

# Magali Deleu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1559510/publications.pdf>

Version: 2024-02-01

83  
papers

3,853  
citations

136950

32  
h-index

138484

58  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4839  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactin and iturin A effects on <i>Bacillus subtilis</i> surface hydrophobicity. <i>Enzyme and Microbial Technology</i> , 2000, 27, 749-754.	3.2	247
2	Effect of Fengycin, a Lipopeptide Produced by <i>Bacillus subtilis</i> , on Model Biomembranes. <i>Biophysical Journal</i> , 2008, 94, 2667-2679.	0.5	194
3	Atomic force microscopy of supported lipid bilayers. <i>Nature Protocols</i> , 2008, 3, 1654-1659.	12.0	186
4	Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. <i>Science</i> , 2017, 358, 1431-1434.	12.6	167
5	The bacterial lipopeptide surfactin targets the lipid fraction of the plant plasma membrane to trigger immune-related defence responses. <i>Cellular Microbiology</i> , 2011, 13, 1824-1837.	2.1	148
6	Fengycin interaction with lipid monolayers at the air-liquid interface: implications for the effect of fengycin on biological membranes. <i>Journal of Colloid and Interface Science</i> , 2005, 283, 358-365.	9.4	146
7	Revisiting Plant Plasma Membrane Lipids in Tobacco: A Focus on Sphingolipids. <i>Plant Physiology</i> , 2016, 170, 367-384.	4.8	137
8	Structural basis for plant plasma membrane protein dynamics and organization into functional nanodomains. <i>ELife</i> , 2017, 6, .	6.0	135
9	From renewable vegetables resources to microorganisms: new trends in surfactants. <i>Comptes Rendus Chimie</i> , 2004, 7, 641-646.	0.5	131
10	Complementary biophysical tools to investigate lipid specificity in the interaction between bioactive molecules and the plasma membrane: A review. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 3171-3190.	2.6	129
11	Interfacial and emulsifying properties of lipopeptides from <i>Bacillus subtilis</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 152, 3-10.	4.7	108
12	Hemolytic activity of new linear surfactin analogs in relation to their physico-chemical properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1726, 87-95.	2.4	92
13	Multiple C2 domains and transmembrane region proteins (MCTPs) tether membranes at plasmodesmata. <i>EMBO Reports</i> , 2019, 20, e47182.	4.5	92
14	Effects of surfactin on membrane models displaying lipid phase separation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 801-815.	2.6	88
15	Penetration of Surfactin into Phospholipid Monolayers: Nanoscale Interfacial Organization. <i>Langmuir</i> , 2006, 22, 11337-11345.	3.5	87
16	The Surfactin-Like Lipopeptides From <i>Bacillus</i> spp.: Natural Biodiversity and Synthetic Biology for a Broader Application Range. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 623701.	4.1	87
17	Interfacial properties of oleosins and phospholipids from rapeseed for the stability of oil bodies in aqueous medium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 80, 125-132.	5.0	84
18	Interaction of Surfactin with Membranes: A Computational Approach. <i>Langmuir</i> , 2003, 19, 3377-3385.	3.5	80

#	ARTICLE	IF	CITATIONS
19	Nanometer Scale Organization of Mixed Surfactin/Phosphatidylcholine Monolayers. <i>Biophysical Journal</i> , 1999, 77, 2304-2310.	0.5	59
20	The Structure of Two Fengycins from <i>Bacillus subtilis</i> S499. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1999, 54, 859-866.	1.4	58
21	Plant-Pathogen Interactions: Underestimated Roles of Phyto-oxylipins. <i>Trends in Plant Science</i> , 2020, 25, 22-34.	8.8	57
22	Effect of the antibiotic azithromycin on thermotropic behavior of DOPC or DPPC bilayers. <i>Chemistry and Physics of Lipids</i> , 2006, 144, 108-116.	3.2	55
23	Computer Simulation of Surfactin Conformation at a Hydrophobic/Hydrophilic Interface. <i>Langmuir</i> , 1999, 15, 2409-2413.	3.5	53
24	New Amphiphilic Neamine Derivatives Active against Resistant <i>Pseudomonas aeruginosa</i> and Their Interactions with Lipopolysaccharides. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4420-4430.	3.2	52
25	Use of ionic liquids for biocatalytic synthesis of sugar derivatives. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 451-471.	3.2	47
26	Is It Possible to Predict the Odor of a Molecule on the Basis of its Structure?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3018.	4.1	44
27	Nanoscale membrane activity of surfactins: Influence of geometry, charge and hydrophobicity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2058-2068.	2.6	43
28	Exploring the Dual Interaction of Natural Rhamnolipids with Plant and Fungal Biomimetic Plasma Membranes through Biophysical Studies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1009.	4.1	43
29	Insights into the Relationships Between Herbicide Activities, Molecular Structure and Membrane Interaction of Cinnamon and Citronella Essential Oils Components. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4007.	4.1	42
30	Development of coated liposomes loaded with ghrelin for nose-to-brain delivery for the treatment of cachexia. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 8531-8543.	6.7	40
31	Characterization of the Interactions between Fluoroquinolone Antibiotics and Lipids: a Multitechnique Approach. <i>Biophysical Journal</i> , 2008, 94, 3035-3046.	0.5	38
32	Surfactin Protects Wheat against <i>Zymoseptoria tritici</i> and Activates Both Salicylic Acid- and Jasmonic Acid-Dependent Defense Responses. <i>Agriculture (Switzerland)</i> , 2018, 8, 11.	3.1	36
33	Membrane Interactions of Natural Cyclic Lipodepsipeptides of the Viscosin Group. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 331-339.	2.6	34
34	Imaging mixed lipid monolayers by dynamic atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1513, 55-62.	2.6	33
35	Negatively Charged Lipids as a Potential Target for New Amphiphilic Aminoglycoside Antibiotics. <i>Journal of Biological Chemistry</i> , 2016, 291, 13864-13874.	3.4	33
36	Recovery of fibers and biomethane from banana peduncles biomass through anaerobic digestion. <i>Energy for Sustainable Development</i> , 2017, 37, 60-65.	4.5	33

