Magali Deleu

List of Publications by Year
in descending order

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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	Deciphering the role of plant plasma membrane lipids in response to invasion patterns: how could biology and biophysics help?. Journal of Experimental Botany, 2022, 73, 2765-2784.	4.8	8
2	Modulation of plant plasma membrane structure by exogenous fatty acid hydroperoxide is a potential perception mechanism for their eliciting activity. Plant, Cell and Environment, 2022, 45, 1082-1095.	5.7	1
3	Carbohydrate-carbohydrate interaction drives the preferential insertion of dirhamnolipid into glycosphingolipid enriched membranes. Journal of Colloid and Interface Science, 2022, 616, 739-748.	9.4	4
4	Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. Journal of Biological Chemistry, 2021, 296, 100602.	3.4	24
5	The Surfactin-Like Lipopeptides From Bacillus spp.: Natural Biodiversity and Synthetic Biology for a Broader Application Range. Frontiers in Bioengineering and Biotechnology, 2021, 9, 623701.	4.1	87
6	A compartmentalized microsystem helps understanding the uptake of benzo[a]pyrene by fungi during soil bioremediation processes. Science of the Total Environment, 2021, 784, 147151.	8.0	14
7	Protoplast: A Valuable Toolbox to Investigate Plant Stress Perception and Response. Frontiers in Plant Science, 2021, 12, 749581.	3.6	12
8	Surfactin Stimulated by Pectin Molecular Patterns and Root Exudates Acts as a Key Driver of the <i>Bacillus</i> -Plant Mutualistic Interaction. MBio, 2021, 12, e0177421.	4.1	25
9	Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. Waste and Biomass Valorization, 2020, 11, 2183-2192.	3.4	19
10	Plantâ€“Pathogen Interactions: Underestimated Roles of Phyto-oxylipins. Trends in Plant Science, 2020, 25, 22-34.	8.8	57
11	The Trypanosoma Brucei KIFC1 Kinesin Ensures the Fast Antibody Clearance Required for Parasite Infectivity. IScience, 2020, 23, 101476.	4.1	6
12	Structure and thermal properties of arachin from six varieties: effect of 35.5 kDa subunit. International Journal of Food Properties, 2020, 23, 908-917.	3.0	1
13	Cynara cardunculus Crude Extract as a Powerful Natural Herbicide and Insight into the Mode of Action of Its Bioactive Molecules. Biomolecules, 2020, 10, 209.	4.0	16
14	Enhancing the Membranolytic Activity of Chenopodium quinoa Saponins by Fast Microwave Hydrolysis. Molecules, 2020, 25, 1731.	3.8	21
15	Contributions and Limitations of Biophysical Approaches to Study of the Interactions between Amphiphilic Molecules and the Plant Plasma Membrane. Plants, 2020, 9, 648.	3.5	11
16	Multiple C2 domains and transmembrane region proteins (<scp>MCTP</scp> s) tether membranes at plasmodesmata. EMBO Reports, 2019, 20, e47182.	4.5	92
17	Insights into the Relationships Between Herbicide Activities, Molecular Structure and Membrane Interaction of Cinnamon and Citronella Essential Oils Components. International Journal of Molecular Sciences, 2019, 20, 4007.	4.1	42
18	Molecular Model for the Self-Assembly of the Cyclic Lipodepsipeptide Pseudodesmin A. Journal of Physical Chemistry B, 2019, 123, 8916-8922.	2.6	2

