MichÃ¨le Auger

List of Publications by Year
in descending order

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112 papers	5,727 citations	126907 33 h-index	76900 74 g-index
112 all docs	112 docs citations	112 times ranked	5570 citing authors

#	Article	IF	Citations
1	Magnetically-orientable Tween-based model membranes for NMR studies of proteins. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183379.	2.6	3
2	Structure of a Parkinsonâ€™s Disease-Involved Î±-Synuclein Peptide Is Modulated by Membrane Composition and Physical State. Journal of Physical Chemistry B, 2020, 124, 3469-3481.	2.6	7
3	Vibrational Circular Dichroism Reveals Supramolecular Chirality Inversion of Î±-Synuclein Peptide Assemblies upon Interactions with Anionic Membranes. ACS Nano, 2019, 13, 3232-3242.	14.6	30
4	Crown ether modified peptide interactions with model membranesâ€¡. Supramolecular Chemistry, 2019, 31, 159-171.	1.2	2
5	Lipid membrane interactions of a fluorinated peptide with potential ion channelâ€forming ability. Peptide Science, 2019, 111, e24051.	1.8	3
6	Novel approaches to probe the binding of recoverin to membranes. European Biophysics Journal, 2018, 47, 679-691.	2.2	4
7	New insights into the influence of monofluorination on dimyristoylphosphatidylcholine membrane properties: A solid-state NMR study. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 654-663.	2.6	6
8	Towards the use of monofluorinated dimyristoylphosphatidylcholines as 19F NMR reporters in bacterial model membranes. Journal of Fluorine Chemistry, 2018, 206, 43-47.	1.7	2
9	Electrostatic Interactions to Guide the Self-Assembly of Highly Ordered Amyloid-Like Nanostructures. Biophysical Journal, 2018, 114, 587a-588a.	0.5	0
10	Transdermal diffusion, spatial distribution and physical state of a potential anticancer drug in mouse skin as studied by diffusion and spectroscopic techniques. Biomedical Spectroscopy and Imaging, 2018, 7, 47-61.	1.2	1
11	Understanding amyloid fibril formation using protein fragments: structural investigations via vibrational spectroscopy and solid-state NMR. Biophysical Reviews, 2018, 10, 1133-1149.	3.2	28
12	Progress in the synthesis of fluorinated phosphatidylcholines for biological applications. Organic and Biomolecular Chemistry, 2018, 16, 4925-4941.	2.8	7
13	Influence of the Length and Charge on the Activity of Î±-Helical Amphipathic Antimicrobial Peptides. Biochemistry, 2017, 56, 1680-1695.	2.5	83
14	Spectroscopic Investigation of Î±-Synuclein 71-82, a Peptide Derived from a Protein Involved in Parkinson's Disease. Biophysical Journal, 2017, 112, 478a-479a.	0.5	0
15	Structural and Mechanical Roles for the C-Terminal Nonrepetitive Domain Become Apparent in Recombinant Spider Aciniform Silk. Biomacromolecules, 2017, 18, 3678-3686.	5.4	17
16	A quantitative analysis of the supercontraction-induced molecular disorientation of major ampullate spider silk. Physical Chemistry Chemical Physics, 2017, 19, 31487-31498.	2.8	13
17	A Flexible Synthetic Approach to Phosphatidylglycerols. European Journal of Organic Chemistry, 2017, 2017, 6401-6407.	2.4	6
18	Membrane fluidity is a driving force for recoverin myristoyl immobilization in zwitterionic lipids. Biochemical and Biophysical Research Communications, 2017, 490, 1268-1273.	2.1	6

