

Georg Pabst

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113
papers

4,431
citations

40
h-index

63
g-index

155
ext. papers

5,063
ext. citations

3
avg, IF

5.53
L-index

#	Paper	IF	Citations
113	Structural information from multilamellar liposomes at full hydration: full q-range fitting with high quality x-ray data. <i>Physical Review E</i> , 2000 , 62, 4000-9	2.4	382
112	Rigidification of neutral lipid bilayers in the presence of salts. <i>Biophysical Journal</i> , 2007 , 93, 2688-96	2.9	172
111	Applications of neutron and X-ray scattering to the study of biologically relevant model membranes. <i>Chemistry and Physics of Lipids</i> , 2010 , 163, 460-79	3.7	163
110	Structural analysis of weakly ordered membrane stacks. <i>Journal of Applied Crystallography</i> , 2003 , 36, 1378-1388	3.8	149
109	Monolayer spontaneous curvature of raft-forming membrane lipids. <i>Soft Matter</i> , 2013 , 9, 10877-10884	3.6	146
108	Long-term stability of sterically stabilized liposomes by freezing and freeze-drying: Effects of cryoprotectants on structure. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 41, 546-55	5.1	137
107	Structure and Interactions in the Anomalous Swelling Regime of Phospholipid Bilayers \square <i>Langmuir</i> , 2003 , 19, 1716-1722	4	129
106	Asymmetric lipid membranes: towards more realistic model systems. <i>Membranes</i> , 2015 , 5, 180-96	3.8	126
105	Differential modulation of membrane structure and fluctuations by plant sterols and cholesterol. <i>Biophysical Journal</i> , 2008 , 94, 3935-44	2.9	122
104	Magnetically alignable phase of phospholipid "bicelle" mixtures is a chiral nematic made up of wormlike micelles. <i>Langmuir</i> , 2004 , 20, 7893-7	4	105
103	Composition dependence of vesicle morphology and mixing properties in a bacterial model membrane system. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1716, 40-8	3.8	95
102	Calculating the Bending Modulus for Multicomponent Lipid Membranes in Different Thermodynamic Phases. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3866-3871	6.4	85
101	Interaction of LL-37 with model membrane systems of different complexity: influence of the lipid matrix. <i>Biophysical Journal</i> , 2008 , 94, 4688-99	2.9	79
100	Subnanometer Structure of an Asymmetric Model Membrane: Interleaflet Coupling Influences Domain Properties. <i>Langmuir</i> , 2016 , 32, 5195-200	4	79
99	Preparation of asymmetric phospholipid vesicles for use as cell membrane models. <i>Nature Protocols</i> , 2018 , 13, 2086-2101	18.8	79
98	GLOBAL PROPERTIES OF BIOMIMETIC MEMBRANES: PERSPECTIVES ON MOLECULAR FEATURES. <i>Biophysical Reviews and Letters</i> , 2006 , 01, 57-84	1.2	77
97	Membrane-mediated effect on ion channels induced by the anesthetic drug ketamine. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7990-7	16.4	76

96	Cholesterol orientation and tilt modulus in DMPC bilayers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7524-34	3.4	73
95	How lipids influence the mode of action of membrane-active peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 2586-95	3.8	73
94	H NMR Shows Slow Phospholipid Flip-Flop in Gel and Fluid Bilayers. <i>Langmuir</i> , 2017 , 33, 3731-3741	4	65
93	Entropy-driven softening of fluid lipid bilayers by alamethicin. <i>Langmuir</i> , 2007 , 23, 11705-11	4	60
92	Formation of Lipid-Bilayer Nanodiscs by Diisobutylene/Maleic Acid (DIBMA) Copolymer. <i>Langmuir</i> , 2017 , 33, 14378-14388	4	59
91	New evidence for gel-liquid crystalline phase coexistence in the ripple phase of phosphatidylcholines. <i>European Biophysics Journal</i> , 2000 , 29, 125-33	1.9	59
90	Calorimetric, x-ray diffraction, and spectroscopic studies of the thermotropic phase behavior and organization of tetramyristoyl cardiolipin membranes. <i>Biophysical Journal</i> , 2007 , 92, 3166-77	2.9	58
89	Review of methods and criteria for the evaluation of bioequivalence studies. <i>European Journal of Clinical Pharmacology</i> , 1990 , 38, 5-10	2.8	58
88	On the propensity of phosphatidylglycerols to form interdigitated phases. <i>Biophysical Journal</i> , 2007 , 93, 513-25	2.9	57
87	In situ determination of structure and fluctuations of coexisting fluid membrane domains. <i>Biophysical Journal</i> , 2015 , 108, 854-862	2.9	55
86	Membrane thickening by the antimicrobial peptide PGLa. <i>Biophysical Journal</i> , 2008 , 95, 5779-88	2.9	53
85	Structure and fluctuations of phosphatidylcholines in the vicinity of the main phase transition. <i>Physical Review E</i> , 2004 , 70, 021908	2.4	53
84	Discontinuous unbinding of lipid multibilayers. <i>Physical Review Letters</i> , 2003 , 91, 028101	7.4	52
83	Salt-induced phase separation in the liquid crystalline phase of phosphatidylcholines. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 183-185, 171-181	5.1	49
82	Atomistic resolution structure and dynamics of lipid bilayers in simulations and experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2512-2528	3.8	47
81	Global small-angle X-ray scattering data analysis for multilamellar vesicles: the evolution of the scattering density profile model. <i>Journal of Applied Crystallography</i> , 2014 , 47, 173-180	3.8	47
80	On scattered waves and lipid domains: detecting membrane rafts with X-rays and neutrons. <i>Soft Matter</i> , 2015 , 11, 9055-72	3.6	46
79	Intrinsic Curvature-Mediated Transbilayer Coupling in Asymmetric Lipid Vesicles. <i>Biophysical Journal</i> , 2018 , 114, 146-157	2.9	44