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19	The activity of the saponin ginsenoside Rh2 is enhanced by the interaction with membrane sphingomyelin but depressed by cholesterol. Scientific Reports, 2019, 9, 7285.	3.3	15
20	Triterpenoids in Echinoderms: Fundamental Differences in Diversity and Biosynthetic Pathways. Marine Drugs, 2019, 17, 352.	4.6	17
21	Is It Possible to Predict the Odor of a Molecule on the Basis of its Structure?. International Journal of Molecular Sciences, 2019, 20, 3018.	4.1	44
22	Exploring the Dual Interaction of Natural Rhamnolipids with Plant and Fungal Biomimetic Plasma Membranes through Biophysical Studies. International Journal of Molecular Sciences, 2019, 20, 1009.	4.1	43
23	Interactions Between Natural Herbicides and Lipid Bilayers Mimicking the Plant Plasma Membrane. Frontiers in Plant Science, 2019, 10, 329.	3.6	18
24	Bioethanol potential of raw and hydrothermally pretreated banana bulbs biomass in simultaneous saccharification and fermentation process with Saccharomyces cerevisiae. Biomass Conversion and Biorefinery, 2019, 9, 553-563.	4.6	24
25	Linoleic and linolenic acid hydroperoxides interact differentially with biomimetic plant membranes in a lipid specific manner. Colloids and Surfaces B: Biointerfaces, 2019, 175, 384-391.	5.0	13
26	d-Xylose and l-arabinose laurate esters: Enzymatic synthesis, characterization and physico-chemical properties. Enzyme and Microbial Technology, 2018, 112, 14-21.	3.2	24
27	Could saponins be used to enhance bioremediation of polycyclic aromatic hydrocarbons in aged-contaminated soils?. Chemosphere, 2018, 194, 414-421.	8.2	27
28	Insight into the Self-Assembling Properties of Peptergents: A Molecular Dynamics Simulation Study. International Journal of Molecular Sciences, 2018, 19, 2772.	4.1	3
29	Surfactin Protects Wheat against Zymoseptoria tritici and Activates Both Salicylic Acid- and Jasmonic Acid-Dependent Defense Responses. Agriculture (Switzerland), 2018, 8, 11.	3.1	36
30	Interaction between the barley allelochemical compounds gramine and hordenine and artificial lipid bilayers mimicking the plant plasma membrane. Scientific Reports, 2018, 8, 9784.	3.3	23
31	How different sterols contribute to saponin tolerant plasma membranes in sea cucumbers. Scientific Reports, 2018, 8, 10845.	3.3	20
32	Synthetic Rhamnolipid Bolaforms trigger an innate immune response in Arabidopsis thaliana. Scientific Reports, 2018, 8, 8534.	3.3	25
33	Recovery of fibers and biomethane from banana peduncles biomass through anaerobic digestion. Energy for Sustainable Development, 2017, 37, 60-65.	4.5	33
34	Membrane Interactions of Natural Cyclic Lipodepsipeptides of the Viscosin Group. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 331-339.	2.6	34
35	Differential Interaction of Synthetic Glycolipids with Biomimetic Plasma Membrane Lipids Correlates with the Plant Biological Response. Langmuir, 2017, 33, 9979-9987.	3.5	19
36	Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. Science, 2017, 358, 1431-1434.	12.6	167

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37	Effect of xylose on the structural and physicochemical properties of peanut isolated protein based films. RSC Advances, 2017, 7, 52357-52365.	3.6	16
38	Changes in membrane biophysical properties induced by the Budesonide/Hydroxypropyl-Î²-cyclodextrin complex. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1930-1940.	2.6	17
39	Comparative biochemical methane potential of some varieties of residual banana biomass and renewable energy potential. Biomass Conversion and Biorefinery, 2017, 7, 167-177.	4.6	12
40	Structural basis for plant plasma membrane protein dynamics and organization into functional nanodomains. ELife, 2017, 6, .	6.0	135
41	Development of coated liposomes loaded with ghrelin for nose-to-brain delivery for the treatment of cachexia. International Journal of Nanomedicine, 2017, Volume 12, 8531-8543.	6.7	40
42	Negatively Charged Lipids as a Potential Target for New Amphiphilic Aminoglycoside Antibiotics. Journal of Biological Chemistry, 2016, 291, 13864-13874.	3.4	33
43	Interactions of sugar-based bolaamphiphiles with biomimetic systems of plasma membranes. Biochimie, 2016, 130, 23-32.	2.6	15
44	Recycling Mitsunobu coupling: a shortcut for troublesome esterifications. Tetrahedron, 2016, 72, 7488-7495.	1.9	1
45	Revisiting Plant Plasma Membrane Lipids in Tobacco: A Focus on Sphingolipids. Plant Physiology, 2016, 170, 367-384.	4.8	137
46	A stereocontrolled synthesis of the hydrophobic moiety of rhamnolipids. Tetrahedron Letters, 2015, 56, 1159-1161.	1.4	7
47	New Amphiphilic Neamine Derivatives Active against Resistant Pseudomonas aeruginosa and Their Interactions with Lipopolysaccharides. Antimicrobial Agents and Chemotherapy, 2014, 58, 4420-4430.	3.2	52
48	Complementary biophysical tools to investigate lipid specificity in the interaction between bioactive molecules and the plasma membrane: A review. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 3171-3190.	2.6	129
49	Interaction of fengycin with stratum corneum mimicking model membranes: A calorimetry study. Colloids and Surfaces B: Biointerfaces, 2014, 121, 27-35.	5.0	14
50	Enzymatic synthesis and surface properties of novel rhamnolipids. Process Biochemistry, 2013, 48, 133-143.	3.7	14
51	Analysis of calcium-induced effects on the conformation of fengycin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 450-457.	3.9	12
52	Effects of surfactin on membrane models displaying lipid phase separation. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 801-815.	2.6	88
53	Bolaamphiphiles Derived from Alkenyl L-Rhamnosides and Alkenyl D-Xylosides: Importance of the Hydrophilic Head. Molecules, 2013, 18, 6101-6112.	3.8	16
54	d-xylose-based bolaamphiphiles: Synthesis and influence of the spacer nature on their interfacial and membrane properties. Comptes Rendus Chimie, 2012, 15, 68-74.	0.5	13

