Alain Milon

List of Publications by Year
in descending order

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97 papers	3,411 citations	136950 32 h-index	161849 54 g-index
97 all docs	97 docs citations	97 times ranked	3948 citing authors

#	Article	IF	Citations
1	Acyl chain order parameter profiles in phospholipid bilayers: computation from molecular dynamics simulations and comparison with 2H NMR experiments. European Biophysics Journal, 2007, 36, 919-931.	2.2	304
2	Heterologous expression of G-protein-coupled receptors: comparison of expression systems from the standpoint of large-scale production and purification. Cellular and Molecular Life Sciences, 2003, 60, 1529-1546.	5.4	214
3	Differential effects of plant sterols on water permeability and on acyl chain ordering of soybean phosphatidylcholine bilayers.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6926-6930.	7.1	212
4	Organization of Carotenoid-Phospholipid Bilayer Systems. Incorporation of Zeaxanthin, Astaxanthin, and their C50 Homologues into Dimyristoylphosphatidylcholine Vesicles. Helvetica Chimica Acta, 1986, 69, 12-24.	1.6	101
5	Transferred nuclear Overhauser effect analyses of membrane-bound enkephalin analogs by proton nuclear magnetic resonance: correlation between activities and membrane-bound conformations. Biochemistry, 1990, 29, 65-75.	2.5	97
6	The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor Î± modulation, uncoupling nuclear and membrane activation. EMBO Molecular Medicine, 2014, 6, 1328-1346.	6.9	96
7	Comparison of the effects of inserted C40- and C50-terminally dihydroxylated carotenoids on the mechanical properties of various phospholipid vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1987, 903, 132-141.	2.6	94
8	Cholesterol Orientation and Dynamics in Dimyristoylphosphatidylcholine Bilayers: A Solid State Deuterium NMR Analysis. Biophysical Journal, 1999, 76, 351-359.	0.5	93
9	Recombinant G protein-coupled receptors from expression to renaturation: a challenge towards structure. Cellular and Molecular Life Sciences, 2006, 63, 1149-1164.	5.4	85
10	NMR structure and dynamics of the agonist dynorphin peptide bound to the human kappa opioid receptor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11852-11857.	7.1	80
11	Structure-Function Analysis of the THAP Zinc Finger of THAP1, a Large C2CH DNA-binding Module Linked to Rb/E2F Pathways. Journal of Biological Chemistry, 2008, 283, 4352-4363.	3.4	76
12	Optimizing Functional versus Total Expression of the Human Î¼-Opioid Receptor in Pichia pastoris. Protein Expression and Purification, 2002, 24, 212-220.	1.3	62
13	Structural determinants of specific DNA-recognition by the THAP zinc finger. Nucleic Acids Research, 2010, 38, 3466-3476.	14.5	59
14	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Influence of vesicle size, solute, temperature, cholesterol and three Î±,Ï‰-dihydroxycarotenoids. Biochimica Et Biophysica Acta - Biomembranes, 1986, 859, 1-9.	2.6	58
15	Influence of Annexin V on the Structure and Dynamics of Phosphatidylcholine/Phosphatidylserine Bilayers:Â A Fluorescence and NMR Studyâ€. Biochemistry, 1998, 37, 1403-1410.	2.5	55
16	Generation of formate by the formyltransferase/hydrolase complex (Fhc) fromMethylobacterium extorquensAM1. FEBS Letters, 2002, 523, 133-137.	2.8	54
17	Structure and dynamics of G protein-coupled receptorâ€“bound ghrelin reveal the critical role of the octanoyl chain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17525-17530.	7.1	53
