Natalia Wilke

List of Publications by Year
in descending order

54 papers	919 citations	394421 19 h-index	526287 27 g-index
56 all docs	56 docs citations	56 times ranked	885 citing authors

#	Article	IF	Citations
1	Sizes of lipid domains: What do we know from artificial lipid membranes? What are the possible shared features with membrane rafts in cells?. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 789-802.	2.6	75
2	Rheological Properties of a Two Phase Lipid Monolayer at the Air/Water Interface: Effect of the Composition of the Mixture. Langmuir, 2010, 26, 11050-11059.	3.5	45
3	Phase diagram of mixed monolayers of stearic acid and dimyristoylphosphatidylcholine. Effect of the acid ionization. Chemistry and Physics of Lipids, 2011, 164, 386-392.	3.2	45
4	Phase coexistence in films composed of DLPC and DPPC: A comparison between different model membrane systems. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1823-1831.	2.6	40
5	Composition-driven Surface Domain Structuring Mediated by Sphingolipids and Membrane-active Proteins. Cell Biochemistry and Biophysics, 2008, 50, 79-109.	1.8	33
6	The interfacial electrostatic potential modulates the insertion of cell-penetrating peptides into lipid bilayers. Physical Chemistry Chemical Physics, 2018, 20, 5180-5189.	2.8	33
7	The Influence of Domain Crowding on the Lateral Diffusion of Ceramide-Enriched Domains in a Sphingomyelin Monolayer. Journal of Physical Chemistry B, 2009, 113, 12844-12851.	2.6	31
8	The Presence of Sterols Favors Sticholysin I-Membrane Association and Pore Formation Regardless of Their Ability to Form Laterally Segregated Domains. Langmuir, 2015, 31, 9911-9923.	3.5	31
9	The interfacial properties of the peptide Polybia-MP1 and its interaction with DPPC are modulated by lateral electrostatic attractions. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 393-402.	2.6	30
10	On the Coupling between Mechanical Properties and Electrostatics in Biological Membranes. Membranes, 2021, 11, 478.	3.0	29
11	Modulation of the domain topography of biphasic monolayers of stearic acid and dimyristoyl phosphatidylcholine. Chemistry and Physics of Lipids, 2012, 165, 232-237.	3.2	27
12	Ascorbyl palmitate interaction with phospholipid monolayers: Electrostatic and rheological preponderancy. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2496-2505.	2.6	24
13	Hopanoids, like sterols, modulate dynamics, compaction, phase segregation and permeability of membranes. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 183060.	2.6	24
14	Effect of chitosan on distearoylphosphatidylglycerol films at air/water and liquid/liquid interfaces. Electrochimica Acta, 2013, 94, 124-133.	5.2	22
15	The Rheological Properties of Lipid Monolayers Modulate the Incorporation of <scp>l</scp>-Ascorbic Acid Alkyl Esters. Langmuir, 2016, 32, 587-595.	3.5	22
16	Effect of N-terminal acetylation on lytic activity and lipid-packing perturbation induced in model membranes by a mastoparan-like peptide. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 737-748.	2.6	22
17	Surface Phase Behavior and Domain Topography of Ascorbyl Palmitate Monolayers. Langmuir, 2011, 27, 10914-10919.	3.5	21
18	Lipid Monolayers at the Airâ€"Water Interface. Behavior Research Methods, 2014, 20, 51-81.	4.0	21

