Gerhard GrÃ¶bner

List of Publications by Year
in descending order

49 papers	2,173 citations	279487 23 h-index	223531 46 g-index
51 all docs	51 docs citations	51 times ranked	2976 citing authors

#	Article	IF	Citations
1	Two Types of Alzheimer's Î²-Amyloid (1â€“40) Peptide Membrane Interactions: Aggregation Preventing Transmembrane Anchoring Versus Accelerated Surface Fibril Formation. Journal of Molecular Biology, 2004, 335, 1039-1049.	2.0	355
2	How is protein aggregation in amyloidogenic diseases modulated by biological membranes?. European Biophysics Journal, 2008, 37, 247-255.	1.2	180
3	Observations of light-induced structural changes of retinal within rhodopsin. Nature, 2000, 405, 810-813.	13.7	134
4	Chitosan in situ gelation for improved drug loading and retention in poloxamer 407 gels. International Journal of Pharmaceutics, 2011, 409, 19-29.	2.6	120
5	Helicobacter pylori Adapts to Chronic Infection and Gastric Disease via pH-Responsive BabA-Mediated Adherence. Cell Host and Microbe, 2017, 21, 376-389.	5.1	104
6	Collective lipid motions in bilayer membranes studied by transverse deuteron spin relaxation. Journal of Chemical Physics, 1991, 95, 672-678.	1.2	98
7	Soil organic phosphorus transformations in a boreal forest chronosequence. Plant and Soil, 2013, 367, 149-162.	1.8	88
8	Changes in organic phosphorus composition in boreal forest humus soils: the role of iron and aluminium. Biogeochemistry, 2012, 108, 485-499.	1.7	78
9	Misfolding of Amyloidogenic Proteins at Membrane Surfaces:â€‰ The Impact of Macromolecular Crowding. Journal of the American Chemical Society, 2007, 129, 14848-14849.	6.6	69
10	Effect of DMSO on micellization, gelation and drug release profile of Poloxamer 407. International Journal of Pharmaceutics, 2010, 394, 92-98.	2.6	69
11	Molecular Insight into the Electrostatic Membrane Surface Potential by14N/31P MAS NMR Spectroscopy:Â Nociceptinâ^'Lipid Association. Journal of the American Chemical Society, 2005, 127, 6610-6616.	6.6	66
12	Effects of sphingomyelin, cholesterol and zinc ions on the binding, insertion and aggregation of the amyloid Abeta1-40 peptide in solid-supported lipid bilayers. FEBS Journal, 2006, 273, 1389-1402.	2.2	58
13	Photoreceptor rhodopsin: structural and conformational study of its chromophore 11-cis retinal in oriented membranes by deuterium solid state NMR. FEBS Letters, 1998, 422, 201-204.	1.3	55
14	Macromolecular Crowding at Membrane Interfaces: Adsorption and Alignment of Membrane Peptides. Journal of Molecular Biology, 2008, 375, 376-385.	2.0	52
15	Disordered Proteins: Biological Membranes as Two-Dimensional Aggregation Matrices. Cell Biochemistry and Biophysics, 2008, 52, 175-189.	0.9	46
16	H HRMAS NMR Derived Bio-markers Related to Tumor Grade, Tumor Cell Fraction, and Cell Proliferation in Prostate Tissue Samples. Biomarker Insights, 2011, 6, BMI.S6794.	1.0	45
17	Comprehensive metabolomics analysis of prostate cancer tissue in relation to tumor aggressiveness and TMPRSS2-ERG fusion status. BMC Cancer, 2020, 20, 437.	1.1	44
18	How does the Bax-Î±1 targeting sequence interact with mitochondrial membranes? The role of cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 623-631.	1.4	43

