-index

100  
ext. papers

5,396  
ext. citations

4.3  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
97	Physicochemical and Antimicrobial Properties of New Rhamnolipids Produced by <i>Pseudomonas aeruginosa</i> AT10 from Soybean Oil Refinery Wastes. <i>Langmuir</i> , <b>2001</b> , 17, 1367-1371	4	362
96	Self-aggregation and antimicrobial activity of imidazolium and pyridinium based ionic liquids in aqueous solution. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 355, 164-71	9.3	304
95	Chemical structure, surface properties and biological activities of the biosurfactant produced by <i>Pseudomonas aeruginosa</i> LBI from soapstock. <i>Antonie Van Leeuwenhoek</i> , <b>2004</b> , 85, 1-8	2.1	282
94	Physicochemical characterization and antimicrobial properties of rhamnolipids produced by <i>Pseudomonas aeruginosa</i> 47T2 NCBIM 40044. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 81, 316-22	4.9	254
93	Screening and production of rhamnolipids by <i>Pseudomonas aeruginosa</i> 47T2 NCIB 40044 from waste frying oils. <i>Journal of Applied Microbiology</i> , <b>2000</b> , 88, 379-87	4.7	229
92	Aggregation behavior and antimicrobial activity of ester-functionalized imidazolium- and pyridinium-based ionic liquids in aqueous solution. <i>Langmuir</i> , <b>2013</b> , 29, 2536-45	4	170
91	Synthesis, Aggregation, and Biological Properties of a New Class of Gemini Cationic Amphiphilic Compounds from Arginine, bis(Arg). <i>Langmuir</i> , <b>1996</b> , 12, 5296-5301	4	143
90	Cellular effects of monohydrochloride of L-arginine, N-lauroyl ethylester (LAE) on exposure to <i>Salmonella typhimurium</i> and <i>Staphylococcus aureus</i> . <i>Journal of Applied Microbiology</i> , <b>2004</b> , 96, 903-12	4.7	141
89	Aggregation behaviour of a dirhamnolipid biosurfactant secreted by <i>Pseudomonas aeruginosa</i> in aqueous media. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 307, 246-53	9.3	118
88	Agro-industrial oily wastes as substrates for PHA production by the new strain <i>Pseudomonas aeruginosa</i> NCIB 40045: Effect of culture conditions. <i>Biochemical Engineering Journal</i> , <b>2005</b> , 26, 159-167	4.2	115
87	Investigation of functional and morphological changes in <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> cells induced by <i>Origanum compactum</i> essential oil. <i>Journal of Applied Microbiology</i> , <b>2009</b> , 106, 1558-68	4.7	107
86	Functional and ultrastructural changes in <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> cells induced by <i>Cinnamomum verum</i> essential oil. <i>Journal of Applied Microbiology</i> , <b>2010</b> , 109, 1139-49	4.7	99
85	Cationic surfactants from lysine: synthesis, micellization and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 1884-92	6.8	96
84	Reclassification of <i>Geobacillus pallidus</i> (Scholz et al. 1988) Banat et al. 2004 as <i>Aeribacillus pallidus</i> gen. nov., comb. nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2010</b> , 60, 1600-1604	2.2	77
83	Use of liquid chromatography-mass spectroscopy for studying the composition and properties of rhamnolipids produced by different strains of <i>Pseudomonas aeruginosa</i> . <i>Journal of Surfactants and Detergents</i> , <b>2003</b> , 6, 155-161	1.9	74
82	Poly 3-(hydroxyalkanoates) produced from oily substrates by <i>Pseudomonas aeruginosa</i> 47T2 (NCBIM 40044): Effect of nutrients and incubation temperature on polymer composition. <i>Biochemical Engineering Journal</i> , <b>2007</b> , 35, 99-106	4.2	72
81	Self-assembly and antimicrobial activity of long-chain amide-functionalized ionic liquids in aqueous solution. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 123, 318-25	6	70

80	Effects of dirhamnolipid on the structural properties of phosphatidylcholine membranes. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 325, 99-107	6.5	67