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19	The insertion of Polybia-MP1 peptide into phospholipid monolayers is regulated by its anionic nature and phase state. Chemistry and Physics of Lipids, 2017, 207, 38-48.	3.2	21
20	Interaction of a Polyarginine Peptide with Membranes of Different Mechanical Properties. Biomolecules, 2019, 9, 625.	4.0	21
21	Stiffness of Lipid Monolayers with Phase Coexistence. Langmuir, 2013, 29, 10807-10816.	3.5	20
22	Effect of externally applied electrostatic fields on the surface topography of ceramide-enriched domains in mixed monolayers with sphingomyelin. Biophysical Chemistry, 2006, 122, 36-42.	2.8	19
23	Negative Dipole Potentials and Carboxylic Polar Head Groups Foster the Insertion of Cell-Penetrating Peptides into Lipid Monolayers. Langmuir, 2018, 34, 3102-3111.	3.5	16
24	Hopanoids Like Sterols Form Compact but Fluid Films. Langmuir, 2019, 35, 9848-9857.	3.5	16
25	Surface Behavior of Sphingomyelins with Very Long Chain Polyunsaturated Fatty Acids and Effects of Their Conversion to Ceramides. Langmuir, 2014, 30, 4385-4395.	3.5	15
26	The rheological properties of beta amyloid Langmuir monolayers: Comparative studies with melittin peptide. Colloids and Surfaces B: Biointerfaces, 2016, 146, 180-187.	5.0	15
27	Low-cost equipment for electroformation of Giant Unilamellar Vesicles. HardwareX, 2018, 4, e00037.	2.2	15
28	Molecular determinants for the line tension of coexisting liquid phases in monolayers. Chemistry and Physics of Lipids, 2012, 165, 737-744.	3.2	13
29	Interaction of dextran derivatives with lipid monolayers and the consequential modulation of the film properties. Chemistry and Physics of Lipids, 2017, 204, 34-42.	3.2	13
30	Searching for line active molecules on biphasic lipid monolayers. Soft Matter, 2015, 11, 2147-2156.	2.7	12
31	Inter-Domain Interactions in Charged Lipid Monolayers. Journal of Physical Chemistry B, 2014, 118, 519-529.	2.6	11
32	Energetics of the Phase Transition in Free-Standing versus Supported Lipid Membranes. Journal of Physical Chemistry B, 2015, 119, 8718-8724.	2.6	11
33	Recovery from chilling modulates the acyl-editing of phosphatidic acid molecular species in barley roots (Hordeum vulgare L.). Plant Physiology and Biochemistry, 2021, 167, 862-873.	5.8	11
34	The surface organization of diacylglycerol pyrophosphate and its interaction with phosphatidic acid at the airâ€"water interface. Chemistry and Physics of Lipids, 2010, 163, 771-777.	3.2	10
35	Electrostatic interactions at the microscale modulate dynamics and distribution of lipids in bilayers. Soft Matter, 2017, 13, 686-694.	2.7	10
36	Electrostatic field effects on membrane domain segregation and on lateral diffusion. Biophysical Reviews, 2011, 3, 185-192.	3.2	9

#	Article	IF	Citations
37	Dipolar interactions between domains in lipid monolayers at the airâ€“water interface. Soft Matter, 2016, 12, 4769-4777.	2.7	9
38	Redox-active tyrosine residue in the microcin J25 molecule. Biochemical and Biophysical Research Communications, 2011, 406, 366-370.	2.1	8
39	Zn2+-dependent surface behavior of diacylglycerol pyrophosphate and its mixtures with phosphatidic acid at different pHs. Frontiers in Plant Science, 2014, 5, 371.	3.6	8
40	Regulation of phase boundaries and phase-segregated patterns in model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1972-1984.	2.6	8
41	Surface charge density and fatty acids enhance the membrane permeation rate of CPPâ€“cargo complexes. Soft Matter, 2020, 16, 9890-9898.	2.7	8
42	Somuncurins: Bioactive Peptides from the Skin of the Endangered Endemic Patagonian Frog Pleurodema somuncurense. Journal of Natural Products, 2020, 83, 972-984.	3.0	8
43	Triglyceride Lenses at the Airâ€“Water Interface as a Model System for Studying the Initial Stage in the Biogenesis of Lipid Droplets. Langmuir, 2021, 37, 10958-10970.	3.5	6
44	Mechanical Stability of Lipid Membranes Decorated with Dextran Sulfate. ACS Omega, 2018, 3, 11673-11683.	3.5	5
45	Influence of Ca2+ on the surface behavior of phosphatidic acid and its mixture with diacylglycerol pyrophosphate at different pHs. Chemistry and Physics of Lipids, 2020, 228, 104887.	3.2	5
46	The antimicrobial peptide Polybia-MP1 differentiates membranes with the hopanoid, diplopterol from those with cholesterol. BBA Advances, 2021, 1, 100002.	1.6	5
47	Wrinkled labyrinths in critical demixing ferrofluid. Soft Matter, 2017, 13, 7307-7311.	2.7	4
48	Electron-Transfer Processes at Electrodes Covered by Lipid Layers. Correlation with the Lipid Behavior at the Airâˆ’Water Interface. Langmuir, 2003, 19, 6876-6880.	3.5	3
49	N-terminal acetylation of a mastoparan-like peptide enhances PE/PG segregation in model membranes. Chemistry and Physics of Lipids, 2020, 232, 104975.	3.2	3
50	Molecular Explanation for the Abnormal Flux of Material into a Hot Spot in Ester Monolayers. Journal of Physical Chemistry B, 2017, 121, 5621-5632.	2.6	1
51	Combination of cyclic voltammetry and single-particle Brownian dynamics methodology to evaluate the fluidity of phospholipid monolayers at polarized liquid/liquid interfaces. Electrochimica Acta, 2018, 281, 611-618.	5.2	1
52	Hopanoid Hopene Locates in the Interior of Membranes and Affects Their Properties. Langmuir, 2021, 37, 11900-11908.	3.5	1
53	Ionic environment, thickness and line tension as determinants of phase separation in whole Purified Myelin Membranes monolayers. Colloids and Surfaces B: Biointerfaces, 2021, 207, 112027.	5.0	1
54	Line Tension in Lipid Monolayers with Liquid-Liquid Phase Coexistence. Biophysical Journal, 2012, 102, 95a.	0.5	0