GÃ¶ran Lindblom

List of Publications by Year
in descending order

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121 papers	6,669 citations	61945 43 h-index	66879 78 g-index
124 all docs	124 docs citations	124 times ranked	4269 citing authors

#	Article	IF	Citations
1	Cubic phases and isotropic structures formed by membrane lipids â€" possible biological relevance. BBA - Biomembranes, 1989, 988, 221-256.	7.9	496
2	The Effect of Cholesterol on the Lateral Diffusion of Phospholipids in Oriented Bilayers. Biophysical Journal, 2003, 84, 3079-3086.	0.2	397
3	Wild-type Escherichia coli Cells Regulate the Membrane Lipid Composition in a â€œWindowâ€•between Gel and Non-lamellar Structures. Journal of Biological Chemistry, 1996, 271, 6801-6809.	1.6	333
4	Induction of Nonbilayer Structures in Diacylphosphatidylcholine Model Membranes by Transmembrane Î±-Helical Peptides:Â Importance of Hydrophobic Mismatch and Proposed Role of Tryptophansâ€. Biochemistry, 1996, 35, 1037-1045.	1.2	286
5	Charge-Dependent Translocation of the Trojan Peptide Penetratin across Lipid Membranes. Biophysical Journal, 2003, 85, 982-995.	0.2	194
6	Lipid lateral diffusion and membrane heterogeneity. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 234-244.	1.4	180
7	NMR Studies of translational diffusion in lyotropic liquid crystals and lipid membranes. Progress in Nuclear Magnetic Resonance Spectroscopy, 1994, 26, 483-515.	3.9	175
8	Deuteron nuclear magnetic resonance studies of phase equilibriums in a lecithin-water system. Biochemistry, 1977, 16, 5742-5745.	1.2	157
9	Influence of Cholesterol and Water Content on Phospholipid Lateral Diffusion in Bilayersâ€. Langmuir, 2003, 19, 6397-6400.	1.6	146
10	Water binding and phase structures for different Acholeplasma laidlawii membrane lipids studied by deuteron nuclear magnetic resonance and x-ray diffraction. Biochimica Et Biophysica Acta - Biomembranes, 1978, 512, 241-253.	1.4	145
11	Lipid Lateral Diffusion in Ordered and Disordered Phases in Raft Mixtures. Biophysical Journal, 2004, 86, 891-896.	0.2	136
12	1H, 13C, 35Cl, and 81Br NMR of aqueous hexadecyltrimethylammonium salt solutions: Solubilization, viscoelasticity, and counterion specificity. Journal of Colloid and Interface Science, 1978, 65, 88-97.	5.0	126
13	Amphiphile diffusion in model membrane systems studied by pulsed NMR. Biophysical Chemistry, 1977, 6, 167-171.	1.5	121
14	Effect of cholesterol in membranes. Pulsed nuclear magnetic resonance measurements of lipid lateral diffusion. Biochemistry, 1981, 20, 2204-2207.	1.2	114
15	Molecular Ordering of Interfacially Localized Tryptophan Analogs in Ester- and Ether-Lipid Bilayers Studied by 2H-NMR. Biophysical Journal, 1998, 75, 1365-1371.	0.2	113
16	Effect of micellar shape and solubilization on counter-ion binding studied by 81Br NMR. Journal of Colloid and Interface Science, 1973, 42, 400-409.	5.0	105
17	Lipid lateral diffusion in bilayers with phosphatidylcholine, sphingomyelin and cholesterol. Chemistry and Physics of Lipids, 2006, 141, 179-184.	1.5	104
18	Lateral Diffusion Coefficients of Separate Lipid Species in a Ternary Raft-Forming Bilayer: A Pfg-NMR Multinuclear Study. Biophysical Journal, 2005, 89, 315-320.	0.2	102

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19	Sphingomyelin Structure Influences the Lateral Diffusion and Raft Formation in Lipid Bilayers. Biophysical Journal, 2006, 90, 2086-2092.	0.2	98