79	Production, characterization and biotechnological potential of lipopeptide biosurfactants from a novel marine <i>Bacillus stratosphericus</i> strain FLU5. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 167, 441-449	7	66
78	Rhamnolipids as emulsifying agents for essential oil formulations: antimicrobial effect against <i>Candida albicans</i> and methicillin-resistant <i>Staphylococcus aureus</i> . <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 476, 134-41	6.5	65
77	A bioinspired peptide scaffold with high antibiotic activity and low in vivo toxicity. <i>Scientific Reports</i> , <b>2015</b> , 5, 10558	4.9	63
76	Modulation of the physical properties of dielaidoylphosphatidylethanolamine membranes by a dirhamnolipid biosurfactant produced by <i>Pseudomonas aeruginosa</i> . <i>Chemistry and Physics of Lipids</i> , <b>2006</b> , 142, 118-27	3.7	61
75	Isolation of lipase-secreting bacteria by deploying used frying oil as selective substrate. <i>Enzyme and Microbial Technology</i> , <b>2000</b> , 26, 40-44	3.8	61
74	The physicochemical properties and chemical composition of trehalose lipids produced by <i>Rhodococcus erythropolis</i> 51T7. <i>Chemistry and Physics of Lipids</i> , <b>2009</b> , 158, 110-7	3.7	59
73	Purification and identification of <i>Bacillus subtilis</i> SPB1 lipopeptide biosurfactant exhibiting antifungal activity against <i>Rhizoctonia bataticola</i> and <i>Rhizoctonia solani</i> . <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 6690-9	5.1	56
72	Mechanism of membrane permeabilization by a bacterial trehalose lipid biosurfactant produced by <i>Rhodococcus</i> sp. <i>Langmuir</i> , <b>2009</b> , 25, 7892-8	4	55
71	Identification of oxylipins with antifungal activity by LC-MS/MS from the supernatant of <i>Pseudomonas</i> 42A2. <i>Chemistry and Physics of Lipids</i> , <b>2010</b> , 163, 341-6	3.7	54
70	Permeabilization of biological and artificial membranes by a bacterial dirhamnolipid produced by <i>Pseudomonas aeruginosa</i> . <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 341, 240-7	9.3	54
69	Optimizing the production of the biosurfactant lichenysin and its application in biofilm control. <i>Journal of Applied Microbiology</i> , <b>2016</b> , 120, 99-111	4.7	53
68	Structure and interaction with phospholipids of a prokaryotic lipoxygenase from <i>Pseudomonas aeruginosa</i> . <i>FASEB Journal</i> , <b>2013</b> , 27, 4811-21	0.9	52
67	Bacterial lipoxygenases, a new subfamily of enzymes? A phylogenetic approach. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 4737-47	5.7	51
66	Antioxidant properties, antimicrobial and anti-adhesive activities of DCS1 lipopeptides from <i>Bacillus methylophilus</i> DCS1. <i>BMC Microbiology</i> , <b>2017</b> , 17, 144	4.5	51
65	Hemolytic activity of a bacterial trehalose lipid biosurfactant produced by <i>Rhodococcus</i> sp.: evidence for a colloid-osmotic mechanism. <i>Langmuir</i> , <b>2010</b> , 26, 8567-72	4	46
64	Oxydation of oleic acid to (E)-10-hydroperoxy-8-octadecenoic and (E)-10-hydroxy-8-octadecenoic acids by <i>Pseudomonas</i> sp. 42A2. <i>Lipids and Lipid Metabolism</i> , <b>1997</b> , 1347, 75-81		45
63	Thermodynamics of the interaction of a dirhamnolipid biosurfactant secreted by <i>Pseudomonas aeruginosa</i> with phospholipid membranes. <i>Langmuir</i> , <b>2007</b> , 23, 2700-5	4	45

62	Interactions of a bacterial biosurfactant trehalose lipid with phosphatidylserine membranes. <i>Chemistry and Physics of Lipids</i> , <b>2009</b> , 158, 46-53	3-7	44
61	Comparative study of the antimicrobial activity of bis(Nalpha-caproyl-L-arginine)-1,3-propanediamine dihydrochloride and chlorhexidine dihydrochloride against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2004</b> , 53, 101-108	5-1	44
