PaweÅ, Wydro

List of Publications by Year in descending order

66 papers	1,635 citations	279798 23 h-index	315739 38 g-index
68 all docs	68 docs citations	68 times ranked	3814 citing authors

#	Article	IF	Citations
1	Chitosan as a Lipid Binder: A Langmuir Monolayer Study of Chitosanâ^'Lipid Interactions. Biomacromolecules, 2007, 8, 2611-2617.	5.4	169
2	The influence of fatty acids on model cholesterol/phospholipid membranes. Chemistry and Physics of Lipids, 2007, 150, 66-81.	3.2	116
3	Probing the Modes of Antibacterial Activity of Chitosan. Effects of pH and Molecular Weight on Chitosan Interactions with Membrane Lipids in Langmuir Films. Biomacromolecules, 2011, 12, 4144-4152.	5.4	114
4	The study on the interaction between phytosterols and phospholipids in model membranes. Chemistry and Physics of Lipids, 2007, 150, 22-34.	3.2	84
5	Variations in the Condensing Effect of Cholesterol on Saturated versus Unsaturated Phosphatidylcholines at Low and High Sterol Concentration. Langmuir, 2011, 27, 5433-5444.	3.5	67
6	Thermodynamic Description of the Interactions between Lipids in Ternary Langmuir Monolayers:Â the Study of Cholesterol Distribution in Membranes. Journal of Physical Chemistry B, 2007, 111, 2495-2502.	2.6	66
7	Chitosan as a subphase disturbant of membrane lipid monolayers. The effect of temperature at varying pH: I. DPPG. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 349-358.	4.7	48
8	Sphingomyelin/phosphatidylcholine/cholesterol monolayers â€“ analysis of the interactions in model membranes and Brewster Angle Microscopy experiments. Colloids and Surfaces B: Biointerfaces, 2012, 93, 174-179.	5.0	47
9	Chitosan as a subphase disturbant of membrane lipid monolayers. The effect of temperature at varying pH: II. DPPC and cholesterol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 359-364.	4.7	42
10	A study of the interaction of dodecyl sulfobetaine with cationic and anionic surfactant in mixed micelles and monolayers at the air/water interface. Journal of Colloid and Interface Science, 2005, 286, 387-391.	9.4	41
11	Cholesterol and phytosterols effect on sphingomyelin/phosphatidylcholine model membranesâ€"Thermodynamic analysis of the interactions in ternary monolayers. Journal of Colloid and Interface Science, 2009, 329, 265-272.	9.4	39
12	Interactions of Polyethylenimines with Zwitterionic and Anionic Lipid Membranes. Langmuir, 2016, 32, 5004-5018.	3.5	37
13	The interactions between phosphatidylglycerol and phosphatidylethanolamines in model bacterial membranes. Colloids and Surfaces B: Biointerfaces, 2009, 72, 32-39.	5.0	32
14	Molecular organization of bacterial membrane lipids in mixed systemsâ€"A comprehensive monolayer study combined with Grazing Incidence X-ray Diffraction and Brewster Angle Microscopy experiments. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1745-1754.	2.6	30
15	Does cholesterol preferentially pack in lipid domains with saturated sphingomyelin over phosphatidylcholine? A comprehensive monolayer study combined with grazing incidence X-ray diffraction and Brewster angle microscopy experiments. Journal of Colloid and Interface Science, 2013, 397, 122-130.	9.4	28
16	The influence of the size of the hydrophilic group on the miscibility of zwitterionic and nonionic surfactants in mixed monolayers and micelles. Journal of Colloid and Interface Science, 2007, 316, 107-113.	9.4	27
17	Edelfosine disturbs the sphingomyelinâ€"cholesterol model membrane system in a cholesterol-dependent way â€" The Langmuir monolayer study. Colloids and Surfaces B: Biointerfaces, 2011, 88, 635-640.	5.0	27
18	Label-Free Infrared Spectroscopy and Imaging of Single Phospholipid Bilayers with Nanoscale Resolution. Analytical Chemistry, 2018, 90, 10179-10186.	6.5	27

