# Magali Deleu

List of Publications by Year
in descending order



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|---|---|---|---|
| 83 papers | 3,853 citations | 136740 32 h-index | 138251 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 Bacillus subtilis surface hydrophobicity. Enzyme and Microbial Technology, 2000, 27, 749-754. | 1.6 | 247 |
| 2 | Effect of Fengycin, a Lipopeptide Produced by Bacillus subtilis, on Model Biomembranes. Biophysical Journal, 2008, 94, 2667-2679. | 0.2 | 194 |
| 3 | Atomic force microscopy of supported lipid bilayers. Nature Protocols, 2008, 3, 1654-1659. | 5.5 | 186 |
| 4 | Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. Science, 2017, 358, 1431-1434. | 6.0 | 167 |
| 5 | 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. | 1.1 | 148 |
| 6 | 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. | 5.0 | 146 |
| 7 | Revisiting Plant Plasma Membrane Lipids in Tobacco: A Focus on Sphingolipids. Plant Physiology, 2016, 170, 367-384. | 2.3 | 137 |
| 8 | Structural basis for plant plasma membrane protein dynamics and organization into functional nanodomains. ELife, 2017, 6, . | 2.8 | 135 |
| 9 | From renewable vegetables resources to microorganisms: new trends in surfactants. Comptes Rendus Chimie, 2004, 7, 641-646. | 0.2 | 131 |
| 10 | 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. | 1.4 | 129 |
| 11 | Interfacial and emulsifying properties of lipopeptides from Bacillus subtilis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 152, 3-10. | 2.3 | 108 |
| 12 | Hemolytic activity of new linear surfactin analogs in relation to their physico-chemical properties. Biochimica Et Biophysica Acta - General Subjects, 2005, 1726, 87-95. | 1.1 | 92 |
| 13 | Multiple C2 domains and transmembrane region proteins ( <scp>MCTP</scp> s) tether membranes at plasmodesmata. EMBO Reports, 2019, 20, e47182. | 2.0 | 92 |
| 14 | Effects of surfactin on membrane models displaying lipid phase separation. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 801-815. | 1.4 | 88 |
| 15 | Penetration of Surfactin into Phospholipid Monolayers:Â Nanoscale Interfacial Organization. Langmuir, 2006, 22, 11337-11345. | 1.6 | 87 |
| 16 | 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. | 2.0 | 87 |
| 17 | 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. | 2.5 | 84 |
| 18 | Interaction of Surfactin with Membranes: A Computational Approach. Langmuir, 2003, 19, 3377-3385. | 1.6 | 80 |

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|---|---|---|---|
| 19 | Nanometer Scale Organization of Mixed Surfactin/Phosphatidylcholine Monolayers. Biophysical Journal, 1999, 77, 2304-2310. | 0.2 | 59 |
| 20 | The Structure of Two Fengycins from Bacillus subtilis S499. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 859-866. | 0.6 | 58 |
| 21 | Plantâ€"Pathogen Interactions: Underestimated Roles of Phyto-oxylipins. Trends in Plant Science, 2020, 25, 22-34. | 4.3 | 57 |
| 22 | Effect of the antibiotic azithromycin on thermotropic behavior of DOPC or DPPC bilayers. Chemistry and Physics of Lipids, 2006, 144, 108-116. | 1.5 | 55 |
| 23 | Computer Simulation of Surfactin Conformation at a Hydrophobic/Hydrophilic Interface. Langmuir, 1999, 15, 2409-2413. | 1.6 | 53 |
| 24 | New Amphiphilic Neamine Derivatives Active against Resistant Pseudomonas aeruginosa and Their Interactions with Lipopolysaccharides. Antimicrobial Agents and Chemotherapy, 2014, 58, 4420-4430. | 1.4 | 52 |
| 25 | Use of ionic liquids for biocatalytic synthesis of sugar derivatives. Journal of Chemical Technology and Biotechnology, 2012, 87, 451-471. | 1.6 | 47 |
| 26 | Is It Possible to Predict the Odor of a Molecule on the Basis of its Structure?. International Journal of Molecular Sciences, 2019, 20, 3018. | 1.8 | 44 |
| 27 | Nanoscale membrane activity of surfactins: Influence of geometry, charge and hydrophobicity. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2058-2068. | 1.4 | 43 |
| 28 | 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. | 1.8 | 43 |
| 29 | 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. | 1.8 | 42 |
| 30 | 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. | 3.3 | 40 |
| 31 | Characterization of the Interactions between Fluoroquinolone Antibiotics and Lipids: a Multitechnique Approach. Biophysical Journal, 2008, 94, 3035-3046. | 0.2 | 38 |
| 32 | Surfactin Protects Wheat against Zymoseptoria tritici and Activates Both Salicylic Acid- and Jasmonic Acid-Dependent Defense Responses. Agriculture (Switzerland), 2018, 8, 11. | 1.4 | 36 |
| 33 | Membrane Interactions of Natural Cyclic Lipodepsipeptides of the Viscosin Group. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 331-339. | 1.4 | 34 |
| 34 | Imaging mixed lipid monolayers by dynamic atomic force microscopy. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1513, 55-62. | 1.4 | 33 |
| 35 | Negatively Charged Lipids as a Potential Target for New Amphiphilic Aminoglycoside Antibiotics. Journal of Biological Chemistry, 2016, 291, 13864-13874. | 1.6 | 33 |
| 36 | Recovery of fibers and biomethane from banana peduncles biomass through anaerobic digestion. Energy for Sustainable Development, 2017, 37, 60-65. | 2.0 | 33 |