60	Structural characterization and identification of cyclic lipopeptides produced by <i>Bacillus methylotrophicus</i> DCS1 strain. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2017</b> , 1060, 374-386	3-2	43
59	Rapid flow cytometry--Nile red assessment of PHA cellular content and heterogeneity in cultures of <i>Pseudomonas aeruginosa</i> 47T2 (NCIB 40044) grown in waste frying oil. <i>Antonie Van Leeuwenhoek</i> , <b>2001</b> , 80, 57-63	2-1	42
58	Membrane vesicles: a common feature in the extracellular matter of cold-adapted antarctic bacteria. <i>Microbial Ecology</i> , <b>2010</b> , 59, 476-86	4-4	40
57	Cellular lipid accumulation by <i>Pseudomonas aeruginosa</i> 44T1. <i>Applied Microbiology and Biotechnology</i> , <b>1991</b> , 35, 813-816	5-7	40
56	Biosurfactant production by AL 1.1, a <i>Bacillus licheniformis</i> strain isolated from Antarctica: production, chemical characterization and properties. <i>Annals of Microbiology</i> , <b>2015</b> , 65, 2065-2078	3-2	37
55	Nutritional requirements of a biosurfactant producing strain <i>Rhodococcus</i> sp 51T7. <i>Biotechnology Letters</i> , <b>1996</b> , 18, 521-526	3	37
54	Complex rhamnolipid mixture characterization and its influence on DPPC bilayer organization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 776-83	3-8	35
53	Biochemical characterization of the oxygenation of unsaturated fatty acids by the dioxygenase and hydroperoxide isomerase of <i>Pseudomonas aeruginosa</i> 42A2. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 9339-9345	5-4	34
52	Isolation and partial characterization of a biosurfactant mixture produced by <i>Sphingobacterium</i> sp. isolated from soil. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 361, 195-204	9-3	33
51	Interactions of a <i>Rhodococcus</i> sp. biosurfactant trehalose lipid with phosphatidylethanolamine membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 2806-13	3-8	33
50	Cloning and expression of a lipoyxygenase from <i>Pseudomonas aeruginosa</i> 42A2. <i>Antonie Van Leeuwenhoek</i> , <b>2005</b> , 87, 245-51	2-1	33
49	Differential behaviour of <i>Pseudomonas</i> sp. 42A2 LipC, a lipase showing greater versatility than its counterpart LipA. <i>Biochimie</i> , <b>2010</b> , 92, 307-16	4-6	32
48	Thermodynamic and structural changes associated with the interaction of a dirhamnolipid biosurfactant with bovine serum albumin. <i>Langmuir</i> , <b>2008</b> , 24, 6487-95	4	31
47	New cationic vesicles prepared with double chain surfactants from arginine: Role of the hydrophobic group on the antimicrobial activity and cytotoxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 141, 19-27	6	28
46	Isolation and characterization of a lipoyxygenase from <i>Pseudomonas</i> 42A2 responsible for the biotransformation of oleic acid into (S)-(E)-10-hydroxy-8-octadecenoic acid. <i>Antonie Van Leeuwenhoek</i> , <b>2004</b> , 85, 129-39	2-1	28
45	Assessment of antimicrobial activity of N-lauroyl arginate ethylester (LAEE) against <i>Yersinia enterocolitica</i> and <i>Lactobacillus plantarum</i> by flow cytometry and transmission electron microscopy. <i>Food Control</i> , <b>2016</b> , 63, 1-10	6-2	26

44	Interaction of a Rhodococcus sp. trehalose lipid biosurfactant with model proteins: thermodynamic and structural changes. <i>Langmuir</i> , <b>2012</b> , 28, 1381-90	4	26
43	Green Catanionic Gemini Surfactant-Lichenysin Mixture: Improved Surface, Antimicrobial, and Physiological Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22121-22131	9.5	25
42	In vitro study of the cytotoxicity and antiproliferative effects of surfactants produced by Sphingobacterium detergens. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 453, 433-40	6.5	24
41	Mixed monolayer of DPPC and lysine-based cationic surfactants: an investigation into the antimicrobial activity. <i>Langmuir</i> , <b>2013</b> , 29, 7912-21	4	24