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19	Membrane solid-state NMR in Canada: A historical perspective. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1483-1489.	2.3	1
20	Major Ampullate Spider Silk with Indistinguishable Spidroin Dope Conformations Leads to Different Fiber Molecular Structures. International Journal of Molecular Sciences, 2016, 17, 1353.	4.1	16
21	A 3D-psoriatic skin model for dermatological testing: The impact of culture conditions. Biochemistry and Biophysics Reports, 2016, 8, 268-276.	1.3	16
22	Amphiphilicity Is a Key Determinant in the Membrane Interactions of Synthetic 14-mer Cationic Peptide Analogues. Biochemistry, 2016, 55, 6919-6930.	2.5	10
23	Discriminating Lipidâ€“ from Proteinâ€“Calcium Binding To Understand the Interaction between Recoverin and Phosphatidylglycerol Model Membranes. Biochemistry, 2016, 55, 3481-3491.	2.5	11
24	Spider silk as a blueprint for greener materials: a review. International Materials Reviews, 2016, 61, 127-153.	19.3	54
25	Spider silk inspired materials and sustainability: perspective. Materials Technology, 2016, , 1-16.	3.0	7
26	Membrane Assembly and Ion Transport Ability of a Fluorinated Nanopore. PLoS ONE, 2016, 11, e0166587.	2.5	6
27	Effect of Mechanical Deformation on the Structure of Regenerated Bombyx mori Silk Fibroin Films as Revealed Using Raman and Infrared Spectroscopy. Applied Spectroscopy, 2015, 69, 689-698.	2.2	8
28	Mimicking and Understanding the Agglutination Effect of the Antimicrobial Peptide Thanatin Using Model Phospholipid Vesicles. Biochemistry, 2015, 54, 3932-3941.	2.5	30
29	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor. Scientific Reports, 2015, 5, 11502.	3.3	39
30	Oriented samples: a tool for determining the membrane topology and the mechanism of action of cationic antimicrobial peptides by solid-state NMR. Biophysical Reviews, 2015, 7, 311-320.	3.2	15
31	Membrane Interactions of Synthetic Peptides with Antimicrobial Potential: Effect of Electrostatic Interactions and Amphiphilicity. Probiotics and Antimicrobial Proteins, 2015, 7, 66-74.	3.9	22
32	Evaluation of the effect of fluorination on the property of monofluorinated dimyristoylphosphatidylcholines. Organic and Biomolecular Chemistry, 2014, 12, 5126-5135.	2.8	11
33	Besides Fibrillization: Putative Role of the Peptide Fragment 71â€“82 on the Structural and Assembly Behavior of Î±-Synuclein. Biochemistry, 2014, 53, 6463-6472.	2.5	11
34	A comparative study between human skin substitutes and normal human skin using Raman microspectroscopy. Acta Biomaterialia, 2014, 10, 2703-2711.	8.3	29
35	Investigation of the mechanism of action of novel amphipathic peptides: Insights from solid-state NMR studies of oriented lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2173-2179.	2.6	9
36	The Thermal Stability of Recoverin Depends on Calcium Binding and Its Myristoyl Moiety As Revealed by Infrared Spectroscopy. Biochemistry, 2014, 53, 48-56.	2.5	7

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37	Study of In Vitro Capillary-Like Structures in Psoriatic Skin Substitutes. BioResearch Open Access, 2014, 3, 197-205.	2.6	12
38	Effect of pH on the Structure of the Recombinant C-Terminal Domain of Nephila clavipes Dragline Silk Protein. Biomacromolecules, 2014, 15, 4447-4454.	5.4	42
39	Spectroscopic Investigations of Synthetic Amphiphilic Peptides in Interactions with Model Membranes. Biophysical Journal, 2014, 106, 86a.	0.5	0
40	CHAPTER 11. Membrane Interactions of Amphiphilic Peptides with Antimicrobial Potential: A Solid-State NMR Study. New Developments in NMR, 2014, , 200-213.	0.1	1
41	Characterization of the structure of human skin substitutes by infrared microspectroscopy. Analytical and Bioanalytical Chemistry, 2013, 405, 8709-8718.	3.7	22
42	Structure and membrane interactions of the Î²-amyloid fragment 25â€“35 as viewed using spectroscopic approaches. Physical Chemistry Chemical Physics, 2013, 15, 7228.	2.8	14
43	Evidence by infrared spectroscopy of the presence of two types of Î²-sheets in major ampullate spider silk and silkworm silk. Soft Matter, 2013, 9, 208-215.	2.7	83
44	Exploiting Peptide Nanostructures To Construct Functional Artificial Ion Channels. Accounts of Chemical Research, 2013, 46, 2934-2943.	15.6	85
45	Synthesis and properties of monofluorinated dimyristoylphosphatidylcholine derivatives: Potential fluorinated probes for the study of membrane topology. Organic and Biomolecular Chemistry, 2012, 10, 1145-1148.	2.8	12
46	Structure and pHâ€induced alterations of recombinant and natural spider silk proteins in solution. Biopolymers, 2012, 97, 337-346.	2.4	13
47	Effect of Electrostatic Interactions on the Membrane Interactions of Amphiphilic Peptides with Antimicrobial Potential. Biophysical Journal, 2012, 102, 89a-90a.	0.5	1
48	Determining the Mode of Action Involved in the Antimicrobial Activity ofÂSynthetic Peptides: A Solid-State NMR and FTIR Study. Biophysical Journal, 2012, 103, 1470-1479.	0.5	21
49	Stabilization and Structure Determination of the Recombinant C-Terminal Domain of Nephila Clavipes Dragline Silk. Biophysical Journal, 2012, 102, 389a.	0.5	0
50	Solid-state nuclear magnetic resonance (NMR) spectroscopy reveals distinctive protein dynamics in closely related spider silks. Canadian Journal of Chemistry, 2011, 89, 1047-1054.	1.1	4
51	Biophysical studies of the interactions between the phage Ï•KZ gp144 lytic transglycosylase and model membranes. European Biophysics Journal, 2010, 39, 263-276.	2.2	6
52	Synthesis of Fluorineâ€Containing Molecular Rotors and Their Assembly on Gold Nanoparticles. European Journal of Organic Chemistry, 2010, 2010, 3049-3067.	2.4	9
53	Synthesis of [2]- and [3]rotaxanes through Sonogashira coupling. Tetrahedron Letters, 2009, 50, 5497-5500.	1.4	29
54	Spectroscopic characterization of DMPC/DOTAP cationic liposomes and their interactions with DNA and drugs. Chemistry and Physics of Lipids, 2009, 158, 91-101.	3.2	9