78	Chapter Five Liposome-Based Biomembrane Mimetic Systems: Implications for Lipid/Peptide Interactions. <i>Behavior Research Methods</i> , 2008 , 103-137	6.1	44
77	Enhancement of steric repulsion with temperature in oriented lipid multilayers. <i>Physical Review Letters</i> , 2002 , 88, 128101	7.4	44
76	Interactions of the AT1 antagonist valsartan with dipalmitoyl-phosphatidylcholine bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1753-63	3.8	41
75	Non-equilibrium formation of the cubic Pn 3 m phase in a monoolein/water system. <i>Europhysics Letters</i> , 2006 , 75, 267-273	1.6	40
74	Influence of N-acylation of a peptide derived from human lactoferricin on membrane selectivity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1426-35	3.8	40
73	Influence of antimicrobial peptides on the formation of nonlamellar lipid mesophases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 2325-33	3.8	39
72	Joint small-angle X-ray and neutron scattering data analysis of asymmetric lipid vesicles. <i>Journal of Applied Crystallography</i> , 2017 , 50, 419-429	3.8	37
71	Combined light and electron microscopy using diaminobenzidine photooxidation to monitor trafficking of lipids derived from lipoprotein particles. <i>Current Pharmaceutical Biotechnology</i> , 2012 , 13, 331-40	2.6	36
70	Losartan [®] affinity to fluid bilayers modulates lipid-cholesterol interactions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4780-8	3.6	35
69	Temperature driven annealing of perforations in bicellar model membranes. <i>Langmuir</i> , 2011 , 27, 4838-47	4	34
68	Synergism of Antimicrobial Frog Peptides Couples to Membrane Intrinsic Curvature Strain. <i>Biophysical Journal</i> , 2018 , 114, 1945-1954	2.9	33
67	Refined structure of 1,2-diacyl-P-O-ethylphosphatidylcholine bilayer membranes. <i>Chemistry and Physics of Lipids</i> , 2001 , 112, 137-50	3.7	33
66	Identification of the membrane-active regions of hepatitis C virus p7 protein: biophysical characterization of the loop region. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8089-101	5.4	30
65	Bending Rigidities and Interdomain Forces in Membranes with Coexisting Lipid Domains. <i>Biophysical Journal</i> , 2015 , 108, 2833-42	2.9	29
64	Packing behaviour of two predominant anionic phospholipids of bacterial cytoplasmic membranes. <i>Biophysical Chemistry</i> , 2010 , 150, 129-35	3.5	29
63	Association of low 25-hydroxyvitamin D levels with the frailty syndrome in an aged population: results from the KORA-age Augsburg study. <i>Journal of Nutrition, Health and Aging</i> , 2015 , 19, 258-64	5.2	28
62	X-ray Kinematography of Temperature-Jump Relaxation Probes the Elastic Properties of Fluid Bilayers. <i>Langmuir</i> , 2000 , 16, 8994-9001	4	27
61	Lalpha-phase separation in phosphatidylcholine-water systems induced by alkali chlorides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1372, 389-93	3.8	26