40	Domain formation by a Rhodococcus sp. biosurfactant trehalose lipid incorporated into phosphatidylcholine membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2007</b> , 1768, 2596-604	3.8	24
39	Tryptophan-containing lipopeptide antibiotics derived from polymyxin B with activity against Gram positive and Gram negative bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 333-43	3.8	23
38	Shewanella vesiculosa sp. nov., a psychrotolerant bacterium isolated from an Antarctic coastal area. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2009</b> , 59, 336-40	2.2	23
37	Study of the crosslinking reaction (natural and UV induced) in polyunsaturated PHA from linseed oil. <i>Biochemical Engineering Journal</i> , <b>2008</b> , 40, 275-283	4.2	22
36	Rhamnolipid surfactants: alternative substrates, new strategies. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 672, 170-84	3.6	17
35	Sphingobacterium detergens sp. nov., a surfactant-producing bacterium isolated from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2012</b> , 62, 3036-3041	2.2	17
34	The production and physicochemical properties of a biosurfactant mixture obtained from Sphingobacterium detergens. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 394, 368-79	9.3	16
33	A new bacterial strain of Antarctica, Alteromonas sp. that produces a heteropolymer slime. <i>Polar Biology</i> , <b>1994</b> , 14, 561	2	16
32	Functional characterization of ExFadLO, an outer membrane protein required for exporting oxygenated long-chain fatty acids in Pseudomonas aeruginosa. <i>Biochimie</i> , <b>2013</b> , 95, 290-8	4.6	15
31	Natural estolides produced by Pseudomonas sp. 42A2 grown on oleic acid: Production and characterization. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2003</b> , 80, 859-866	1.8	15
30	Investigation of halotolerant marine Staphylococcus sp. CO100, as a promising hydrocarbon-degrading and biosurfactant-producing bacterium, under saline conditions. <i>Journal of Environmental Management</i> , <b>2021</b> , 277, 111480	7.9	14
29	Effects of a bacterial trehalose lipid on phosphatidylglycerol membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 2067-72	3.8	12
28	Rhamnolipids functionalized with basic amino acids: Synthesis, aggregation behavior, antibacterial activity and biodegradation studies. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 181, 234-243	6	11
27	Unveiling the genes responsible for the unique Pseudomonas aeruginosa oleate-diol synthase activity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2014</b> , 1842, 1360-71	5	11

26	Microscopic examination in vivo and in vitro of natural and cross-linked polyunsaturated mclPHA. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 587-96	5.7	11
25	Biotransformation of oleic acid into (E)-10-hydroxy-8-octadecenoic acid and (E)-7,10-dihydroxy-8-octadecenoic acid by <i>Pseudomonas</i> sp. 42A2 in an immobilized system. <i>Biotechnology Letters</i> , <b>2001</b> , 23, 215-219	3	11
24	Kinetic and Structural Aspects of the Permeabilization of Biological and Model Membranes by Lichenysin. <i>Langmuir</i> , <b>2016</b> , 32, 78-87	4	10
23	Rhamnolipids Obtained From a PHA-Negative Mutant of <i>Pseudomonas aeruginosa</i> 47T2 ΔD: Composition and Emulsifying Behavior. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2014</b> , 91, 503-511	1.8	10
22	Yield and kinetic constants estimation in the production of hydroxy fatty acids from oleic acid in a bioreactor by <i>Pseudomonas aeruginosa</i> 42A2. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 9609-2157	5.7	10
21	Liquid chromatography/tandem mass spectrometric analysis of 7,10-dihydroxyoctadecenoic acid, its isotopomers, and other 7,10-dihydroxy fatty acids formed by <i>Pseudomonas aeruginosa</i> 42A2. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 777-83	2.2	10