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55	Biophysical Studies Of The Membrane Interactions Of A Transthyretin Fragment TTR(10-20). Biophysical Journal, 2009, 96, 454a.	0.5	0
56	Structural Studies Of Recombinant And Natural Spider Silk Proteins Studied By Nuclear Magnetic Resonance; Insights For The Spinning Process. Biophysical Journal, 2009, 96, 586a.	0.5	0
57	Structure and Segmental Motions in a Substituted Polythiophene: A Solidâ€€State NMR Study. Macromolecular Chemistry and Physics, 2008, 209, 2455-2462.	2.2	14
58	The chain conformational order of ergosterol- or cholesterol-containing DPPC bilayers as modulated by Amphotericin B: a FTIR study. Chemistry and Physics of Lipids, 2008, 151, 41-50.	3.2	37
59	Structure and Membrane Interactions of Antimicrobial Peptides as Viewed by Solid-State NMR Spectroscopy. Annual Reports on NMR Spectroscopy, 2008, 63, 1-21.	1.5	7
60	Conformation of Spider Silk Proteins In Situ in the Intact Major Ampullate Gland and in Solution. Biomacromolecules, 2007, 8, 2342-2344.	5.4	63
61	Membrane composition modulates the interaction between a new class of antineoplastic agents deriving from aromatic 2-chloroethylureas and lipid bilayers: a solid-state NMR study. Chemistry and Physics of Lipids, 2007, 146, 125-135.	3.2	12
62	Peptidoglycan lytic activity of thePseudomonas aeruginosaphage ÃÂ†KZ gp144 lytic transglycosylase. FEMS Microbiology Letters, 2007, 266, 201-209.	1.8	50
63	Insights on the Interactions of Synthetic Amphipathic Peptides with Model Membranes as Revealed by 31P and 2H Solid-State NMR and Infrared Spectroscopies. Biophysical Journal, 2006, 90, 4071-4084.	0.5	32
64	The orientation effect of gramicidin A on bicelles and Eu3+-doped bicelles as studied by solid-state NMR and FT-IR spectroscopy. Chemistry and Physics of Lipids, 2006, 139, 137-149.	3.2	26
65	Lipid bilayer tethered inside a nanoporous support: a solid-state nuclear magnetic resonance investigation. Analytical Biochemistry, 2005, 336, 253-261.	2.4	9
66	Bicelles as model membranes for solid- and solution-state NMR studies of membrane peptides and proteins. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2005, 24A, 17-37.	0.5	176
67	Temperature and pressure dependent growth and morphology of DMPC/DSPC domains studied by Brewster angle microscopy. Chemistry and Physics of Lipids, 2005, 133, 165-179.	3.2	14
68	Bacterial species selective toxicity of two isomeric Î±/Î²-peptides: Role of membrane lipids. Molecular Membrane Biology, 2005, 22, 457-469.	2.0	31
69	Insights on the interaction of met-enkephalin with negatively charged membranesâ€”an infrared and solid-state NMR spectroscopic study. Chemistry and Physics of Lipids, 2004, 127, 175-187.	3.2	17
70	Anomalous Diffusion in a Gel-Fluid Lipid Environment: A Combined Solid-State NMR and Obstructed Random-Walk Perspective. Biophysical Journal, 2004, 87, 2456-2469.	0.5	9
71	A Multidimensional 1H NMR Investigation of the Conformation of Methionine-Enkephalin in Fast-Tumbling Bicelles. Biophysical Journal, 2004, 86, 1587-1600.	0.5	102
72	Interaction of antimicrobial peptides from Australian amphibians with lipid membranes. Chemistry and Physics of Lipids, 2003, 122, 107-120.	3.2	131