20	Phase equilibria of mixtures of plant galactolipids. The formation of a bicontinuous cubic phase. Biochimica Et Biophysica Acta - Biomembranes, 1985, 812, 816-826.	1.4	93
21	Segregated Phases in Pulmonary Surfactant Membranes Do Not Show Coexistence of Lipid Populations with Differentiated Dynamic Properties. Biophysical Journal, 2009, 97, 1381-1389.	0.2	91
22	Lateral Diffusion of Cholesterol and Dimyristoylphosphatidylcholine in a Lipid Bilayer Measured by Pulsed Field Gradient NMR Spectroscopy. Biophysical Journal, 2002, 83, 2702-2704.	0.2	83
23	Regulation of lipid composition in biological membranesâ€"biophysical studies of lipids and lipid synthesizing enzymes. Colloids and Surfaces B: Biointerfaces, 2002, 26, 112-124.	2.5	83
24	Phase equilibria in four lysophosphatidylcholine/water systems. Exceptional behaviour of 1-palmitoyl-glycerophosphocholine. FEBS Journal, 1985, 152, 753-759.	0.2	82
25	Orientation and mobility of molecules in membranes studied by polarized light spectroscopy. Quarterly Reviews of Biophysics, 1980, 13, 63-118.	2.4	79
26	Biological and model membranes studied by nuclear magnetic resonance of spin one half nuclei. Quarterly Reviews of Biophysics, 1977, 10, 67-96.	2.4	76
27	Plasmon-Waveguide Resonance and Impedance Spectroscopy Studies of the Interaction between Penetratin and Supported Lipid Bilayer Membranes. Biophysical Journal, 2003, 84, 1796-1807.	0.2	73
28	Domain Formation in Model Membranes Studied by Pulsed-Field Gradient-NMR: The Role of Lipid Polyunsaturation. Biophysical Journal, 2007, 93, 3182-3190.	0.2	72
29	NMR studies of 1-palmitoyllysophosphatidylcholine in a cubic liquid crystal with a novel structure. The Journal of Physical Chemistry, 1985, 89, 1050-1053.	2.9	70
30	Lateral diffusion studied by pulsed field gradient NMR on oriented lipid membranes. Magnetic Resonance in Chemistry, 2004, 42, 123-131.	1.1	68
31	Lipid phase structure governs the regulation of lipid composition in membranes ofacholeplasma laidlawii. FEBS Letters, 1981, 124, 273-278.	1.3	67
32	The Effect of Cholesterol on the Phase Structure of Glucolipids from Acholeplasma laidlawii Membranes. FEBS Journal, 1981, 116, 215-220.	0.2	63
33	Ion condensation model and nuclear magnetic resonance studies of counterion binding in lyotropic liquid crystals. Journal of the Chemical Society Faraday Transactions I, 1979, 75, 663.	1.0	61
34	Regulation of Lipid Composition in Acholeplasma laidlawii and Escherichia coli Membranes:â€‰ NMR Studies of Lipid Lateral Diffusion at Different Growth Temperatures. Biochemistry, 2002, 41, 11512-11515.	1.2	58
35	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
36	The Effect of Peptide/Lipid Hydrophobic Mismatch on the Phase Behavior of Model Membranes Mimicking the Lipid Composition in Escherichia coli Membranes. Biophysical Journal, 2000, 78, 2475-2485.	0.2	55

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37	Cubic phases in biosensing systems. Analytical and Bioanalytical Chemistry, 2008, 391, 1569-1578.	1.9	55
38	Effect of NaCl and CaCl2 on the lateral diffusion of zwitterionic and anionic lipids in bilayers. Chemistry and Physics of Lipids, 2009, 159, 81-87.	1.5	53
39	Multicomponent spectra from 31P-NMR studies of the phase equilibria in the system dioleogylphosphatidylcholine-dioleoylphosphatidylthanolamine-water. Chemistry and Physics of Lipids, 1985, 37, 357-371.	1.5	52
