

Alain Milon

List of Publications by Year in descending order

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97
papers

3,411
citations

136740

32
h-index

161609

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. <i>European Biophysics Journal</i> , 2007, 36, 919-931.	1.2	304
2	Heterologous expression of G-protein-coupled receptors: comparison of expression systems from the standpoint of large-scale production and purification. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1529-1546.	2.4	214
3	Differential effects of plant sterols on water permeability and on acyl chain ordering of soybean phosphatidylcholine bilayers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 6926-6930.	3.3	212
4	Organization of Carotenoid-Phospholipid Bilayer Systems. Incorporation of Zeaxanthin, Astaxanthin, and their C50 Homologues into Dimyristoylphosphatidylcholine Vesicles. <i>Helvetica Chimica Acta</i> , 1986, 69, 12-24.	1.0	101
5	Transferred nuclear Overhauser effect analyses of membrane-bound enkephalin analogs by proton nuclear magnetic resonance: correlation between activities and membrane-bound conformations. <i>Biochemistry</i> , 1990, 29, 65-75.	1.2	97
6	The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor $\hat{1}\pm$ modulation, uncoupling nuclear and membrane activation. <i>EMBO Molecular Medicine</i> , 2014, 6, 1328-1346.	3.3	96
7	Comparison of the effects of inserted C40- and C50-terminally dihydroxylated carotenoids on the mechanical properties of various phospholipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 903, 132-141.	1.4	94
8	Cholesterol Orientation and Dynamics in Dimyristoylphosphatidylcholine Bilayers: A Solid State Deuterium NMR Analysis. <i>Biophysical Journal</i> , 1999, 76, 351-359.	0.2	93
9	Recombinant G protein-coupled receptors from expression to renaturation: a challenge towards structure. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 1149-1164.	2.4	85
10	NMR structure and dynamics of the agonist dynorphin peptide bound to the human kappa opioid receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11852-11857.	3.3	80
11	Structure-Function Analysis of the THAP Zinc Finger of THAP1, a Large C2CH DNA-binding Module Linked to Rb/E2F Pathways. <i>Journal of Biological Chemistry</i> , 2008, 283, 4352-4363.	1.6	76
12	Optimizing Functional versus Total Expression of the Human $\hat{1}\frac{1}{4}$ -Opioid Receptor in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2002, 24, 212-220.	0.6	62
13	Structural determinants of specific DNA-recognition by the THAP zinc finger. <i>Nucleic Acids Research</i> , 2010, 38, 3466-3476.	6.5	59
14	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Influence of vesicle size, solute, temperature, cholesterol and three $\hat{1}\pm, \hat{1}\%$ -dihydroxycarotenoids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 859, 1-9.	1.4	58
15	Influence of Annexin V on the Structure and Dynamics of Phosphatidylcholine/Phosphatidylserine Bilayers: A Fluorescence and NMR Study. <i>Biochemistry</i> , 1998, 37, 1403-1410.	1.2	55
16	Generation of formate by the formyltransferase/hydrolase complex (Fhc) from <i>Methylobacterium extorquens</i> AM1. <i>FEBS Letters</i> , 2002, 523, 133-137.	1.3	54
17	Structure and dynamics of G protein-coupled receptor-bound ghrelin reveal the critical role of the octanoyl chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17525-17530.	3.3	53
18	Expression and pharmacological characterization of the human $\hat{1}\frac{1}{4}$ -opioid receptor in the methylotrophic yeast <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 1996, 394, 268-272.	1.3	52

