

Gerhard Gräßler

List of Publications by Year in descending order

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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	Backbone chemical shift assignment and dynamics of the N-terminal domain of ClpB from <i>Francisella tularensis</i> type VI secretion system. <i>Biomolecular NMR Assignments</i> , 2022, , 1.	0.4	0
2	Protein-lipid interaction at low pH induces oligomerization of the MakA cytotoxin from <i>Vibrio cholerae</i> . <i>ELife</i> , 2022, 11, .	2.8	5
3	Insight into Functional Membrane Proteins by Solution NMR: The Human Bcl-2 Proteinâ€”A Promising Cancer Drug Target. <i>Molecules</i> , 2021, 26, 1467.	1.7	1
4	Integrating omics to characterize ecoâ€”physiological adaptations: How moose diet and metabolism differ across biogeographic zones. <i>Ecology and Evolution</i> , 2021, 11, 3159-3183.	0.8	5
5	Neutron reflectometry and NMR spectroscopy of full-length Bcl-2 protein reveal its membrane localization and conformation. <i>Communications Biology</i> , 2021, 4, 507.	2.0	6
6	Metabolomic profiling reveals plasma GlycA and GlycB as a potential biomarkers for treatment efficiency in rheumatoid arthritis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 197, 113971.	1.4	10
7	Metabolomics of Interstitial Fluid, Plasma and Urine in Patients with Arterial Hypertension: New Insights into the Underlying Mechanisms. <i>Diagnostics</i> , 2020, 10, 936.	1.3	9
8	Comprehensive metabolomics analysis of prostate cancer tissue in relation to tumor aggressiveness and TMPRSS2-ERG fusion status. <i>BMC Cancer</i> , 2020, 20, 437.	1.1	44
9	A novel recombinant expression and purification approach for the full-length anti-apoptotic membrane protein Bcl-2. <i>Protein Expression and Purification</i> , 2020, 172, 105628.	0.6	8
10	Bax to the future â€” A novel, high-yielding approach for purification and expression of full-length Bax protein for structural studies. <i>Protein Expression and Purification</i> , 2019, 158, 20-26.	0.6	7
11	<i>Helicobacter pylori</i> Adapts to Chronic Infection and Gastric Disease via pH-Responsive BabA-Mediated Adherence. <i>Cell Host and Microbe</i> , 2017, 21, 376-389.	5.1	104
12	Apoptotic Bax at Oxidatively Stressed Mitochondrial Membranes: Lipid Dynamics and Permeabilization. <i>Biophysical Journal</i> , 2017, 112, 2147-2158.	0.2	19
13	Lipid Driven Nanodomains in Giant Lipid Vesicles are Fluid and Disordered. <i>Scientific Reports</i> , 2017, 7, 5460.	1.6	34
14	The oxidized phospholipid PazePC promotes permeabilization of mitochondrial membranes by Bax. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1288-1297.	1.4	14
15	Inactivation of the Deg protease family in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 has impact on the outer cell layers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 152, 383-394.	1.7	13
16	Negatively Charged Lipid Membranes Promote a Disorder-Order Transition in the <i>Yersinia</i> YscU Protein. <i>Biophysical Journal</i> , 2014, 107, 1950-1961.	0.2	12
17	Soil organic phosphorus transformations in a boreal forest chronosequence. <i>Plant and Soil</i> , 2013, 367, 149-162.	1.8	88
18	Impact of Oxidized Phospholipids on Membrane Organization. <i>Biophysical Journal</i> , 2013, 104, 249a.	0.2	1