#	ARTICLE	IF	CITATIONS
37	Acylated and unacylated ghrelin binding to membranes and to ghrelin receptor: Towards a better understanding of the underlying mechanisms. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 2102-2113.	2.6	31
38	Purification of pectin from apple pomace juice by using sodium caseinate and characterisation of their binding by isothermal titration calorimetry. <i>Food Hydrocolloids</i> , 2012, 29, 211-218.	10.7	29
39	Could saponins be used to enhance bioremediation of polycyclic aromatic hydrocarbons in aged-contaminated soils?. <i>Chemosphere</i> , 2018, 194, 414-421.	8.2	27
40	Synthetic Rhamnolipid Bolaforms trigger an innate immune response in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2018, 8, 8534.	3.3	25
41	Surfactin Stimulated by Pectin Molecular Patterns and Root Exudates Acts as a Key Driver of the <i>Bacillus</i> -Plant Mutualistic Interaction. <i>MBio</i> , 2021, 12, e0177421.	4.1	25
42	d-Xylose and l-rabinose laurate esters: Enzymatic synthesis, characterization and physico-chemical properties. <i>Enzyme and Microbial Technology</i> , 2018, 112, 14-21.	3.2	24
43	Bioethanol potential of raw and hydrothermally pretreated banana bulbs biomass in simultaneous saccharification and fermentation process with <i>Saccharomyces cerevisiae</i> . <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 553-563.	4.6	24
44	Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100602.	3.4	24
45	Interaction between the barley allelochemical compounds gramine and hordenine and artificial lipid bilayers mimicking the plant plasma membrane. <i>Scientific Reports</i> , 2018, 8, 9784.	3.3	23
46	Effect of lipopeptides and iontophoresis on aciclovir skin delivery. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 702-708.	2.4	22
47	Influence of environmental conditions on the interfacial organisation of fengycin, a bioactive lipopeptide produced by <i>Bacillus subtilis</i> . <i>Journal of Colloid and Interface Science</i> , 2009, 329, 253-264.	9.4	21
48	Synthesis and physico-chemical characterization of bolaamphiphiles derived from alkenyl d-xylosides. <i>New Journal of Chemistry</i> , 2011, 35, 2258.	2.8	21
49	Enhancing the Membranolytic Activity of <i>Chenopodium quinoa</i> Saponins by Fast Microwave Hydrolysis. <i>Molecules</i> , 2020, 25, 1731.	3.8	21
50	How different sterols contribute to saponin tolerant plasma membranes in sea cucumbers. <i>Scientific Reports</i> , 2018, 8, 10845.	3.3	20
51	Differential Interaction of Synthetic Glycolipids with Biomimetic Plasma Membrane Lipids Correlates with the Plant Biological Response. <i>Langmuir</i> , 2017, 33, 9979-9987.	3.5	19
52	Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. <i>Waste and Biomass Valorization</i> , 2020, 11, 2183-2192.	3.4	19
53	Interactions Between Natural Herbicides and Lipid Bilayers Mimicking the Plant Plasma Membrane. <i>Frontiers in Plant Science</i> , 2019, 10, 329.	3.6	18
54	A TSPO-related protein localizes to the early secretory pathway in <i>Arabidopsis</i> , but is targeted to mitochondria when expressed in yeast. <i>Journal of Experimental Botany</i> , 2011, 62, 497-508.	4.8	17