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73	Interaction of the Neuropeptide Met-Enkephalin with Zwitterionic and Negatively Charged Bicelles as Viewed by 31P and 2H Solid-State NMR. Biophysical Journal, 2003, 85, 328-339.	0.5	72
74	Interaction between Î²-Purothionin and Dimyristoylphosphatidylglycerol:A 31P-NMR and Infrared Spectroscopic Study. Biophysical Journal, 2002, 83, 2074-2083.	0.5	41
75	The effects of amphotericin B on pure and ergosterol- or cholesterol-containing dipalmitoylphosphatidylcholine bilayers as viewed by 2H NMR. Chemistry and Physics of Lipids, 2002, 119, 1-11.	3.2	57
76	Two-Dimensional Infrared Correlation Spectroscopy Study of the Aggregation of Cytochrome c in the Presence of Dimyristoylphosphatidylglycerol. Biophysical Journal, 2001, 81, 305-312.	0.5	60
77	Membrane interactions of a new class of anticancer agents derived from arylchloroethylurea: a FTIR spectroscopic study. Chemistry and Physics of Lipids, 2001, 111, 163-175.	3.2	13
78	Solid state 13C-NMR spectroscopy and XRD studies of commercial and pyrolytic carbon blacks. Carbon, 2000, 38, 1279-1287.	10.3	90
79	Investigation of the Temperature Behavior of the Bands Due to the Methylene Stretching Vibrations of Phospholipid Acyl Chains by Two-Dimensional Infrared Correlation Spectroscopy. Applied Spectroscopy, 2000, 54, 948-955.	2.2	38
80	Biological membrane structure by solid-state NMR. Current Issues in Molecular Biology, 2000, 2, 119-24.	2.4	21
81	Static and magic angle spinning NMR of membrane peptides and proteins. Progress in Nuclear Magnetic Resonance Spectroscopy, 1999, 35, 1-84.	7.5	72
82	Adsorption of stereoregular poly(methyl methacrylates) on ?-alumina: Spectroscopic analysis. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2985-2995.	2.1	20
83	31P NMR First Spectral Moment Study of the Partial Magnetic Orientation of Phospholipid Membranes. Biophysical Journal, 1999, 77, 888-902.	0.5	87
84	Quantitative Orientation Measurements in Thin Lipid Films by Attenuated Total Reflection Infrared Spectroscopy. Biophysical Journal, 1999, 76, 539-551.	0.5	92
85	Monitoring the Aging Dynamics of Glycidyl Azide Polyurethane by NMR Relaxation Times. Macromolecules, 1999, 32, 1602-1610.	4.8	26
86	Measurement of the Lateral Diffusion of Dipalmitoylphosphatidylcholine Adsorbed on Silica Beads in the Absence and Presence of Melittin: A 31P Two-Dimensional Exchange Solid-State NMR Study. Biophysical Journal, 1998, 74, 857-868.	0.5	47
87	Interaction between lipid bilayers and a new class of antineoplastic agents derived from arylchloroethylurea: a 2H solid-state NMR study. Biochemistry and Cell Biology, 1998, 76, 465-471.	2.0	9
88	Interaction between lipid bilayers and a new class of antineoplastic agents derived from arylchloroethylurea: a ²H solid-state NMR study. Biochemistry and Cell Biology, 1998, 76, 465-471.	2.0	1
89	Membrane structure and dynamics as viewed by solid-state NMR spectroscopy. Biophysical Chemistry, 1997, 68, 233-241.	2.8	20
90	Multinuclear solid-state nmr spectroscopy of envelopes from virgin and explanted silicone breast prostheses: An exploratory study. Magnetic Resonance in Medicine, 1997, 37, 11-17.	3.0	14