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19	Impact of oxidized phospholipids on the structural and dynamic organization of phospholipid membranes: a combined DSC and solid state NMR study. <i>Faraday Discussions</i> , 2013, 161, 499-513.	1.6	26
20	Buckminsterfullerene: A Strong, Covalently Bonded, Reinforcing Filler and Reversible Cross-Linker in the Form of Clusters in a Polymer. <i>ACS Macro Letters</i> , 2013, 2, 511-517.	2.3	6
21	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. <i>PLoS ONE</i> , 2013, 8, e61452.	1.1	16
22	A MWCNT/Polyisoprene Composite Reinforced by an Effective Load Transfer Reflected in the Extent of Polymer Coating. <i>Macromolecules</i> , 2012, 45, 2841-2849.	2.2	23
23	The oxidized phospholipid PazePC modulates interactions between Bax and mitochondrial membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2718-2724.	1.4	19
24	Changes in organic phosphorus composition in boreal forest humus soils: the role of iron and aluminium. <i>Biogeochemistry</i> , 2012, 108, 485-499.	1.7	78
25	Microstructural and property changes in high pressure treated carbon nanotube/polybutadiene composites. <i>Journal of Materials Chemistry</i> , 2011, 21, 13672.	6.7	5
26	Expression and purification of full-length anti-apoptotic Bcl-2 using cell-free protein synthesis. <i>Protein Expression and Purification</i> , 2011, 77, 220-223.	0.6	12
27	Chitosan in situ gelation for improved drug loading and retention in poloxamer 407 gels. <i>International Journal of Pharmaceutics</i> , 2011, 409, 19-29.	2.6	120
28	¹ H HRMAS NMR Derived Bio-markers Related to Tumor Grade, Tumor Cell Fraction, and Cell Proliferation in Prostate Tissue Samples. <i>Biomarker Insights</i> , 2011, 6, BMI.S6794.	1.0	45
29	Effect of DMSO on micellization, gelation and drug release profile of Poloxamer 407. <i>International Journal of Pharmaceutics</i> , 2010, 394, 92-98.	2.6	69
30	Detection of Local Prostate Metabolites by Hrmass Nmr Spectroscopy: A Comparative Study of Human and Rat Prostate Tissues. <i>Magnetic Resonance Insights</i> , 2010, 4, MRI.S6028.	2.5	6
31	Magic angle phosphorus NMR of functional mitochondria: in situ monitoring of lipid response under apoptotic stress. <i>FASEB Journal</i> , 2009, 23, 2872-2878.	0.2	18
32	Detection of polyunsaturated omega-6 fatty acid in human malignant prostate tissue by 1D and 2D high-resolution magic angle spinning NMR spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 327-331.	1.1	22
33	Semiconstant-Time P,H-COSY NMR: Analysis of Complex Mixtures of Phospholipids Originating from <i>Helicobacter pylori</i> . <i>Journal of the American Chemical Society</i> , 2009, 131, 14150-14151.	6.6	16
34	How does the Bax-1 targeting sequence interact with mitochondrial membranes? The role of cardiolipin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 623-631.	1.4	43
35	How is protein aggregation in amyloidogenic diseases modulated by biological membranes?. <i>European Biophysics Journal</i> , 2008, 37, 247-255.	1.2	180
36	Disordered Proteins: Biological Membranes as Two-Dimensional Aggregation Matrices. <i>Cell Biochemistry and Biophysics</i> , 2008, 52, 175-189.	0.9	46

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37	Macromolecular Crowding at Membrane Interfaces: Adsorption and Alignment of Membrane Peptides. <i>Journal of Molecular Biology</i> , 2008, 375, 376-385.	2.0	52
38	Negatively Charged Phospholipid Membranes Induce Amyloid Formation of Medin via an α -Helical Intermediate. <i>Journal of Molecular Biology</i> , 2007, 374, 186-194.	2.0	35
39	Misfolding of Amyloidogenic Proteins at Membrane Surfaces: The Impact of Macromolecular Crowding. <i>Journal of the American Chemical Society</i> , 2007, 129, 14848-14849.	6.6	69
40	Pro-apoptotic bax- α 1 synthesis and evidence for β -sheet to α -helix conformational change as triggered by negatively charged lipid membranes. <i>Journal of Peptide Science</i> , 2007, 13, 100-106.	0.8	29
41	Effects of sphingomyelin, cholesterol and zinc ions on the binding, insertion and aggregation of the amyloid Abeta1-40 peptide in solid-supported lipid bilayers. <i>FEBS Journal</i> , 2006, 273, 1389-1402.	2.2	58
42	NMR on lipid membranes and their proteins. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 24-29.	3.4	18
43	Molecular Insight into the Electrostatic Membrane Surface Potential by $^{14}\text{N}/^{31}\text{P}$ MAS NMR Spectroscopy: A Nociceptin α Lipid Association. <i>Journal of the American Chemical Society</i> , 2005, 127, 6610-6616.	6.6	66
44	Two Types of Alzheimer's β -Amyloid (1-40) Peptide Membrane Interactions: Aggregation Preventing Transmembrane Anchoring Versus Accelerated Surface Fibril Formation. <i>Journal of Molecular Biology</i> , 2004, 335, 1039-1049.	2.0	355
45	Association of amyloid- β peptide with membrane surfaces monitored by solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5524-5530.	1.3	42
46	Observations of light-induced structural changes of retinal within rhodopsin. <i>Nature</i> , 2000, 405, 810-813.	13.7	134
47	Structural descriptions of ligands in their binding site of integral membrane proteins at near physiological conditions using solid-state NMR. <i>European Biophysics Journal</i> , 1998, 28, 84-90.	1.2	12
48	Photoreceptor rhodopsin: structural and conformational study of its chromophore 11-cis retinal in oriented membranes by deuterium solid state NMR. <i>FEBS Letters</i> , 1998, 422, 201-204.	1.3	55
49	Collective lipid motions in bilayer membranes studied by transverse deuteron spin relaxation. <i>Journal of Chemical Physics</i> , 1991, 95, 672-678.	1.2	98