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19	Complex Behavior of Phosphatidylcholineâ€“Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation. Langmuir, 2019, 35, 5944-5956.	3.5	27
20	The influence of cardiolipin on phosphatidylglycerol/phosphatidylethanolamine monolayersâ€”Studies on ternary films imitating bacterial membranes. Colloids and Surfaces B: Biointerfaces, 2013, 106, 217-223.	5.0	26
21	Investigation of the interactions of lupane type pentacyclic triterpenes with outer leaflet membrane phospholipids â€“ Langmuir monolayer and synchrotron X-ray scattering study. Journal of Colloid and Interface Science, 2012, 381, 116-124.	9.4	25
22	Studies on the interactions between parabens and lipid membrane components in monolayers at the air/aqueous solution interface. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 836-844.	2.6	24
23	Polycyclic aromatic hydrocarbons in model bacterial membranes â€“ Langmuir monolayer studies. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 2402-2412.	2.6	24
24	Interactions of serum with polyelectrolyte-stabilized liposomes: Cryo-TEM studies. Colloids and Surfaces B: Biointerfaces, 2014, 120, 152-159.	5.0	23
25	Bilayer structures in dioctadecyldimethylammonium bromide/oleic acid dispersions. Chemistry and Physics of Lipids, 2011, 164, 359-367.	3.2	22
26	Effects of water soluble perfluorinated pollutants on phospholipids in model soil decomposer membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2576-2587.	2.6	22
27	The interactions between cholesterol and phospholipids located in the inner leaflet of humane erythrocytes membrane (DPPE and DPPS) in binary and ternary filmsâ€”The effect of sodium and calcium ions. Colloids and Surfaces B: Biointerfaces, 2011, 82, 209-216.	5.0	21
28	Studies on the interactions of anticancer drug - Minerval - with membrane lipids in binary and ternary Langmuir monolayers. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2329-2336.	2.6	21
29	Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study. Journal of Physical Chemistry B, 2015, 119, 10042-10051.	2.6	20
30	Behavior of Platelet Activating Factor in Membrane-Mimicking Environment. Langmuir Monolayer Study Complemented with Grazing Incidence X-ray Diffraction and Brewster Angle Microscopy. Journal of Physical Chemistry B, 2012, 116, 10842-10855.	2.6	19
31	Effects of Membrane PEGylation on Entry and Location of Antifungal Drug Itraconazole and Their Pharmacological Implications. Molecular Pharmaceutics, 2017, 14, 1057-1070.	4.6	19
32	The impact of Î²-myrcene â€“ the main component of the hop essential oil â€“ on the lipid films. Journal of Molecular Liquids, 2020, 308, 113028.	4.9	19
33	The magnitude of condensation induced by cholesterol on the mixtures of sphingomyelin with phosphatidylcholinesâ€”Study on ternary and quaternary systems. Colloids and Surfaces B: Biointerfaces, 2011, 82, 594-601.	5.0	17
34	The influence of cholesterol on multicomponent Langmuir monolayers imitating outer and inner leaflet of human erythrocyte membrane. Colloids and Surfaces B: Biointerfaces, 2013, 103, 67-74.	5.0	16
35	The role of phospholipid composition and ergosterol presence in the adaptation of fungal membranes to harsh environmental conditionsâ€“membrane modeling study. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183136.	2.6	16
36	Studies on the interactions of bisphenols with anionic phospholipids of decomposer membranes in model systems. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 756-766.	2.6	15