18	Expression and pharmacological characterization of the human Î¼-opioid receptor in the methylotrophic yeastPichia pastoris. FEBS Letters, 1996, 394, 268-272.	2.8	52

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19	Order Parameters of a Transmembrane Helix in a Fluid Bilayer: Case Study of a WALP Peptide. Biophysical Journal, 2010, 98, 1864-1872.	0.5	51
20	Two Classes of Cholesterol Binding Sites for the Î² 2 AR Revealed byÂThermostability and NMR. Biophysical Journal, 2014, 107, 2305-2312.	0.5	50
21	The conical shape of DIM lipids promotes Mycobacterium tuberculosis infection of macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25649-25658.	7.1	49
22	Green fluorescent protein as a reporter of human Î¼-opioid receptor overexpression and localization in the methylotrophic yeast Pichia pastoris. Journal of Biotechnology, 2002, 99, 23-39.	3.8	47
23	Solution State NMR Structure and Dynamics of KpOmpA, a 210 Residue Transmembrane Domain Possessing a High Potential for Immunological Applications. Journal of Molecular Biology, 2009, 385, 117-130.	4.2	45
24	Solubilization, purification, and mass spectrometry analysis of the human mu-opioid receptor expressed in Pichia pastoris. Protein Expression and Purification, 2005, 43, 85-93.	1.3	44
25	Understanding Sterol-Membrane Interactions, Part II: Complete1H and13C Assignments by Solid-State NMR Spectroscopy and Determination of the Hydrogen-Bonding Partners of Cholesterol in a Lipid Bilayer. Chemistry - A European Journal, 2004, 10, 6005-6014.	3.3	42
26	Local and Global Dynamics in Klebsiella pneumoniae Outer Membrane Protein a in Lipid Bilayers Probed at Atomic Resolution. Journal of the American Chemical Society, 2017, 139, 1590-1597.	13.7	41
27	Optimisation of plant sterols incorporation in human keratinocyte plasma membrane and modulation of membrane fluidity. Chemistry and Physics of Lipids, 1999, 101, 255-265.	3.2	40
28	The Transmembrane Protein KpOmpA Anchoring the Outer Membrane of Klebsiella pneumoniae Unfolds and Refolds in Response to Tensile Load. Structure, 2012, 20, 121-127.	3.3	38
29	Methylobacterium extorquensAM1 produces a novel type of acyl-homoserine lactone with a double unsaturated side chain under methylotrophic growth conditions. FEBS Letters, 2006, 580, 561-567.	2.8	36
30	The Conformation of Cycloartenol Investigated by NMR and Molecular Mechanics. Helvetica Chimica Acta, 1989, 72, 1-13.	1.6	35
31	Hydrogen Bonding of Cholesterol in the Lipidic Cubic Phase. Langmuir, 2013, 29, 8031-8038.	3.5	35
32	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Elastic properties of vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 525-530.	2.6	34
33	Heterologous expression of a deuterated membrane-integrated receptor and partial deuteration in methylotrophic yeasts. Journal of Biomolecular NMR, 1999, 14, 231-239.	2.8	34
34	Deuterium-NMR investigation of plant sterol effects on soybean phosphatidylcholine acyl chain ordering. Chemistry and Physics of Lipids, 1992, 63, 235-241.	3.2	33
35	Studies on the Topography of Biomembranes: Regioselective Photolabelling in Vesicles with the Tandem Use of Cholesterol and a Photoactivable Transmembrane Phospholipidic Probe. Chemistry - A European Journal, 1996, 2, 129-138.	3.3	32
36	Nuclear magnetic resonance analysis of proteinâ€“DNA interactions. Journal of the Royal Society Interface, 2011, 8, 1065-1078.	3.4	31

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37	Engineering transglycosidase activity into a GH51 Î±-l-arabinofuranosidase. New Biotechnology, 2013, 30, 536-544.	4.4	29