60	Phospholipid mesophases at solid interfaces: in-situ X-ray diffraction and spin-label studies. <i>Advances in Colloid and Interface Science</i> , 2004 , 111, 63-77	14.3	26
59	Elastic deformations in hexagonal phases studied by small-angle X-ray diffraction and simulations. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3100-7	3.6	25
58	Structure of DNA-CTAB-hexanol complexes. <i>Physical Review E</i> , 2006 , 73, 031904	2.4	25
57	Structure and thermotropic behavior of the Staphylococcus aureus lipid lysyl-dipalmitoylphosphatidylglycerol. <i>Biophysical Journal</i> , 2008 , 94, 2150-9	2.9	24
56	Relationship between the unbinding and main transition temperatures of phospholipid bilayers under pressure. <i>Physical Review E</i> , 2004 , 69, 031906	2.4	22
55	Lipid sorting by ceramide and the consequences for membrane proteins. <i>Biophysical Journal</i> , 2012 , 102, 2031-8	2.9	21
54	Implication of sphingomyelin/ceramide molar ratio on the biological activity of sphingomyelinase. <i>Biophysical Journal</i> , 2010 , 99, 499-506	2.9	21
53	Stable and unstable lipid domains in ceramide-containing membranes. <i>Biophysical Journal</i> , 2011 , 100, 2160-8	2.9	19
52	High-resolution structure of coexisting nanoscopic and microscopic lipid domains. <i>Soft Matter</i> , 2017 , 13, 1823-1833	3.6	18
51	Magainin 2 and PGLa in Bacterial Membrane Mimics I: Peptide-Peptide and Lipid-Peptide Interactions. <i>Biophysical Journal</i> , 2019 , 117, 1858-1869	2.9	18
50	Comparative study of the AT ₁ receptor prodrug antagonist candesartan cilexetil with other sartans on the interactions with membrane bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 3107-20	3.8	18
49	Impact of sterol tilt on membrane bending rigidity in cholesterol and 7DHC-containing DMPC membranes. <i>Soft Matter</i> , 2011 , 7, 10299-10312	3.6	17
48	Probing the Mesh Formed by the Semirigid Polyelectrolytes. <i>Macromolecules</i> , 2013 , 46, 1107-1118	5.5	16
47	Adiponectin-coated nanoparticles for enhanced imaging of atherosclerotic plaques. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1279-90	7.3	16
46	Supramolecular organization of S12363-liposomes prepared with two different remote loading processes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 926-35	3.8	16
45	Biophysical characterization of the fusogenic region of HCV envelope glycoprotein E1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 2183-93	3.8	16
44	Effect of ceramide on nonraft proteins. <i>Journal of Membrane Biology</i> , 2009 , 231, 125-32	2.3	15
43	Consequences of ions and pH on the supramolecular organization of sphingomyelin and sphingomyelin/cholesterol bilayers. <i>Chemistry and Physics of Lipids</i> , 2008 , 153, 119-29	3.7	15

42	Magainin 2 and PGLa in Bacterial Membrane Mimics II: Membrane Fusion and Sponge Phase Formation. <i>Biophysical Journal</i> , 2020 , 118, 612-623	2.9	15
41	Octenidine: Novel insights into the detailed killing mechanism of Gram-negative bacteria at a cellular and molecular level. <i>International Journal of Antimicrobial Agents</i> , 2020 , 56, 106146	14.3	15
40	Increasing complexity in small-angle X-ray and neutron scattering experiments: from biological membrane mimics to live cells. <i>Soft Matter</i> , 2021 , 17, 222-232	3.6	14
39	Modulation of Elasticity and Interactions in Charged Lipid Multibilayers: Monovalent Salt Solutions. <i>Langmuir</i> , 2016 , 32, 13546-13555	4	13
38	Cholesterol Deficiency Causes Impaired Osmotic Stability of Cultured Red Blood Cells. <i>Frontiers in Physiology</i> , 2019 , 10, 1529	4.6	13
37	Complex biomembrane mimetics on the sub-nanometer scale. <i>Biophysical Reviews</i> , 2017 , 9, 353-373	3.7	12
36	Lateral pressure-mediated protein partitioning into liquid-ordered/liquid-disordered domains. <i>Soft Matter</i> , 2016 , 12, 3189-95	3.6	12
35	Experimental concepts for linking the biological activities of antimicrobial peptides to their molecular modes of action. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183275	3.8	11
34	Optimizing rapid solvent exchange preparation of multilamellar vesicles. <i>Chemistry and Physics of Lipids</i> , 2015 , 186, 39-44	3.7	11
33	Bioavailability and pharmacokinetics of a fixed combination of delapril/indapamide following single and multiple dosing in healthy volunteers. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 1994 , 19, 59-69	2.7	11
32	Interaction of the most membranotropic region of the HCV E2 envelope glycoprotein with membranes. Biophysical characterization. <i>Biophysical Journal</i> , 2008 , 94, 4737-50	2.9	10
31	Trapping of short-lived intermediates in phospholipid phase transitions: the L* alpha phase. <i>Faraday Discussions</i> , 1998 , 31-40; discussion 69-78	3.6	10
30	The structures of polyunsaturated lipid bilayers by joint refinement of neutron and X-ray scattering data. <i>Chemistry and Physics of Lipids</i> , 2020 , 229, 104892	3.7	9
29	Analysis of Trisiloxane Phosphocholine Bilayers. <i>Langmuir</i> , 2017 , 33, 4948-4953	4	8
28	Stalk-free membrane fusion of cationic lipids via an interdigitated phase. <i>Soft Matter</i> , 2012 , 8, 7243	3.6	8
27	Use of X-ray scattering to aid the design and delivery of membrane-active drugs. <i>European Biophysics Journal</i> , 2012 , 41, 915-29	1.9	8
26	Tuning DNA-amphiphile condensate architecture with strongly binding counterions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6394-8	11.5	7
25	Global small-angle scattering data analysis of inverted hexagonal phases. <i>Journal of Applied Crystallography</i> , 2019 , 52, 403-414	3.8	7