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91	13C-NMR spectroscopy study of polyurethane obtained from azide hydroxyl-terminated polymer cured with isophorone diisocyanate (IPDI). Journal of Polymer Science Part A, 1997, 35, 2991-2998.	2.3	43
92	Model of interaction between a cardiotoxin and dimyristoylphosphatidic acid bilayers determined by solid-state 31P NMR spectroscopy. Biophysical Journal, 1996, 70, 1737-1744.	0.5	19
93	Interaction of 4-tert-Butyl-[3-(2-chloroethyl) Ureido] Benzene with Phosphatidylcholine Bilayers: A Differential Scanning Calorimetry and Infrared Spectroscopy Study. Archives of Biochemistry and Biophysics, 1996, 334, 193-199.	3.0	17
94	High resolution solid-state29si nmr spectroscopy of silicone gels used to fill breast prostheses. Magnetic Resonance in Medicine, 1995, 34, 548-554.	3.0	10
95	Structural model for the Î²-amyloid fibril based on interstrand alignment of an antiparallel-sheet comprising a C-terminal peptide. Nature Structural and Molecular Biology, 1995, 2, 990-998.	8.2	423
96	Rotational Resonance Solid-State NMR Elucidates a Structural Model of Pancreatic Amyloid. Journal of the American Chemical Society, 1995, 117, 3539-3546.	13.7	130
97	Heteronuclear decoupling in rotating solids. Journal of Chemical Physics, 1995, 103, 6951-6958.	3.0	2,064
98	High resolution 1H nuclear magnetic resonance of a transmembrane peptide. Biophysical Journal, 1995, 69, 1917-1932.	0.5	91
99	High-speed magic angle spinning solid-state 1H nuclear magnetic resonance study of the conformation of gramicidin A in lipid bilayers. Biophysical Journal, 1995, 69, 1933-1938.	0.5	43
100	New approach to study fast and slow motions in lipid bilayers: application to dimyristoylphosphatidylcholine-cholesterol interactions. Biophysical Journal, 1995, 68, 1952-1959.	0.5	31
101	Internuclear distance measurement in a reaction intermediate: solid-state carbon-13 NMR rotational resonance determination of the Schiff base configuration in the M photointermediate of bacteriorhodopsin. Journal of the American Chemical Society, 1993, 115, 8515-8516.	13.7	45
102	Solvent history dependence of gramicidin-lipid interactions: a Raman and infrared spectroscopic study. Biophysical Journal, 1993, 65, 2484-2492.	0.5	57
103	The structural basis of pancreatic amyloid formation: isotope-edited spectroscopy in the solid state. Journal of the American Chemical Society, 1992, 114, 790-791.	13.7	66
104	Molecular Details of Anesthetic-Lipid Interaction. Annals of the New York Academy of Sciences, 1991, 625, 668-684.	3.8	34
105	Slow motions in lipid bilayers. Direct detection by two-dimensional solid-state deuterium nuclear magnetic resonance. Biophysical Journal, 1991, 59, 31-38.	0.5	26
106	An unusual peptide conformation may precipitate amyloid formation in Alzheimer's disease: application of solid-state NMR to the determination of protein secondary structure. Biochemistry, 1991, 30, 10382-10387.	2.5	103
107	Elucidation of slow motions in glycoglycerolipid bilayers by two-dimensional solid-state deuteron NMR. Chemical Physics Letters, 1990, 165, 162-167.	2.6	23
108	Elucidation of motional modes in glycoglycerolipid bilayers. A deuterium NMR relaxation and line-shape study. Journal of the American Chemical Society, 1990, 112, 1373-1381.	13.7	43

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109	Structure and Dynamics of the Glycolipid Components of Membrane Receptors:2H NMR Provides a Route to In Vivo Observation. Annals of the New York Academy of Sciences, 1989, 568, 44-51.	3.8	1
110	Deuterium NMR as a monitor of organization and dynamics at the surface of membranes: the glycolipids. Progress in Clinical and Biological Research, 1989, 292, 13-22.	0.2	0
111	The effect of pH on the interactions in mixed monolayers between phosphatidylserine and all-Trans retinal. Journal of Colloid and Interface Science, 1988, 123, 1-7.	9.4	2
112	Interactions of the local anesthetic tetracaine with membranes containing phosphatidylcholine and cholesterol: a deuterium NMR study. Biochemistry, 1988, 27, 4660-4667.	2.5	63