38	The interaction of various cholesterol â€˜ancestorsâ€™ with lipid membranes: a 2H-NMR study on oriented bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1105, 213-220.	2.6	28
39	The Ralstonia solanacearum pathogenicity regulator HrpB induces 3-hydroxy-oxindole synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15870-15875.	7.1	28
40	NMR-Based Structural Glycomics for High-Throughput Screening of Carbohydrate-Active Enzyme Specificity. Analytical Chemistry, 2011, 83, 1202-1206.	6.5	28
41	Functional Expression of the PorAH Channel from Corynebacterium glutamicum in Cell-free Expression Systems. Journal of Biological Chemistry, 2011, 286, 32525-32532.	3.4	27
42	High resolution 2D correlation of cholesterol in model membrane. Journal of Magnetic Resonance, 2002, 158, 143-148.	2.1	26
43	Understanding Sterol-Membrane Interactions Part I: Hartree-Fock versus DFT Calculations of13C and1H NMR Isotropic Chemical Shifts of Sterols in Solution and Analysis of Hydrogen-Bonding Effects. Chemistry - A European Journal, 2004, 10, 5996-6004.	3.3	24
44	Fusogenic Alzheimer's peptide fragment AÎ² (29-42) in interaction with lipid bilayers: Secondary structure, dynamics, and specific interaction with phosphatidyl ethanolamine polar heads as revealed by solid-state NMR. Protein Science, 2005, 14, 1181-1189.	7.6	24
45	Identification of specific posttranslational O -mycoloylations mediating protein targeting to the mycomembrane. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4231-4236.	7.1	24
46	Ability of clionasterol and poriferasterol (24-epimers of sitosterol and stigmasterol) to regulate membrane lipid dynamics. Chemistry and Physics of Lipids, 1996, 84, 117-121.	3.2	23
47	Peptides as tools and drugs for immunotherapies. Journal of Peptide Science, 2007, 13, 588-602.	1.4	23
48	NMR studies of a new family of DNA binding proteins: the THAP proteins. Journal of Biomolecular NMR, 2013, 56, 3-15.	2.8	23
49	Synthesis of Deuterium-Labeled Plant Sterols and Analysis of Their Side-Chain Mobility by Solid State Deuterium NMR. Journal of Organic Chemistry, 1996, 61, 4252-4257.	3.2	22
50	Characterization of substance P-membrane interaction by transferred nuclear Overhauser effect. Biopolymers, 2000, 54, 297-306.	2.4	22
51	Partial atomic charges of amino acids in proteins. Proteins: Structure, Function and Bioinformatics, 2004, 56, 102-109.	2.6	22
52	Determination of the Orientation and Dynamics of Ergosterol in Model Membranes Using Uniform 13C Labeling and Dynamically Averaged 13C Chemical Shift Anisotropies as Experimental Restraints. Biophysical Journal, 2005, 89, 1120-1131.	0.5	22
53	Structural insights on the pamoic acid and the 8 kDa domain of DNA polymerase beta complex: Towards the design of higher-affinity inhibitors. BMC Structural Biology, 2008, 8, 22.	2.3	22
54	Preparation of Oriented Lipid Bilayer on Ultrathin Polymers for Solid-State NMR Analyses of Peptideâ€“Membrane Interactions. Journal of Magnetic Resonance, 1997, 124, 455-458.	2.1	21

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55	Plant sterols: a neutron diffraction study of sitosterol and stigmasterol in soybean phosphatidylcholine membranes. Biophysical Chemistry, 1998, 75, 45-55.	2.8	21
56	Towards the classification of DYT6 dystonia mutants in the DNA-binding domain of THAP1. Nucleic Acids Research, 2012, 40, 9927-9940.	14.5	21
57	Search for the Most â€˜primitiveâ€™ Membranes and Their Reinforcers: A Review of the Polyprenyl Phosphates Theory. Origins of Life and Evolution of Biospheres, 2014, 44, 197-208.	1.9	21
58	Selective Photolabeling near the Middle of Bilayers with a Photosensitive Transmembrane Probe. Angewandte Chemie International Edition in English, 1993, 32, 259-261.	4.4	20