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19	Association of amyloid-Î² peptide with membrane surfaces monitored by solid state NMR. Physical Chemistry Chemical Physics, 2002, 4, 5524-5530.	1.3	42
20	Negatively Charged Phospholipid Membranes Induce Amyloid Formation of Medin via an Î±-Helical Intermediate. Journal of Molecular Biology, 2007, 374, 186-194.	2.0	35
21	Lipid Driven Nanodomains in Giant Lipid Vesicles are Fluid and Disordered. Scientific Reports, 2017, 7, 5460.	1.6	34
22	Pro-apoptotic bax-Î±1 synthesis and evidence for Î²-sheet to Î±-helix conformational change as triggered by negatively charged lipid membranes. Journal of Peptide Science, 2007, 13, 100-106.	0.8	29
23	Impact of oxidized phospholipids on the structural and dynamic organization of phospholipid membranes: a combined DSC and solid state NMR study. Faraday Discussions, 2013, 161, 499-513.	1.6	26
24	A MWCNT/Polyisoprene Composite Reinforced by an Effective Load Transfer Reflected in the Extent of Polymer Coating. Macromolecules, 2012, 45, 2841-2849.	2.2	23
25	Detection of polyunsaturated omega-6 fatty acid in human malignant prostate tissue by 1D and 2D high-resolution magic angle spinning NMR spectroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 327-331.	1.1	22
26	The oxidized phospholipid PazePC modulates interactions between Bax and mitochondrial membranes. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2718-2724.	1.4	19
27	Apoptotic Bax at Oxidatively Stressed Mitochondrial Membranes: Lipid Dynamics and Permeabilization. Biophysical Journal, 2017, 112, 2147-2158.	0.2	19
28	NMR on lipid membranes and their proteins. Current Opinion in Colloid and Interface Science, 2006, 11, 24-29.	3.4	18
29	Magicâ€angle phosphorus NMR of functional mitochondria: in situ monitoring of lipid response under apoptoticâ€like stress. FASEB Journal, 2009, 23, 2872-2878.	0.2	18
30	Semiconstant-Time P,H-COSY NMR: Analysis of Complex Mixtures of Phospholipids Originating from Helicobacter pylori. Journal of the American Chemical Society, 2009, 131, 14150-14151.	6.6	16
31	Reconstitution of the Anti-Apoptotic Bcl-2 Protein into Lipid Membranes and Biophysical Evidence for Its Detergent-Driven Association with the Pro-Apoptotic Bax Protein. PLoS ONE, 2013, 8, e61452.	1.1	16
32	The oxidized phospholipid PazePC promotes permeabilization of mitochondrial membranes by Bax. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1288-1297.	1.4	14
33	Inactivation of the Deg protease family in the cyanobacterium Synechocystis sp. PCC 6803 has impact on the outer cell layers. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 383-394.	1.7	13
34	Structural descriptions of ligands in their binding site of integral membrane proteins at near physiological conditions using solid-state NMR. European Biophysics Journal, 1998, 28, 84-90.	1.2	12
35	Expression and purification of full-length anti-apoptotic Bcl-2 using cell-free protein synthesis. Protein Expression and Purification, 2011, 77, 220-223.	0.6	12
36	Negatively Charged Lipid Membranes Promote a Disorder-Order Transition in the Yersinia YscU Protein. Biophysical Journal, 2014, 107, 1950-1961.	0.2	12

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37	Metabolomic profiling reveals plasma GlycA and GlycB as a potential biomarkers for treatment efficiency in rheumatoid arthritis. Journal of Pharmaceutical and Biomedical Analysis, 2021, 197, 113971.	1.4	10
38	Metabolomics of Interstitial Fluid, Plasma and Urine in Patients with Arterial Hypertension: New Insights into the Underlying Mechanisms. Diagnostics, 2020, 10, 936.	1.3	9
39	A novel recombinant expression and purification approach for the full-length anti-apoptotic membrane protein Bcl-2. Protein Expression and Purification, 2020, 172, 105628.	0.6	8
40	Bax to the future â€“ A novel, high-yielding approach for purification and expression of full-length Bax protein for structural studies. Protein Expression and Purification, 2019, 158, 20-26.	0.6	7
41	Detection of Local Prostate Metabolites by Hrmas Nmr Spectroscopy: A Comparative Study of Human and Rat Prostate Tissues. Magnetic Resonance Insights, 2010, 4, MRI.S6028.	2.5	6
42	Buckminsterfullerene: A Strong, Covalently Bonded, Reinforcing Filler and Reversible Cross-Linker in the Form of Clusters in a Polymer. ACS Macro Letters, 2013, 2, 511-517.	2.3	6
43	Neutron reflectometry and NMR spectroscopy of full-length Bcl-2 protein reveal its membrane localization and conformation. Communications Biology, 2021, 4, 507.	2.0	6
44	Microstructural and property changes in high pressure treated carbon nanotube/polybutadiene composites. Journal of Materials Chemistry, 2011, 21, 13672.	6.7	5
45	Integrating omics to characterize ecoâ€physiological adaptations: How moose diet and metabolism differ across biogeographic zones. Ecology and Evolution, 2021, 11, 3159-3183.	0.8	5
46	Protein-lipid interaction at low pH induces oligomerization of the MakA cytotoxin from Vibrio cholerae. ELife, 2022, 11, .	2.8	5
47	Impact of Oxidized Phospholipids on Membrane Organization. Biophysical Journal, 2013, 104, 249a.	0.2	1
48	Insight into Functional Membrane Proteins by Solution NMR: The Human Bcl-2 Proteinâ€”A Promising Cancer Drug Target. Molecules, 2021, 26, 1467.	1.7	1
49	Backbone chemical shift assignment and dynamics of the N-terminal domain of ClpB from Francisella tularensis type VI secretion system. Biomolecular NMR Assignments, 2022, , 1.	0.4	0