40	A general method for the preparation of mixed micelles of hydrophobic peptides and sodium dodecyl sulphate. FEBS Letters, 1994, 348, 161-165.	1.3	51
41	Lipid Bilayer Stability in Biological Membranes. , 1984, , 205-245.		51
42	A Defective Swelling Lamellar Phase. Langmuir, 1997, 13, 852-860.	1.6	49
43	Domain-Formation in DOPC/SM Bilayers Studied by pfg-NMR: Effect of Sterol Structure. Biophysical Journal, 2006, 91, 2501-2507.	0.2	47
44	Proton NMR bandshape studies of lamellar liquid crystals and gel phases containing lecithins and cholesterol. Biochimica Et Biophysica Acta - Biomembranes, 1975, 389, 197-202.	1.4	46
45	Stabilization of a Bicontinuous Cubic Phase from Polymerizable Monoacylglycerol and Diacylglycerol. Langmuir, 1998, 14, 1921-1926.	1.6	46
46	Nonlamellar phases formed by membrane lipids. Advances in Colloid and Interface Science, 1992, 41, 101-125.	7.0	43
47	Microstructures in the aqueous solutions of a hybrid anionic fluorocarbon/hydrocarbon surfactant. Journal of Colloid and Interface Science, 2003, 259, 382-390.	5.0	43
48	An FTIR study of the hydration and molecular ordering at phase transitions in the monooleoylglycerol/water system. Chemistry and Physics of Lipids, 1994, 71, 119-131.	1.5	42
49	Anisotropic Water Diffusion in Macroscopically Oriented Lipid Bilayers Studied by Pulsed Magnetic Field Gradient NMR. Journal of Magnetic Resonance, 2002, 157, 156-159.	1.2	42
50	Effect of sterol structure on the bending rigidity of lipid membranes: A 2H NMR transverse relaxation study. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1762-1771.	1.4	42
51	Interaction of Phosphatidylserine Synthase from E. coli with Lipid Bilayers: Coupled Plasmon-Waveguide Resonance Spectroscopy Studies. Biophysical Journal, 2000, 78, 1400-1412.	0.2	41
52	NMR Studies of Lipid Lateral Diffusion in the DMPC/Gramicidin D/Water System: Peptide Aggregation and Obstruction Effects. Biophysical Journal, 2004, 87, 980-987.	0.2	41
53	Membrane Lipid Composition and Cell Size of Acholeplasma laidlawii Strain A are Strongly Influenced by Lipid Acyl Chain Length. FEBS Journal, 1995, 227, 734-744.	0.2	39
54	New Aspects on Membrane Lipid Regulation inAcholeplasma laidlawiiA and Phase Equilibria of Monoacyldiglucosyldiacylglycerolâ€. Biochemistry, 1996, 35, 11119-11130.	1.2	38

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55	Ion Binding in Liquid Crystals Studied by NMR. III. 23Na Quadrupolar Effects in a Model Membrane System.. Acta Chemica Scandinavica, 1971, 25, 2767-2768.	0.7	38
56	Influence of organic solutes on the self-diffusion of water as studied by nuclear magnetic resonance spectroscopy. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 3129.	1.0	37
57	Orientation of Î²-carotene and retinal in lipid bilayers. FEBS Letters, 1981, 128, 97-99.	1.3	36
58	Cubic liquid crystalline phase with phosphatidyl-ethanolamine fromBacillus megateriumcontaining branched acyl chains. FEBS Letters, 1982, 149, 293-298.	1.3	36
59	Linear dichroism as a tool for studying molecular orientation in membrane systems. 2. Order parameters of guest molecules from linear dichroism and nuclear magnetic resonance. The Journal of Physical Chemistry, 1978, 82, 2604-2609.	2.9	34
60	Encapsulation and Diffusion of Water-Soluble Dendrimers in a Bicontinuous Cubic Phase. Langmuir, 2002, 18, 1073-1076.	1.6	33