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|---|---|---|---|
| 37 | 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. | 1.4 | 31 |
| 38 | 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. | 5.6 | 29 |
| 39 | Could saponins be used to enhance bioremediation of polycyclic aromatic hydrocarbons in aged-contaminated soils?. Chemosphere, 2018, 194, 414-421. | 4.2 | 27 |
| 40 | Synthetic Rhamnolipid Bolaforms trigger an innate immune response in Arabidopsis thaliana. Scientific Reports, 2018, 8, 8534. | 1.6 | 25 |
| 41 | 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. | 1.8 | 25 |
| 42 | d-Xylose and l-arabinose laurate esters: Enzymatic synthesis, characterization and physico-chemical properties. Enzyme and Microbial Technology, 2018, 112, 14-21. | 1.6 | 24 |
| 43 | 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. | 2.9 | 24 |
| 44 | Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. Journal of Biological Chemistry, 2021, 296, 100602. | 1.6 | 24 |
| 45 | Interaction between the barley allelochemical compounds gramine and hordenine and artificial lipid bilayers mimicking the plant plasma membrane. Scientific Reports, 2018, 8, 9784. | 1.6 | 23 |
| 46 | Effect of lipopeptides and iontophoresis on aciclovir skin delivery. Journal of Pharmacy and Pharmacology, 2010, 62, 702-708. | 1.2 | 22 |
| 47 | 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. | 5.0 | 21 |
| 48 | Synthesis and physico-chemical characterization of bolaamphiphiles derived from alkenyl d-xylosides. New Journal of Chemistry, 2011, 35, 2258. | 1.4 | 21 |
| 49 | Enhancing the Membranolytic Activity of Chenopodium quinoa Saponins by Fast Microwave Hydrolysis. Molecules, 2020, 25, 1731. | 1.7 | 21 |
| 50 | How different sterols contribute to saponin tolerant plasma membranes in sea cucumbers. Scientific Reports, 2018, 8, 10845. | 1.6 | 20 |
| 51 | Differential Interaction of Synthetic Glycolipids with Biomimetic Plasma Membrane Lipids Correlates with the Plant Biological Response. Langmuir, 2017, 33, 9979-9987. | 1.6 | 19 |
| 52 | Fractionation and Structural Characterization of Hemicellulose from Steam-Exploded Banana Rachis. Waste and Biomass Valorization, 2020, 11, 2183-2192. | 1.8 | 19 |
| 53 | Interactions Between Natural Herbicides and Lipid Bilayers Mimicking the Plant Plasma Membrane. Frontiers in Plant Science, 2019, 10, 329. | 1.7 | 18 |
| 54 | 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. | 2.4 | 17 |