59	Mutation of a pH-modulating residue in a GH51 Î±-l-arabinofuranosidase leads to a severe reduction of the secondary hydrolysis of transfuranosylation products. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 626-636.	2.4	20
60	Tricyclohexaprenol and an octaprenediol, two of the â€œprimitiveâ€•amphiphilic lipids do improve phospholipidic membranes. Tetrahedron, 1990, 46, 3143-3154.	1.9	19
61	1H nuclear magnetic resonance determination of the membrane-bound conformation of senktide, a highly selective neurokinin B agonist. Journal of Biomolecular NMR, 1993, 3, 443-61.	2.8	18
62	Structure and dynamics of dynorphin peptide and its receptor. Vitamins and Hormones, 2019, 111, 17-47.	1.7	18
63	Low cost production of perdeuterated biomass using methylotrophic yeasts. Journal of Labelled Compounds and Radiopharmaceuticals, 1993, 33, 1053-1063.	1.0	16
64	The Full-Length Mu-Opioid Receptor: A Conformational Study by Circular Dichroism in Trifluoroethanol and Membrane-Mimetic Environments. Journal of Membrane Biology, 2008, 223, 49-57.	2.1	16
65	Functional roles of H98 and W99 and Î²2Î±2 loop dynamics in the Î±â€<scp>l</scp>â€arabinofuranosidase from Thermobacillusâ€ƒxylanilyticus. FEBS Journal, 2012, 279, 3598-3611.	4.7	15
66	Detection of natural abundance 1Hâ€“13C correlations of cholesterol in its membrane environment using a gradient enhanced HSQC experiment under high resolution magic angle spinning. Journal of Magnetic Resonance, 2003, 165, 303-308.	2.1	14
67	Incorporation of phytosterols in human keratinocytes. Chemistry and Physics of Lipids, 2006, 141, 216-224.	3.2	14
68	Virtual and Biophysical Screening Targeting the Î³-Tubulin Complex â€“ A New Target for the Inhibition of Microtubule Nucleation. PLoS ONE, 2013, 8, e63908.	2.5	13
69	Small moleculeâ€“based targeting of TTD-A dimerization to control TFIIH transcriptional activity represents a potential strategy for anticancer therapy. Journal of Biological Chemistry, 2018, 293, 14974-14988.	3.4	12
70	Structureâ^'antigenicity relationship studies of the central conserved region of human respiratory syncytial virus proteinâ€ƒG. Chemical Biology and Drug Design, 2002, 60, 271-282.	1.1	11
71	Cord factor (trehalose 6,6â€²-dimycolate) forms fully stable and non-permeable lipid bilayers required for a functional outer membrane. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2173-2181.	2.6	11
72	NMR localization of the Oâ€mycoloylation on PorH, a channel forming peptide from Corynebacterium glutamicum. FEBS Letters, 2013, 587, 3687-3691.	2.8	10

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73	The C-terminal region of the transcriptional regulator THAP11 forms a parallel coiled-coil domain involved in protein dimerization. Journal of Structural Biology, 2016, 194, 337-346.	2.8	10
74	High resolution 13C NMR spectra on oriented lipid bilayers: from quantifying the various sources of line broadening to performing 2D experiments with 0.2-0.3 ppm resolution in the carbon dimension. Journal of Biomolecular NMR, 2002, 24, 15-30.	2.8	9
75	The N-Terminal End Truncated Mu-Opioid Receptor: from Expression to Circular Dichroism Analysis. Applied Biochemistry and Biotechnology, 2010, 160, 2175-2186.	2.9	9
76	A transferred NOE study of a tricyclic analog of acyclovir bound to thymidine kinase. Journal of Biomolecular NMR, 1996, 8, 261-272.	2.8	8
77	High-resolution 13C NMR of sterols in model membrane. Comptes Rendus Chimie, 2006, 9, 393-400.	0.5	8