61	Regulation and Physicochemical Properties of the Polar Lipids in Acholeplasma laidlawii. Sub-Cellular Biochemistry, 1993, 20, 109-166.	1.0	33
62	Ion Binding and Water Orientation in Lipid Model Membrane Systems Studied by NMR. Advances in Chemistry Series, 1976, , 121-141.	0.6	32
63	A Molecular View on the Interaction of the Trojan Peptide Penetratin with the Polar Interface of Lipid Bilayers. Biophysical Journal, 2004, 87, 332-343.	0.2	30
64	A study of counter-ion binding to reversed micelles by nuclear magnetic quadrupole relaxation of 81Br.. Journal of Colloid and Interface Science, 1970, 34, 262-271.	5.0	27
65	The Interactions between Monovalent Ions and Phosphatidyl Cholines in Aqueous Bilayers. FEBS Journal, 1983, 134, 309-314.	0.2	27
66	Structures of glucolipids from the membrane of Acholeplasma laidlawii strain A-EF22. III. Monoglucosyldiacylglycerol, diglucosyldiacylglycerol, and monoacyldiglucosyldiacylglycerol. Lipids and Lipid Metabolism, 1995, 1258, 1-9.	2.6	26
67	Ion Binding in Liquid Crystals Studied by NMR IV. 23Na NMR of Macroscopically Aligned Lamellar Mesophases.. Acta Chemica Scandinavica, 1972, 26, 1745-1748.	0.7	26
68	High-resolution NMR on cubic lyotropic liquid crystalline phases. Chemical Physics Letters, 1998, 287, 468-474.	1.2	25
69	Two-Dimensional 1H-NMR of Transmembrane Peptides from Escherichia Coli Phosphatidylglycerophosphate Synthase in Micelles. FEBS Journal, 1996, 241, 489-497.	0.2	23
70	Deuteron and sodiumâ€”23 NMR studies of lecithin mesophases. Chemistry and Physics of Lipids, 1974, 12, 261-270.	1.5	22
71	Effect ofn-alkanes and peptides on the phase equilibria in phosphatidylcholineâ€”water systems. Liquid Crystals, 1988, 3, 783-790.	0.9	22
72	Structures of glucolipids from the membrane of Acholeplasma laidlawii strain A-EF22.1. Glycerophosphoryldiglucosyldiacylglycerol and monoacylbisglycerophosphoryldiglucosyldiacylglycerol. Lipids and Lipid Metabolism, 1994, 1214, 124-130.	2.6	22

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73	Micelle studies by high-sensitivity linear dichroism. Benzene solubilization in rod-shaped micelles of cetyltrimethylammoniumbromide in water. Chemical Physics Letters, 1976, 39, 128-133.	1.2	21
74	Effects of lipid composition on the membrane activity and lipid phase behaviour of Vibrio sp. DSM14379 cells grown at various NaCl concentrations. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1712, 1-8.	1.4	21
75	The Structure of a Lyotropic Liquid Crystalline Phase that Orients in a Magnetic Field. Molecular Crystals and Liquid Crystals, 1980, 59, 121-136.	0.9	20
76	Total Lipids with Short and Long Acyl Chains from Acholeplasma Form Nonlamellar Phases. Biophysical Journal, 1998, 75, 2877-2887.	0.2	20
77	Aggregation of an Î±-Helical Transmembrane Peptide in Lipid Phases, Studied by Time-Resolved Fluorescence Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 8344-8352.	1.2	20
78	Influences of membrane curvature in lipid hexagonal phases studied by deuterium NMR spectroscopy. Biochemical and Biophysical Research Communications, 1990, 173, 1231-1238.	1.0	19
79	FTIR study of lamellar and reversed micellar phases in the mono-oleoylglycerol/water system. Chemistry and Physics of Lipids, 1994, 69, 219-227.	1.5	18
80	The 1-Monooleoyl-rac-glycerol/n-Octyl-Î²-d-Glucoside/Water System. Phase Diagram and Phase Structures Determined by NMR and X-ray Diffraction. Langmuir, 2003, 19, 5813-5822.	1.6	18