#	ARTICLE	IF	CITATIONS
55	Changes in membrane biophysical properties induced by the Budesonide/Hydroxypropyl- $\beta$ -cyclodextrin complex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1930-1940.	2.6	17
56	Triterpenoids in Echinoderms: Fundamental Differences in Diversity and Biosynthetic Pathways. <i>Marine Drugs</i> , 2019, 17, 352.	4.6	17
57	Bolaamphiphiles Derived from Alkenyl L-Rhamnosides and Alkenyl D-Xylosides: Importance of the Hydrophilic Head. <i>Molecules</i> , 2013, 18, 6101-6112.	3.8	16
58	Effect of xylose on the structural and physicochemical properties of peanut isolated protein based films. <i>RSC Advances</i> , 2017, 7, 52357-52365.	3.6	16
59	<i>Cynara cardunculus</i> Crude Extract as a Powerful Natural Herbicide and Insight into the Mode of Action of Its Bioactive Molecules. <i>Biomolecules</i> , 2020, 10, 209.	4.0	16
60	Interactions of sugar-based bolaamphiphiles with biomimetic systems of plasma membranes. <i>Biochimie</i> , 2016, 130, 23-32.	2.6	15
61	The activity of the saponin ginsenoside Rh2 is enhanced by the interaction with membrane sphingomyelin but depressed by cholesterol. <i>Scientific Reports</i> , 2019, 9, 7285.	3.3	15
62	Enzymatic synthesis and surface properties of novel rhamnolipids. <i>Process Biochemistry</i> , 2013, 48, 133-143.	3.7	14
63	Interaction of fengycin with stratum corneum mimicking model membranes: A calorimetry study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 27-35.	5.0	14
64	A compartmentalized microsystem helps understanding the uptake of benzo[a]pyrene by fungi during soil bioremediation processes. <i>Science of the Total Environment</i> , 2021, 784, 147151.	8.0	14
65	d-xylose-based bolaamphiphiles: Synthesis and influence of the spacer nature on their interfacial and membrane properties. <i>Comptes Rendus Chimie</i> , 2012, 15, 68-74.	0.5	13
66	Linoleic and linolenic acid hydroperoxides interact differentially with biomimetic plant membranes in a lipid specific manner. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 384-391.	5.0	13
67	Probing peptide-membrane interactions using AFM. <i>Surface and Interface Analysis</i> , 2008, 40, 151-156.	1.8	12
68	Analysis of calcium-induced effects on the conformation of fengycin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 450-457.	3.9	12
69	Comparative biochemical methane potential of some varieties of residual banana biomass and renewable energy potential. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 167-177.	4.6	12
70	Protoplast: A Valuable Toolbox to Investigate Plant Stress Perception and Response. <i>Frontiers in Plant Science</i> , 2021, 12, 749581.	3.6	12
71	Alkylbetainate chlorides: Synthesis and behavior of monolayers at the air-water interface. <i>Thin Solid Films</i> , 2011, 520, 344-350.	1.8	11
72	(TRANS)ESTERIFICATION OF MANNOSE CATALYZED BY LIPASE B FROM <i>Candida antarctica</i> IN AN IMPROVED REACTION MEDIUM USING CO-SOLVENTS AND MOLECULAR SIEVE. <i>Preparative Biochemistry and Biotechnology</i> , 2012, 42, 348-363.	1.9	11

#	ARTICLE	IF	CITATIONS
73	Contributions and Limitations of Biophysical Approaches to Study of the Interactions between Amphiphilic Molecules and the Plant Plasma Membrane. <i>Plants</i> , 2020, 9, 648.	3.5	11
74	Deciphering the role of plant plasma membrane lipids in response to invasion patterns: how could biology and biophysics help?. <i>Journal of Experimental Botany</i> , 2022, 73, 2765-2784.	4.8	8
75	A stereocontrolled synthesis of the hydrophobic moiety of rhamnolipids. <i>Tetrahedron Letters</i> , 2015, 56, 1159-1161.	1.4	7
76	The Trypanosoma Brucei KIFC1 Kinesin Ensures the Fast Antibody Clearance Required for Parasite Infectivity. <i>IScience</i> , 2020, 23, 101476.	4.1	6
77	Surface properties of new virginiamycin M1 derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 69, 268-275.	5.0	5
78	Carbohydrate-carbohydrate interaction drives the preferential insertion of dirhamnolipid into glycosphingolipid enriched membranes. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 739-748.	9.4	4
79	Insight into the Self-Assembling Properties of Peptergents: A Molecular Dynamics Simulation Study. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2772.	4.1	3
80	Molecular Model for the Self-Assembly of the Cyclic Lipodepsipeptide Pseudodesmin A. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8916-8922.	2.6	2
81	Recycling Mitsunobu coupling: a shortcut for troublesome esterifications. <i>Tetrahedron</i> , 2016, 72, 7488-7495.	1.9	1
82	Structure and thermal properties of arachin from six varieties: effect of 35.5 kDa subunit. <i>International Journal of Food Properties</i> , 2020, 23, 908-917.	3.0	1
83	Modulation of plant plasma membrane structure by exogenous fatty acid hydroperoxide is a potential perception mechanism for their eliciting activity. <i>Plant, Cell and Environment</i> , 2022, 45, 1082-1095.	5.7	1