24	Defect-mediated lamellar-to-isotropic transition of amphiphile bilayers. <i>Soft Matter</i> , 2012 , 8, 9069	3.6	6
23	Lack of pharmacokinetic interactions between moxonidine and digoxin. <i>Clinical Pharmacokinetics</i> , 1992 , 23, 477-81	6.2	5
22	Lack of pharmacokinetic interaction between moxonidine and hydrochlorothiazide. <i>European Journal of Clinical Pharmacology</i> , 1992 , 43, 209-10	2.8	5
21	Synergism between Magainin 2 and PGLa in Bacterial Membrane Mimics Leads to Membrane Fusion and Sponge Phase Formation. <i>Biophysical Journal</i> , 2020 , 118, 343a	2.9	4
20	Antimicrobial peptide activity in asymmetric bacterial membrane mimics. <i>Faraday Discussions</i> , 2021 ,	3.6	4
19	Flexibility and Structure of Fluid Bilayer Interfaces 2014 , 45-81		3
18	Dynamics and Structure of Biopolyelectrolytes Characterized by Dielectric Spectroscopy. <i>Macromolecular Symposia</i> , 2011 , 305, 43-54	0.8	3
17	Intrinsic lipid curvatures of mammalian plasma membrane outer leaflet lipids and ceramides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021 , 1863, 183709	3.8	3
16	Structural Properties of Inner and Outer Membrane Mimics of Gram-Negative Bacteria. <i>Biophysical Journal</i> , 2019 , 116, 87a	2.9	2
15	Antimicrobial Peptides Impair Bacteria Cell Structures within Seconds. <i>Biophysical Journal</i> , 2020 , 118, 234a	2.9	2
14	Coupling Membrane Elasticity and Structure to Protein Function. <i>Behavior Research Methods</i> , 2013 , 18, 81-109	6.1	2
13	Evaluation of bioavailability and pharmacokinetics of two isosorbide-5-mononitrate preparations in healthy volunteers. <i>Journal of Clinical Pharmacology</i> , 1992 , 32, 553-7	2.9	2
12	Screening a peptide library by DSC and SAXD: comparison with the biological function of the parent proteins. <i>PLoS ONE</i> , 2009 , 4, e4356	3.7	2
11	Lipid Melting Transitions Involve Structural Redistribution of Interfacial Water. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12457-12465	3.4	2
10	Evolution of the analytical scattering model of live. <i>Journal of Applied Crystallography</i> , 2021 , 54, 473-485	3.8	2
9	Structure and Interdigitation of Chain-Asymmetric Phosphatidylcholines and Milk Sphingomyelin in the Fluid Phase.. <i>Symmetry</i> , 2021 , 13,	2.7	2
8	Photoswitching of model ion channels in lipid bilayers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 224, 112320	6.7	2
7	Evaluation of bioequivalence studies. <i>European Journal of Clinical Pharmacology</i> , 1991 , 40, 201-3	2.8	2

6	Bridging the Antimicrobial Activity of Two Lactoferricin Derivatives in and Lipid-Only Membranes.. <i>Frontiers in Medical Technology</i> , 2021 , 3, 625975	1.9	1
5	Interdigitation-Induced Order and Disorder in Asymmetric Membranes.. <i>Journal of Membrane Biology</i> , 2022 , 1	2.3	1
4	Temperature Dependence of Lo/Ld Domain Thickness and Elasticity by Global Saxs Data Analysis. <i>Biophysical Journal</i> , 2014 , 106, 512a	2.9	
3	Scattering techniques in biology--Marking the contributions to the field from Peter Laggner on the occasion of his 68th birthday. <i>European Biophysics Journal</i> , 2012 , 41, 777-929	1.9	
2	Membrane-Mediated Effects of General Anesthetics on Ion Channels. <i>Scientia Pharmaceutica</i> , 2010 , 78, 619-619	4.3	
1	Miscibility of lactylated monoacylestere of propylene glycol with charged bilayer-forming colipids in aqueous solution. <i>Journal of Molecular Liquids</i> , 2006 , 123, 86-91	6	