81	Interaction of the Trojan peptide penetratin with anionic lipid membranesâ€“a calorimetric study. Physical Chemistry Chemical Physics, 2003, 5, 5108-5117.	1.3	18
82	NMR on lipid membranes and their proteins. Current Opinion in Colloid and Interface Science, 2006, 11, 24-29.	3.4	18
83	Further evidence for closed, nonspherical aggregates in the cubic I1 phase of lysolecithin and water. Biophysical Journal, 1992, 63, 723-729.	0.2	16
84	Structures of glucolipids from the membrane of Acholeplasma laidlawii strain A-EF22. II. Monoacylmonoglucosyldiacylglycerol. Lipids and Lipid Metabolism, 1994, 1215, 341-345.	2.6	16
85	Effect of glycerol on the translational and rotational motions in lipid bilayers studied by pulsed-field gradient1H NMR, EPR and time-resolved fluorescence spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 305-309.	1.7	16
86	Nuclear magnetic resonance on lipids and surfactants. Current Opinion in Colloid and Interface Science, 1996, 1, 287-295.	3.4	16
87	Cryo-TEM and NMR studies of a micelle-forming phosphoglucolipid from membranes of Acholeplasma laidlawii A and B. Chemistry and Physics of Lipids, 1997, 85, 75-89.	1.5	16
88	Phase diagram of the octylammonium fluoride-heavy water system and counterion binding as studied by 19F NMR. Journal of Colloid and Interface Science, 1980, 78, 217-224.	5.0	15
89	Phase equilibria of the ternary system 1-palmitoyl-sn-glycero-3-phosphocholine/oleic acid/water/studied by NMR. Biochimica Et Biophysica Acta - Biomembranes, 1987, 904, 401-404.	1.4	15
90	Phase equilibria and formation of vesicles of dioleoylphosphatidylcholine in glycerol / water mixtures. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1149, 285-291.	1.4	15

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91	Similar regulatory mechanisms despite differences in membrane lipid composition in Acholeplasma laidlawii strains A-EF22 and B-PG9. A multivariate data analysis. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 331-342.	1.4	15
92	Lipids in total extracts from Acholeplasma laidlawii A pack more closely than the individual lipids. Monolayers studied at the air-water interface. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1369, 94-102.	1.4	15
93	Order and Disorder in a Liquid Crystalline Bilayer: Pulsed Field Gradient NMR Studies of Lateral Phase Separation. Journal of Dispersion Science and Technology, 2007, 28, 55-61.	1.3	15
94	Ion Binding in Liquid Crystals Studied by NMR.: I. The Cetyltrimethylammonium Bromide/Hexanol/Water System. Molecular Crystals and Liquid Crystals, 1971, 14, 49-62.	0.9	14
95	Application of time-resolved fluorescence in the study of lipid aggregates II. Motions and order of pyrene probes in an aligned lyotropic nematic phase. Liquid Crystals, 1986, 1, 53-62.	0.9	14
96	The physico-chemical characteristics of the phosphocholine-containing glycoglycerolipid MfGL-II govern the permeability properties of Mycoplasma fermentans. FEBS Journal, 2001, 268, 3694-3701.	0.2	13
97	Application of timeâ€resolved luminescence in the study of lipid aggregate symmetry. I. Theoretical discussion. Journal of Chemical Physics, 1983, 78, 1519-1522.	1.2	12
98	Protein and peptide interactions with lipids: Structure, membrane function and new methods. Current Opinion in Colloid and Interface Science, 1998, 3, 499-508.	3.4	11
99	Ionic Interactions in Amphiphilic Systems Studied by NMR. , 1977, , 195-227.		11