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55	(TRANS)ESTERIFICATION OF MANNOSE CATALYZED BY LIPASE B FROMCandida antarcticaIN AN IMPROVED REACTION MEDIUM USING CO-SOLVENTS AND MOLECULAR SIEVE. Preparative Biochemistry and Biotechnology, 2012, 42, 348-363.	1.9	11
56	Purification of pectin from apple pomace juice by using sodium caseinate and characterisation of their binding by isothermal titration calorimetry. Food Hydrocolloids, 2012, 29, 211-218.	10.7	29
57	Use of ionic liquids for biocatalytic synthesis of sugar derivatives. Journal of Chemical Technology and Biotechnology, 2012, 87, 451-471.	3.2	47
58	Synthesis and physico-chemical characterization of bolaamphiphiles derived from alkenyl d-xylosides. New Journal of Chemistry, 2011, 35, 2258.	2.8	21
59	The bacterial lipopeptide surfactin targets the lipid fraction of the plant plasma membrane to trigger immune-related defence responses. Cellular Microbiology, 2011, 13, 1824-1837.	2.1	148
60	Alkylbetainate chlorides: Synthesis and behavior of monolayers at the airâ€“water interface. Thin Solid Films, 2011, 520, 344-350.	1.8	11
61	A TSPO-related protein localizes to the early secretory pathway in Arabidopsis, but is targeted to mitochondria when expressed in yeast. Journal of Experimental Botany, 2011, 62, 497-508.	4.8	17
62	Effect of lipopeptides and iontophoresis on aciclovir skin delivery. Journal of Pharmacy and Pharmacology, 2010, 62, 702-708.	2.4	22
63	Interfacial properties of oleosins and phospholipids from rapeseed for the stability of oil bodies in aqueous medium. Colloids and Surfaces B: Biointerfaces, 2010, 80, 125-132.	5.0	84
64	Acylated and unacylated ghrelin binding to membranes and to ghrelin receptor: Towards a better understanding of the underlying mechanisms. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 2102-2113.	2.6	31
65	Influence of environmental conditions on the interfacial organisation of fengycin, a bioactive lipopeptide produced by Bacillus subtilis. Journal of Colloid and Interface Science, 2009, 329, 253-264.	9.4	21
66	Surface properties of new virginiamycin M1 derivatives. Colloids and Surfaces B: Biointerfaces, 2009, 69, 268-275.	5.0	5
67	Probing peptideâ€“membrane interactions using AFM. Surface and Interface Analysis, 2008, 40, 151-156.	1.8	12
68	Atomic force microscopy of supported lipid bilayers. Nature Protocols, 2008, 3, 1654-1659.	12.0	186
69	Effect of Fengycin, a Lipopeptide Produced by Bacillus subtilis, on Model Biomembranes. Biophysical Journal, 2008, 94, 2667-2679.	0.5	194
70	Characterization of the Interactions between Fluoroquinolone Antibiotics and Lipids: a Multitechnique Approach. Biophysical Journal, 2008, 94, 3035-3046.	0.5	38
71	Nanoscale membrane activity of surfactins: Influence of geometry, charge and hydrophobicity. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2058-2068.	2.6	43
72	Penetration of Surfactin into Phospholipid Monolayers:Â Nanoscale Interfacial Organization. Langmuir, 2006, 22, 11337-11345.	3.5	87

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73	Effect of the antibiotic azithromycin on thermotropic behavior of DOPC or DPPC bilayers. Chemistry and Physics of Lipids, 2006, 144, 108-116.	3.2	55
74	Fengycin interaction with lipid monolayers at the airâ€"aqueous interfaceâ€"implications for the effect of fengycin on biological membranes. Journal of Colloid and Interface Science, 2005, 283, 358-365.	9.4	146
75	Hemolytic activity of new linear surfactin analogs in relation to their physico-chemical properties. Biochimica Et Biophysica Acta - General Subjects, 2005, 1726, 87-95.	2.4	92
76	From renewable vegetables resources to microorganisms: new trends in surfactants. Comptes Rendus Chimie, 2004, 7, 641-646.	0.5	131
77	Interaction of Surfactin with Membranes: A Computational Approach. Langmuir, 2003, 19, 3377-3385.	3.5	80
78	Imaging mixed lipid monolayers by dynamic atomic force microscopy. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1513, 55-62.	2.6	33
79	Surfactin and iturin A effects on Bacillus subtilis surface hydrophobicity. Enzyme and Microbial Technology, 2000, 27, 749-754.	3.2	247
80	Interfacial and emulsifying properties of lipopeptides from Bacillus subtilis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 152, 3-10.	4.7	108
81	Computer Simulation of Surfactin Conformation at a Hydrophobic/Hydrophilic Interface. Langmuir, 1999, 15, 2409-2413.	3.5	53
82	Nanometer Scale Organization of Mixed Surfactin/Phosphatidylcholine Monolayers. Biophysical Journal, 1999, 77, 2304-2310.	0.5	59
83	The Structure of Two Fengycins from Bacillus subtilis S499. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 859-866.	1.4	58