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37	The influence of terpinen-4-ol and eucalyptol â€“ The essential oil components - on fungi and plant sterol monolayers. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1093-1102.	2.6	14
38	Effect of trace amounts of ionic surfactants on the zeta potential of DPPC liposomes. Chemistry and Physics of Lipids, 2021, 235, 105059.	3.2	14
39	The effect of the polyethylene glycol chain length of a lipopolymer (DSPE-PEGn) on the properties of DPPC monolayers and bilayers. Journal of Molecular Liquids, 2021, 335, 116529.	4.9	14
40	Grazing Incidence X-ray Diffraction and Brewster Angle Microscopy studies on domain formation in phosphatidylethanolamine/cholesterol monolayers imitating the inner layer of human erythrocyte membrane. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1415-1423.	2.6	11
41	Lyso-phosphatidylcholines in Langmuir monolayers â€“ Influence of chain length on physicochemical characteristics of single-chained lipids. Journal of Colloid and Interface Science, 2014, 418, 20-30.	9.4	11
42	Crucial Role of the Double Bond Isomerism in the Steroid B-Ring on the Membrane Properties of Sterols. Grazing Incidence X-Ray Diffraction and Brewster Angle Microscopy Studies. Langmuir, 2015, 31, 7364-7373.	3.5	11
43	Influence of Parabens on Bacteria and Fungi Cellular Membranes: Studies in Model Two-Dimensional Lipid Systems. Journal of Physical Chemistry B, 2018, 122, 2332-2340.	2.6	11
44	Towards the understanding of the behavior of single-chained ether phospholipids in model biomembranes: Interactions with phosphatidylethanolamines in Langmuir monolayers. Colloids and Surfaces B: Biointerfaces, 2012, 97, 162-170.	5.0	10
45	The comparison of zymosterol vs cholesterol membrane properties â€“The effect of zymosterol on lipid monolayers. Colloids and Surfaces B: Biointerfaces, 2014, 123, 524-532.	5.0	10
46	The composition of phospholipid model bacterial membranes determines their endurance to secretory phospholipase A2 attack â€“ The role of cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183239.	2.6	10
47	Interactions between single-chained ether phospholipids and sphingomyelin in mixed monolayers at the air/water interfaceâ€”Grazing incidence X-ray diffraction and Brewster angle microscopy studies. Colloids and Surfaces B: Biointerfaces, 2013, 111, 43-51.	5.0	9
48	The influence of 2-hydroxyoleic acid â€“ an anticancer drug â€“ on model membranes of different fluidity modulated by the cholesterol content. Journal of Molecular Liquids, 2019, 283, 756-762.	4.9	9
49	Comparative Characteristics of Membrane-Active Single-Chained Ether Phospholipids: PAF and Lyso-PAF in Langmuir Monolayers. Journal of Physical Chemistry B, 2012, 116, 3155-3163.	2.6	8
50	Grazing incidence diffraction studies of the interactions between ursane-type antimicrobial triterpenes and bacterial anionic phospholipids. Colloids and Surfaces B: Biointerfaces, 2015, 128, 561-567.	5.0	8
51	Effect of Cd 2+ and Cd 2+ /auxin mixtures on lipid monolayers â€“ Model membrane studies on the role of auxins in phytoremediation of metal ions from contaminated environment. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1164-1171.	2.6	8
52	Cholesterol as a factor regulating the influence of natural (PAF and lysoPAF) vs synthetic (ED) ether lipids on model lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2700-2708.	2.6	7
53	Characteristics of the influence of auxins on physicochemical properties of membrane phospholipids in monolayers at the air/aqueous solution interface. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1131-1138.	5.0	6
54	Influence of Cationic Phosphatidylcholine Derivative on Monolayer and Bilayer Artificial Bacterial Membranes. Langmuir, 2018, 34, 5097-5105.	3.5	6

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55	Effects of Polychlorinated Pesticides and Their Metabolites on Phospholipid Organization in Model Microbial Membranes. Journal of Physical Chemistry B, 2018, 122, 12017-12030.	2.6	6
56	Studies on the Interactions of 2-Hydroxyoleic Acid with Monolayers and Bilayers Containing Cationic Lipid: Searching for the Formulations for More Efficient Drug Delivery to Cancer Cells. Langmuir, 2019, 35, 9084-9092.	3.5	6
57	The effect of chlorination degree and substitution pattern on the interactions of polychlorinated biphenyls with model bacterial membranes. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1057-1068.	2.6	6
58	The miscibility of dodecyltrihydroxyethylammonium bromide with cationic, nonionic and anionic surfactants in mixed monolayers and micelles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 348, 70-75.	4.7	5
59	The influence of cholesterol precursor â€“ desmosterol â€“ on artificial lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1639-1645.	2.6	3
60	Phospatidylserine or ganglioside â€“ Which of anionic lipids determines the effect of cationic dextran on lipid membrane?. Colloids and Surfaces B: Biointerfaces, 2015, 126, 204-209.	5.0	3
61	The influence of cationic lipoid - 1-palmitoyl-2-oleoyl-sn-glycero-3-ethylphosphocholine - on model lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183088.	2.6	3
62	Interactions of polycyclic aromatic hydrocarbons and their nitro derivatives with bilayer and monolayer models of fungal membranes. Journal of Molecular Liquids, 2022, 360, 119591.	4.9	3
63	Interactions of Long-Chain Perfluorotelomer Alcohol and Perfluorinated Hydrocarbons with Model Decomposer Membranes. Journal of Physical Chemistry B, 2018, 122, 7340-7352.	2.6	2
64	The studies on the membrane activity of triester of phosphatidylcholine in artificial membrane systems. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183711.	2.6	2
65	Sterolâ€“Phospholipid Hybrids at the Air/Water Interface: Studies on Properties and Interactions with Parent Lipid Molecules. Langmuir, 2016, 32, 4095-4102.	3.5	1
66	Effect of lipopolymer (DSPE-PEG750) on phospholipid monolayers and bilayers differing in the structure of the polar head group. Journal of Molecular Liquids, 2021, 344, 117715.	4.9	1