100	NMR Diffusion, a Method for Studies of Dynamics and Mesophase Structure of Membrane Lipids.. Acta Chemica Scandinavica, 1981, 35b, 61-62.	0.7	11
101	The NMR Quadrupole Splitting Method for Studying Ion Binding in Liquid Crystals. ACS Symposium Series, 1976, , 372-396.	0.5	10
102	Influence of monoglucosyldiacylglycerol and monoacylmonoglucosyldiacylglycerol on the lipid bilayer of the membrane from Acholeplasma laidlawii strain A-EF22. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1239, 186-194.	1.4	10
103	Pfg NMR studies of lateral diffusion in oriented lipid bilayers. Spectroscopy, 2005, 19, 191-198.	0.8	10
104	Chemical shift anisotropies of 133Cs+ counterions in lyotropic liquid crystals. Journal of Magnetic Resonance, 1978, 30, 133-136.	0.5	9
105	Phase Behavior of 1-Alkylpyridinium Octane-1-sulfonates. Effect of the 1-Alkylpyridinium Counterion Size. Langmuir, 2004, 20, 1168-1179.	1.6	9
106	Fluorescence detected linear dichroism. A new method for studies of molecular orientation in uniaxial systems. Journal of Chemical Physics, 1981, 74, 3774-3778.	1.2	8
107	Membrane Lipid Composition and Cell Size of Acholeplasma laidlawii Strain A are Strongly Influenced by Lipid Acyl Chain Length. FEBS Journal, 1995, 227, 734-744.	0.2	8
108	Î±-Methylene ordering of acyl chains differs in glucolipids and phosphatidylglycerol from Acholeplasma laidlawii membranes: 2H-NMR quadrupole splittings from individual lipids in mixed bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1468, 329-344.	1.4	7

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109	Molecular Organization in Phases of Lecithin- Cholate-Water As Studied by Nuclear Magnetic Resonance. Hepatology, 1984, 4, 129S-133S.	3.6	6
110	NMR Studies of Sodium Cholateâ€“Lecithin Mixed Micelles. Israel Journal of Chemistry, 1983, 23, 353-355.	1.0	5
111	A quantitative electron spin resonance line shape study of the order-disorder transition in the lamellar phase of the palmitoyllysophosphatidylcholine-water system. Molecular Physics, 1995, 85, 757-767.	0.8	5
112	Linear dichroism of molecules with cubic symmetry. Chemical Physics, 1987, 112, 373-378.	0.9	4
113	Chapter 3 NMR Studies of Membrane Lipid Properties. Current Topics in Membranes, 1997, 44, 103-166.	0.5	4
114	Chemical shift anisotropies of fluoride ions in lyotropic liquid crystals. Journal of Magnetic Resonance, 1979, 36, 141-146.	0.5	3
115	Packing of a triacylglucolipid from the membrane of Acholeplasma laidlawii strain A at the air/water interface. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1190, 416-420.	1.4	3
116	Lateral Diffusion Coefficients of Raft Lipids From Pulsed Field Gradient NMR. Methods in Molecular Biology, 2007, 398, 127-142.	0.4	3
117	Molecular and Ionic Behaviour at Water-Amphiphile Interfaces. , 1980, , 307-320.		2
118	Structures Formed by Membrane Lipids â€” Physicochemical Properties and Possible Biological Relevance for Membrane Function. , 1990, , 43-64.		2
119	NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AND LIPID PHASE BEHAVIOUR AND LIPID DIFFUSION. , 2012, , 133-209.		1
120	NMR and Polarized Emission Studies of Cubic Phases and Model Membranes. , 1984, , 219-236.		1
121	Lipid lateral diffusion in binary and ternary systems of phosphatidylcholines, sphingomyelins and sterols studied by pfg-NMR. Chemistry and Physics of Lipids, 2007, 149, S13-S14.	1.5	0