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| 55 | Changes in membrane biophysical properties induced by the Budesonide/Hydroxypropyl-Î²-cyclodextrin complex. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1930-1940. | 1.4 | 17 |
| 56 | Triterpenoids in Echinoderms: Fundamental Differences in Diversity and Biosynthetic Pathways. Marine Drugs, 2019, 17, 352. | 2.2 | 17 |
| 57 | Bolaamphiphiles Derived from Alkenyl L-Rhamnosides and Alkenyl D-Xylosides: Importance of the Hydrophilic Head. Molecules, 2013, 18, 6101-6112. | 1.7 | 16 |
| 58 | Effect of xylose on the structural and physicochemical properties of peanut isolated protein based films. RSC Advances, 2017, 7, 52357-52365. | 1.7 | 16 |
| 59 | Cynara cardunculus Crude Extract as a Powerful Natural Herbicide and Insight into the Mode of Action of Its Bioactive Molecules. Biomolecules, 2020, 10, 209. | 1.8 | 16 |
| 60 | Interactions of sugar-based bolaamphiphiles with biomimetic systems of plasma membranes. Biochimie, 2016, 130, 23-32. | 1.3 | 15 |
| 61 | The activity of the saponin ginsenoside Rh2 is enhanced by the interaction with membrane sphingomyelin but depressed by cholesterol. Scientific Reports, 2019, 9, 7285. | 1.6 | 15 |
| 62 | Enzymatic synthesis and surface properties of novel rhamnolipids. Process Biochemistry, 2013, 48, 133-143. | 1.8 | 14 |
| 63 | Interaction of fengycin with stratum corneum mimicking model membranes: A calorimetry study. Colloids and Surfaces B: Biointerfaces, 2014, 121, 27-35. | 2.5 | 14 |
| 64 | 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. | 3.9 | 14 |
| 65 | d-xylose-based bolaamphiphiles: Synthesis and influence of the spacer nature on their interfacial and membrane properties. Comptes Rendus Chimie, 2012, 15, 68-74. | 0.2 | 13 |
| 66 | 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. | 2.5 | 13 |
| 67 | Probing peptideâ€"membrane interactions using AFM. Surface and Interface Analysis, 2008, 40, 151-156. | 0.8 | 12 |
| 68 | Analysis of calcium-induced effects on the conformation of fengycin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 450-457. | 2.0 | 12 |
| 69 | Comparative biochemical methane potential of some varieties of residual banana biomass and renewable energy potential. Biomass Conversion and Biorefinery, 2017, 7, 167-177. | 2.9 | 12 |
| 70 | Protoplast: A Valuable Toolbox to Investigate Plant Stress Perception and Response. Frontiers in Plant Science, 2021, 12, 749581. | 1.7 | 12 |
| 71 | Alkylbetainate chlorides: Synthesis and behavior of monolayers at the airâ€"water interface. Thin Solid Films, 2011, 520, 344-350. | 0.8 | 11 |
| 72 | (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. | 1.0 | 11 |

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| 73 | Contributions and Limitations of Biophysical Approaches to Study of the Interactions between Amphiphilic Molecules and the Plant Plasma Membrane. Plants, 2020, 9, 648. | 1.6 | 11 |
| 74 | 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. | 2.4 | 8 |
| 75 | A stereocontrolled synthesis of the hydrophobic moiety of rhamnolipids. Tetrahedron Letters, 2015, 56, 1159-1161. | 0.7 | 7 |
| 76 | The Trypanosoma Brucei KIFC1 Kinesin Ensures the Fast Antibody Clearance Required for Parasite Infectivity. IScience, 2020, 23, 101476. | 1.9 | 6 |
| 77 | Surface properties of new virginiamycin M1 derivatives. Colloids and Surfaces B: Biointerfaces, 2009, 69, 268-275. | 2.5 | 5 |
| 78 | Carbohydrate-carbohydrate interaction drives the preferential insertion of dirhamnolipid into glycosphingolipid enriched membranes. Journal of Colloid and Interface Science, 2022, 616, 739-748. | 5.0 | 4 |
| 79 | Insight into the Self-Assembling Properties of Peptergents: A Molecular Dynamics Simulation Study. International Journal of Molecular Sciences, 2018, 19, 2772. | 1.8 | 3 |
| 80 | Molecular Model for the Self-Assembly of the Cyclic Lipodepsipeptide Pseudodesmin A. Journal of Physical Chemistry B, 2019, 123, 8916-8922. | 1.2 | 2 |
| 81 | Recycling Mitsunobu coupling: a shortcut for troublesome esterifications. Tetrahedron, 2016, 72, 7488-7495. | 1.0 | 1 |
| 82 | Structure and thermal properties of arachin from six varieties: effect of 35.5 kDa subunit. International Journal of Food Properties, 2020, 23, 908-917. | 1.3 | 1 |
| 83 | 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. | 2.8 | 1 |