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19	Order Parameters of a Transmembrane Helix in a Fluid Bilayer: Case Study of a WALP Peptide. <i>Biophysical Journal</i> , 2010, 98, 1864-1872.	0.2	51
20	Two Classes of Cholesterol Binding Sites for the β_2 AR Revealed by β -Thermostability and NMR. <i>Biophysical Journal</i> , 2014, 107, 2305-2312.	0.2	50
21	The conical shape of DIM lipids promotes <i>Mycobacterium tuberculosis</i> infection of macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25649-25658.	3.3	49
22	Green fluorescent protein as a reporter of human μ -opioid receptor overexpression and localization in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2002, 99, 23-39.	1.9	47
23	Solution State NMR Structure and Dynamics of KpOmpA, a 210 Residue Transmembrane Domain Possessing a High Potential for Immunological Applications. <i>Journal of Molecular Biology</i> , 2009, 385, 117-130.	2.0	45
24	Solubilization, purification, and mass spectrometry analysis of the human μ -opioid receptor expressed in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2005, 43, 85-93.	0.6	44
25	Understanding Sterol-Membrane Interactions, Part II: Complete ^1H and ^{13}C Assignments by Solid-State NMR Spectroscopy and Determination of the Hydrogen-Bonding Partners of Cholesterol in a Lipid Bilayer. <i>Chemistry - A European Journal</i> , 2004, 10, 6005-6014.	1.7	42
26	Local and Global Dynamics in <i>Klebsiella pneumoniae</i> Outer Membrane Protein a in Lipid Bilayers Probed at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1590-1597.	6.6	41
27	Optimisation of plant sterols incorporation in human keratinocyte plasma membrane and modulation of membrane fluidity. <i>Chemistry and Physics of Lipids</i> , 1999, 101, 255-265.	1.5	40
28	The Transmembrane Protein KpOmpA Anchoring the Outer Membrane of <i>Klebsiella pneumoniae</i> Unfolds and Refolds in Response to Tensile Load. <i>Structure</i> , 2012, 20, 121-127.	1.6	38
29	<i>Methylobacterium extorquens</i> AM1 produces a novel type of acyl-homoserine lactone with a double unsaturated side chain under methylotrophic growth conditions. <i>FEBS Letters</i> , 2006, 580, 561-567.	1.3	36
30	The Conformation of Cycloartenol Investigated by NMR and Molecular Mechanics. <i>Helvetica Chimica Acta</i> , 1989, 72, 1-13.	1.0	35
31	Hydrogen Bonding of Cholesterol in the Lipidic Cubic Phase. <i>Langmuir</i> , 2013, 29, 8031-8038.	1.6	35
32	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Elastic properties of vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 860, 525-530.	1.4	34
33	Heterologous expression of a deuterated membrane-integrated receptor and partial deuteration in methylotrophic yeasts. <i>Journal of Biomolecular NMR</i> , 1999, 14, 231-239.	1.6	34
34	Deuterium-NMR investigation of plant sterol effects on soybean phosphatidylcholine acyl chain ordering. <i>Chemistry and Physics of Lipids</i> , 1992, 63, 235-241.	1.5	33
35	Studies on the Topography of Biomembranes: Regioselective Photolabelling in Vesicles with the Tandem Use of Cholesterol and a Photoactivable Transmembrane Phospholipidic Probe. <i>Chemistry - A European Journal</i> , 1996, 2, 129-138.	1.7	32
36	Nuclear magnetic resonance analysis of protein-DNA interactions. <i>Journal of the Royal Society Interface</i> , 2011, 8, 1065-1078.	1.5	31

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37	Engineering transglycosidase activity into a GH51 Î±-l-arabinofuranosidase. <i>New Biotechnology</i> , 2013, 30, 536-544.	2.4	29
38	The interaction of various cholesterol ã€ˆancestorsã€™ with lipid membranes: a 2H-NMR study on oriented bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1105, 213-220.	1.4	28
39	The <i>Ralstonia solanacearum</i> pathogenicity regulator HrpB induces 3-hydroxy-oxindole synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15870-15875.	3.3	28
40	NMR-Based Structural Glycomics for High-Throughput Screening of Carbohydrate-Active Enzyme Specificity. <i>Analytical Chemistry</i> , 2011, 83, 1202-1206.	3.2	28
41	Functional Expression of the PorAH Channel from <i>Corynebacterium glutamicum</i> in Cell-free Expression Systems. <i>Journal of Biological Chemistry</i> , 2011, 286, 32525-32532.	1.6	27
42	High resolution 2D correlation of cholesterol in model membrane. <i>Journal of Magnetic Resonance</i> , 2002, 158, 143-148.	1.2	26
43	Understanding Sterol-Membrane Interactions Part I: Hartree-Fock versus DFT Calculations of ¹³ C and ¹ H NMR Isotropic Chemical Shifts of Sterols in Solution and Analysis of Hydrogen-Bonding Effects. <i>Chemistry - A European Journal</i> , 2004, 10, 5996-6004.	1.7	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. <i>Protein Science</i> , 2005, 14, 1181-1189.	3.1	24
45	Identification of specific posttranslational <i>O</i>-mycoloylations mediating protein targeting to the mycomembrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4231-4236.	3.3	24
46	Ability of clionasterol and poriferasterol (24-epimers of sitosterol and stigmasterol) to regulate membrane lipid dynamics. <i>Chemistry and Physics of Lipids</i> , 1996, 84, 117-121.	1.5	23
47	Peptides as tools and drugs for immunotherapies. <i>Journal of Peptide Science</i> , 2007, 13, 588-602.	0.8	23
48	NMR studies of a new family of DNA binding proteins: the THAP proteins. <i>Journal of Biomolecular NMR</i> , 2013, 56, 3-15.	1.6	23
49	Synthesis of Deuterium-Labeled Plant Sterols and Analysis of Their Side-Chain Mobility by Solid State Deuterium NMR. <i>Journal of Organic Chemistry</i> , 1996, 61, 4252-4257.	1.7	22
50	Characterization of substance P-membrane interaction by transferred nuclear Overhauser effect. <i>Biopolymers</i> , 2000, 54, 297-306.	1.2	22
51	Partial atomic charges of amino acids in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 102-109.	1.5	22
52	Determination of the Orientation and Dynamics of Ergosterol in Model Membranes Using Uniform ¹³ C Labeling and Dynamically Averaged ¹³ C Chemical Shift Anisotropies as Experimental Restraints. <i>Biophysical Journal</i> , 2005, 89, 1120-1131.	0.2	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. <i>BMC Structural Biology</i> , 2008, 8, 22.	2.3	22
54	Preparation of Oriented Lipid Bilayer on Ultrathin Polymers for Solid-State NMR Analyses of Peptideã€ˆMembrane Interactions. <i>Journal of Magnetic Resonance</i> , 1997, 124, 455-458.	1.2	21

