

# Klaus Gawrisch

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,518  
citations

471509

17  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of action of docosahexaenoic acid in the nervous system. <i>Lipids</i> , 2001, 36, 945-959.	1.7	812
2	Critical fluctuations in domain-forming lipid mixtures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17650-17655.	7.1	408
3	Influence of Docosahexaenoic Acid and Cholesterol on Lateral Lipid Organization in Phospholipid Mixtures. <i>Biochemistry</i> , 1998, 37, 17299-17308.	2.5	269
4	The Molecular Structure of the Liquid-Ordered Phase of Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2014, 136, 725-732.	13.7	217
5	The structure of DHA in phospholipid membranes. <i>Lipids</i> , 2003, 38, 445-452.	1.7	89
6	Hydration of POPC bilayers studied by 1H-PFG-MAS-NOESY and neutron diffraction. <i>European Biophysics Journal</i> , 2007, 36, 281-291.	2.2	80
7	Permeability of membranes in the liquid ordered and liquid disordered phases. <i>Nature Communications</i> , 2019, 10, 5616.	12.8	78
8	Novel NMR tools to study structure and dynamics of biomembranes. <i>Chemistry and Physics of Lipids</i> , 2002, 116, 135-151.	3.2	76
9	Structure and dynamics of polyunsaturated hydrocarbon chains in lipid bilayers—significance for GPCR function. <i>Chemistry and Physics of Lipids</i> , 2008, 153, 64-75.	3.2	61
10	Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. <i>Physical Review E</i> , 1998, 58, 7769-7776.	2.1	56
11	Insights from biophysical studies on the role of polyunsaturated fatty acids for function of G-protein coupled membrane receptors. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2008, 79, 131-134.	2.2	56
12	Rhodopsin/Lipid Hydrophobic Matching—Rhodopsin Oligomerization and Function. <i>Biophysical Journal</i> , 2015, 108, 1125-1132.	0.5	54
13	Structural interactions of a voltage sensor toxin with lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5463-70.	7.1	52
14	Light scattering characterization of extruded lipid vesicles. <i>European Biophysics Journal</i> , 1999, 28, 187-199.	2.2	51
15	Role of interactions at the lipid-water interface for domain formation. <i>Molecular Membrane Biology</i> , 1995, 12, 83-88.	2.0	44
16	Stimulation of $\alpha$ -synuclein amyloid formation by phosphatidylglycerol micellar tubules. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1840-1847.	2.6	23
17	How Do Ethanolamine Plasmalogens Contribute to Order and Structure of Neurological Membranes?. <i>Journal of Physical Chemistry B</i> , 2020, 124, 828-839.	2.6	23
18	Effect of the conformation of a peptide from gp41 on binding and domain formation in model membranes. <i>Molecular Membrane Biology</i> , 1995, 12, 77-82.	2.0	17

#	ARTICLE	IF	CITATIONS
19	Tafazzin senses curvature. <i>Nature Chemical Biology</i> , 2012, 8, 811-812.	8.0	14
20	Enhancing the platinum atomic layer deposition infiltration depth inside anodic alumina nanoporous membrane. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	11
21	Pore Hydration States of KcsA Potassium Channels in Membranes. <i>Journal of Biological Chemistry</i> , 2015, 290, 26765-26775.	3.4	11
22	Expression and NMR Structural Studies of Isotopically Labeled Cannabinoid Receptor Type II. <i>Methods in Enzymology</i> , 2017, 593, 387-403.	1.0	9
23	<i>Mycobacterium tuberculosis</i> enters macrophages with aid from a bacterial lipid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25372-25373.	7.1	4
24	Measurement of Lateral Diffusion Rates in Membranes by Pulsed Magnetic Field Gradient, Magic Angle Spinning-Proton Nuclear Magnetic Resonance. <i>Methods in Molecular Biology</i> , 2007, 400, 257-265.	0.9	2
25	Festschrift to recognize the contribution of Klaus Arnold to the field of biophysics on the occasion of his 65th birthday. <i>European Biophysics Journal</i> , 2007, 36, 261-261.	2.2	1