20	Production of 10(S)-hydroxy-8(E)-octadecenoic acid mono-estolides by lipases in non-aqueous media. <i>Process Biochemistry</i> , <b>2013</b> , 48, 224-230	4.8	9
19	Lichenysin-geminal amino acid-based surfactants: Synergistic action of an unconventional antimicrobial mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 149, 38-47	6	9
18	Membrane interaction of a new synthetic antimicrobial lipopeptide sp-85 with broad spectrum activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 480, 307-317	5.1	9
17	Poly(3-hydroxyalkanoate) produced from <i>Pseudomonas aeruginosa</i> 42A2 (NCBIM 40045): Effect of fatty acid nature as nutrient. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 2259-2263	3.9	9
16	Biotransformation of oleic acid into 10-hydroxy-8E-octadecenoic acid by <i>Pseudomonas</i> sp. 42A2. <i>Biotechnology Letters</i> , <b>1999</b> , 21, 1031-1035	3	9
15	In Silico/In Vivo Insights into the Functional and Evolutionary Pathway of <i>Pseudomonas aeruginosa</i> Oleate-Diol Synthase. Discovery of a New Bacterial Di-Heme Cytochrome C Peroxidase Subfamily. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131462	3.7	8
14	Chemoenzymatic synthesis and antimicrobial and haemolytic activities of amphiphilic bis(phenylacetylarginine) derivatives. <i>ChemMedChem</i> , <b>2006</b> , 1, 1091-8	3.7	8
13	Hydroxy-fatty acid production in a <i>Pseudomonas aeruginosa</i> 42A2 PHA synthase mutant generated by directed mutagenesis. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 2551-61	5.7	7
12	Fungal growth inhibitory properties of new phytosphingolipid analogues. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 104, 1075-81	4.7	7
11	Isolation and characterization of kurstakin and surfactin isoforms produced by <i>Enterobacter cloacae</i> C3 strain. <i>Journal of Mass Spectrometry</i> , <b>2019</b> , 54, 7-18	2.2	7
10	Utilization of Agro-industrial Residues for Poly(3-hydroxyalkanoate) Production by <i>Pseudomonas aeruginosa</i> 42A2 (NCIMB 40045): Optimization of Culture Medium. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2012</b> , 89, 111-122	1.8	5
9	Mono-Estolide Synthesis from trans-8-Hydroxy-Fatty Acids by Lipases in Solvent-Free Media and Their Physical Properties. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2015</b> , 92, 1125-1141	1.8	4



8	Effect of emulsified feeding of oily substrate via submerged ceramic membranes on surfactant production in <i>Pseudomonas aeruginosa</i> fermentation. <i>Bioprocess and Biosystems Engineering</i> , <b>2008</b> , 31, 401-9	3-7	4
7	Characterization and production of a new extracellular polymer from <i>Pseudomonas</i> sp. GSP-910. <i>Applied Microbiology and Biotechnology</i> , <b>1987</b> , 26, 347	5-7	4
6	Short and ultrashort antimicrobial peptides anchored onto soft commercial contact lenses inhibit bacterial adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111283	6	4
5	Production of 10(S)-hydroxy-8(E)-octadecenoic and 7,10(S,S)-hydroxy-8(E)-octadecenoic ethyl esters by Novozym 435 in solvent-free media. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 8041-8	5-7	2
4	Antifungal and antiprotozoal green amino acid-based rhamnolipids: Mode of action, antibiofilm efficiency and selective activity against resistant <i>Candida</i> spp. strains and <i>Acanthamoeba castellanii</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 193, 111148	6	1
3	Design, Synthesis and Activity of New Polymyxins. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 662	0-3	
2	Antimicrobial: Arginine and Lysine Conjugated Rhamnolipids. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 642	0-3	
1	Lipopeptide Antibiotics Derived from Polymyxin B with a Broad Spectrum of Activity: Membrane Interaction. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 654	0-3	