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55	Plant sterols: a neutron diffraction study of sitosterol and stigmasterol in soybean phosphatidylcholine membranes. <i>Biophysical Chemistry</i> , 1998, 75, 45-55.	1.5	21
56	Towards the classification of DYT6 dystonia mutants in the DNA-binding domain of THAP1. <i>Nucleic Acids Research</i> , 2012, 40, 9927-9940.	6.5	21
57	Search for the Most "primitive" Membranes and Their Reinforcers: A Review of the Polyprenyl Phosphates Theory. <i>Origins of Life and Evolution of Biospheres</i> , 2014, 44, 197-208.	0.8	21
58	Selective Photolabeling near the Middle of Bilayers with a Photosensitive Transmembrane Probe. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 259-261.	4.4	20
59	Mutation of a pH-modulating residue in a GH51 β -l-arabinofuranosidase leads to a severe reduction of the secondary hydrolysis of transfuransylation products. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 626-636.	1.1	20
60	Tricyclohexaprenol and an octaprenediol, two of the "primitive" amphiphilic lipids do improve phospholipidic membranes. <i>Tetrahedron</i> , 1990, 46, 3143-3154.	1.0	19
61	¹ H nuclear magnetic resonance determination of the membrane-bound conformation of senktide, a highly selective neurokinin B agonist. <i>Journal of Biomolecular NMR</i> , 1993, 3, 443-61.	1.6	18
62	Structure and dynamics of dynorphin peptide and its receptor. <i>Vitamins and Hormones</i> , 2019, 111, 17-47.	0.7	18
63	Low cost production of perdeuterated biomass using methylotrophic yeasts. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1993, 33, 1053-1063.	0.5	16
64	The Full-Length Mu-Opioid Receptor: A Conformational Study by Circular Dichroism in Trifluoroethanol and Membrane-Mimetic Environments. <i>Journal of Membrane Biology</i> , 2008, 223, 49-57.	1.0	16
65	Functional roles of H98 and W99 and β 2 loop dynamics in the β -arabinofuranosidase from <i>Thermobacillus xylanilyticus</i> . <i>FEBS Journal</i> , 2012, 279, 3598-3611.	2.2	15
66	Detection of natural abundance ¹ H- ¹³ C correlations of cholesterol in its membrane environment using a gradient enhanced HSQC experiment under high resolution magic angle spinning. <i>Journal of Magnetic Resonance</i> , 2003, 165, 303-308.	1.2	14
67	Incorporation of phytosterols in human keratinocytes. <i>Chemistry and Physics of Lipids</i> , 2006, 141, 216-224.	1.5	14
68	Virtual and Biophysical Screening Targeting the β -Tubulin Complex " A New Target for the Inhibition of Microtubule Nucleation. <i>PLoS ONE</i> , 2013, 8, e63908.	1.1	13
69	Small molecule-based targeting of TTD-A dimerization to control TFIID transcriptional activity represents a potential strategy for anticancer therapy. <i>Journal of Biological Chemistry</i> , 2018, 293, 14974-14988.	1.6	12
70	Structure-antigenicity relationship studies of the central conserved region of human respiratory syncytial virus protein σ C. <i>Chemical Biology and Drug Design</i> , 2002, 60, 271-282.	1.2	11
71	Cord factor (trehalose 6,6'-dimycolate) forms fully stable and non-permeable lipid bilayers required for a functional outer membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2173-2181.	1.4	11
72	NMR localization of the O-methylolation on PorH, a channel forming peptide from <i>Corynebacterium glutamicum</i> . <i>FEBS Letters</i> , 2013, 587, 3687-3691.	1.3	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. <i>Journal of Structural Biology</i> , 2016, 194, 337-346.	1.3	10
74	High resolution ¹³ C 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. <i>Journal of Biomolecular NMR</i> , 2002, 24, 15-30.	1.6	9
75	The N-Terminal End Truncated Mu-Opioid Receptor: from Expression to Circular Dichroism Analysis. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 2175-2186.	1.4	9
76	A transferred NOE study of a tricyclic analog of acyclovir bound to thymidine kinase. <i>Journal of Biomolecular NMR</i> , 1996, 8, 261-272.	1.6	8