78	The One-carbon Carrier Methylofuran from Methylobacterium extorquens AM1 Contains a Large Number of Î±- and Î³-Linked Glutamic Acid Residues. Journal of Biological Chemistry, 2016, 291, 9042-9051.	3.4	8
79	Composition and phase behaviour of polar lipids isolated from Spirulina maxima cells grown in a perdeuterated medium. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1284, 196-202.	2.6	7
80	Differential binding to the Î±/Î²-tubulin dimer of vinorelbine and vinflunine revealed by nuclear magnetic resonance analyses. Biochemical Pharmacology, 2002, 64, 733-740.	4.4	7
81	15NT2â€² relaxation times of bacteriorhodopsin transmembrane amide nitrogens. Magnetic Resonance in Chemistry, 2004, 42, 212-217.	1.9	7
82	Description of the lowâ€affinity interaction between nociceptin and the second extracellular loop of its receptor by fluorescence and NMR spectroscopies. Journal of Peptide Science, 2008, 14, 1183-1194.	1.4	6
83	Study of the Specific Lipid Binding Properties of AÎ² 11â¯22 Fragment at Endosomal pH. Langmuir, 2009, 25, 10948-10953.	3.5	6
84	A protein nanocontainer targeting epithelial cancers: rational engineering, biochemical characterization, drug loading and cell delivery. Nanoscale, 2019, 11, 3248-3260.	5.6	6
85	Selektive Photomarkierung in der Mitte von Doppelschichten mit einer photosensitiven Transmembransonde. Angewandte Chemie, 1993, 105, 302-304.	2.0	5
86	GATEWAYâ„¢ technology and E. coli recombinant system produce a properly folded and functional recombinant allergen of the lipid transfer protein of apple (Mal d 3). Protein Expression and Purification, 2010, 70, 277-282.	1.3	5
87	Structural Analysis of the Carboxyl Terminal Peptide From Human Chorionic Gonadotropin Î²â€Subunit by Twoâ€Dimensional Nuclear Magnetic Resonance Spectroscopy. American Journal of Reproductive Immunology, 1996, 35, 156-162.	1.2	4
88	Dynamics of Klebsiella pneumoniae OmpA transmembrane domain: The four extracellular loops display restricted motion behavior in micelles and in lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2344-2353.	2.6	4
89	Solution-State NMR Spectroscopy of Membrane Proteins in Detergent Micelles: Structure of the Klebsiella pneumoniae Outer Membrane Protein A, KpOmpA. Methods in Molecular Biology, 2010, 654, 321-339.	0.9	4
90	Modelling the influence of hydrogen bond network on chemical shielding tensors description. GIAO-DFT study of WALP23 transmembrane Î±-helix as a test case. Physical Chemistry Chemical Physics, 2010, 12, 6999.	2.8	3

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91	Structural properties of a peptide derived from H+-V-ATPase subunit a. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1204-1212.	2.6	2
92	X-ray structure determination of a chiral synthon, essential for the synthesis of 25-2H-stigmasterol. Journal of Chemical Crystallography, 1995, 25, 783-786.	1.1	1
93	Structure/antigenicity relationship of cyclic and linear peptides mimicking the V3 loop of HTV2 envelope glycoprotein. Research in Virology, 1998, 149, 363-373.	0.7	1
94	Giant vesicles as an efficient intermediate for 2H NMR analyses of proteoliposomes in water suspension and in oriented lipid bilayers. Comptes Rendus Chimie, 2006, 9, 401-407.	0.5	1
95	The Monoolein-Cholesterol Cubic Phase: Characterization by NMR Spectroscopy. Biophysical Journal, 2012, 102, 390a.	0.5	0
96	Cholesterol-Gpcr (B2AR) Interaction in Lipidic Cubic Phase: Insight fromÂ13C NMR. Biophysical Journal, 2014, 106, 715a.	0.5	0
97	NMR Analyses of the Structure and Dynamics of Klebsiella Pneumoniae OMPA Domains and Full Length Protein. Biophysical Journal, 2014, 106, 193a.	0.5	0