77	High-resolution ¹³ C NMR of sterols in model membrane. <i>Comptes Rendus Chimie</i> , 2006, 9, 393-400.	0.2	8
78	The One-carbon Carrier Methylofuran from <i>Methylobacterium extorquens</i> AM1 Contains a Large Number of ¹ H- and ¹³ C-Linked Glutamic Acid Residues. <i>Journal of Biological Chemistry</i> , 2016, 291, 9042-9051.	1.6	8
79	Composition and phase behaviour of polar lipids isolated from <i>Spirulina maxima</i> cells grown in a perdeuterated medium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1284, 196-202.	1.4	7
80	Differential binding to the ¹ H/ ¹⁵ N-tubulin dimer of vinorelbine and vinflunine revealed by nuclear magnetic resonance analyses. <i>Biochemical Pharmacology</i> , 2002, 64, 733-740.	2.0	7
81	¹⁵ N T ₂ relaxation times of bacteriorhodopsin transmembrane amide nitrogens. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 212-217.	1.1	7
82	Description of the low affinity interaction between nociceptin and the second extracellular loop of its receptor by fluorescence and NMR spectroscopies. <i>Journal of Peptide Science</i> , 2008, 14, 1183-1194.	0.8	6
83	Study of the Specific Lipid Binding Properties of A11 ²² Fragment at Endosomal pH. <i>Langmuir</i> , 2009, 25, 10948-10953.	1.6	6
84	A protein nanocontainer targeting epithelial cancers: rational engineering, biochemical characterization, drug loading and cell delivery. <i>Nanoscale</i> , 2019, 11, 3248-3260.	2.8	6
85	Selektive Photomarkierung in der Mitte von Doppelschichten mit einer photosensitiven Transmembransonde. <i>Angewandte Chemie</i> , 1993, 105, 302-304.	1.6	5
86	GATEWAY [®] technology and <i>E. coli</i> recombinant system produce a properly folded and functional recombinant allergen of the lipid transfer protein of apple (Mal d 3). <i>Protein Expression and Purification</i> , 2010, 70, 277-282.	0.6	5
87	Structural Analysis of the Carboxyl Terminal Peptide From Human Chorionic Gonadotropin ¹²⁵ I-Subunit by Two-Dimensional Nuclear Magnetic Resonance Spectroscopy. <i>American Journal of Reproductive Immunology</i> , 1996, 35, 156-162.	1.2	4
88	Dynamics of <i>Klebsiella pneumoniae</i> OmpA transmembrane domain: The four extracellular loops display restricted motion behavior in micelles and in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2344-2353.	1.4	4
89	Solution-State NMR Spectroscopy of Membrane Proteins in Detergent Micelles: Structure of the <i>Klebsiella pneumoniae</i> Outer Membrane Protein A, KpOmpA. <i>Methods in Molecular Biology</i> , 2010, 654, 321-339.	0.4	4
90	Modelling the influence of hydrogen bond network on chemical shielding tensors description. GIAO-DFT study of WALP23 transmembrane ¹ H-helix as a test case. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6999.	1.3	3

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91	Structural properties of a peptide derived from H ⁺ -V-ATPase subunit a. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1204-1212.	1.4	2
92	X-ray structure determination of a chiral synthon, essential for the synthesis of 25-2H-stigmasterol. <i>Journal of Chemical Crystallography</i> , 1995, 25, 783-786.	0.5	1
93	Structure/antigenicity relationship of cyclic and linear peptides mimicking the V3 loop of HTV2 envelope glycoprotein. <i>Research in Virology</i> , 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. <i>Comptes Rendus Chimie</i> , 2006, 9, 401-407.	0.2	1
95	The Monoolein-Cholesterol Cubic Phase: Characterization by NMR Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 390a.	0.2	0
96	Cholesterol-Gpcr (B2AR) Interaction in Lipidic Cubic Phase: Insight from ¹³ C NMR. <i>Biophysical Journal</i> , 2014, 106, 715a.	0.2	0
97	NMR Analyses of the Structure and Dynamics of <i>Klebsiella Pneumoniae</i> OMPA Domains and Full Length Protein. <i>Biophysical Journal</i> , 2014, 106, 193a.	0.2	0