

Philip T F Williamson

List of Publications by Year in descending order

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57
papers

1,691
citations

304743

22
h-index

289244

40
g-index

60
all docs

60
docs citations

60
times ranked

2342
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis of membrane disruption and cellular toxicity by Î±-synuclein oligomers. <i>Science</i> , 2017, 358, 1440-1443.	12.6	492
2	A mirror code for protein-cholesterol interactions in the two leaflets of biological membranes. <i>Scientific Reports</i> , 2016, 6, 21907.	3.3	105
3	NMR Characterization of Native Liquid Spider Dragline Silk from <i>Nephila edulis</i> . <i>Biomacromolecules</i> , 2004, 5, 834-839.	5.4	74
4	Molecular Insight into the Electrostatic Membrane Surface Potential by ¹⁴ N/ ³¹ P MAS NMR Spectroscopy: A Nociceptin- ω -Lipid Association. <i>Journal of the American Chemical Society</i> , 2005, 127, 6610-6616.	13.7	66
5	C ₆₀ fullerene localization and membrane interactions in RAW 264.7 immortalized mouse macrophages. <i>Nanoscale</i> , 2016, 8, 4134-4144.	5.6	60
6	Macroscopic Orientation of Natural and Model Membranes for Structural Studies. <i>Analytical Biochemistry</i> , 1997, 254, 132-138.	2.4	56
7	Relevance of CARC and CRAC Cholesterol-Recognition Motifs in the Nicotinic Acetylcholine Receptor and Other Membrane-Bound Receptors. <i>Current Topics in Membranes</i> , 2017, 80, 3-23.	0.9	56
8	Lipid Concentration and Molar Ratio Boundaries for the Use of Isotropic Bicelles. <i>Langmuir</i> , 2014, 30, 6162-6170.	3.5	54
9	Determination of Internuclear Distances in Uniformly Labeled Molecules by Rotational-Resonance Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2003, 125, 2718-2722.	13.7	49
10	The conformation of acetylcholine at its target site in the membrane-embedded nicotinic acetylcholine receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18031-18036.	7.1	48
11	NMR of bicelles: orientation and mosaic spread of the liquid-crystal director under sample rotation. <i>Journal of Biomolecular NMR</i> , 2003, 25, 113-123.	2.8	36
12	Lipid Driven Nanodomains in Giant Lipid Vesicles are Fluid and Disordered. <i>Scientific Reports</i> , 2017, 7, 5460.	3.3	34
13	An efficient NMR method for the characterisation of ¹⁴ N sites through indirect ¹³ C detection. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7613.	2.8	33
14	Probing the Agonist Binding Pocket in the Nicotinic Acetylcholine Receptor: A High-Resolution Solid-State NMR Approach. <i>Biochemistry</i> , 1998, 37, 10854-10859.	2.5	32
15	Dynamics and orientation of N ⁺ (CD3)3-bromoacetylcholine bound to its binding site on the nicotinic acetylcholine receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2346-2351.	7.1	32
16	¹⁴ N overtone NMR under MAS: signal enhancement using symmetry-based sequences and novel simulation strategies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6577-6587.	2.8	32
17	Salt Gradient Modulation of MicroRNA Translocation through a Biological Nanopore. <i>Analytical Chemistry</i> , 2017, 89, 8822-8829.	6.5	32
18	Switched-angle spinning applied to bicelles containing phospholipid-associated peptides. <i>Journal of Biomolecular NMR</i> , 2003, 25, 125-132.	2.8	30

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19	Probing the interaction of lipids with the non-annular binding sites of the potassium channel KcsA by magic-angle spinning NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 90-96.	2.6	30
20	Probing the environment of neurotensin whilst bound to the neurotensin receptor by solid state NMR. <i>FEBS Letters</i> , 2002, 518, 111-115.	2.8	27
21	Stability and Membrane Orientation of the Fukutin Transmembrane Domain: A Combined Multiscale Molecular Dynamics and Circular Dichroism Study. <i>Biochemistry</i> , 2010, 49, 10796-10802.	2.5	24
22	Membrane protein structure determination by solid state NMR. <i>Natural Product Reports</i> , 1999, 16, 419-423.	10.3	22
23	Rotational-resonance distance measurements in multi-spin systems. <i>Journal of Magnetic Resonance</i> , 2004, 168, 314-326.	2.1	22
24	Orientation and Conformational Preference of Leucine-Enkephalin at the Surface of a Hydrated Dimyristoylphosphatidylcholine Bilayer: NMR and MD Simulation. <i>Journal of the American Chemical Society</i> , 2006, 128, 159-170.	13.7	22
25	Quantitative analysis of ¹⁴ N quadrupolar coupling using ¹ H detected ¹⁴ N solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5941-5949.	2.8	20
26	Single-channel electrophysiology of cell-free expressed ion channels by direct incorporation in lipid bilayers. <i>Analyst</i> , 2013, 138, 7294.	3.5	19
27	Solid-state NMR for the analysis of high-affinity ligand/receptor interactions. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2009, 34A, 144-172.	0.5	18
28	Structural and dynamic studies of the ¹³ C-M4 trans-membrane domain of the nicotinic acetylcholine receptor. <i>Molecular Membrane Biology</i> , 2005, 22, 485-496.	2.0	17
29	Expression and Purification of Recombinant Neurotensin in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2000, 19, 271-275.	1.3	16
30	Dynamics and Cleavability at the ¹³ C-Cleavage Site of APP(684-726) in Different Lipid Environments. <i>Biophysical Journal</i> , 2008, 95, 1460-1473.	0.5	15
31	Interaction between the NS4B amphipathic helix, AH2, and charged lipid headgroups alters membrane morphology and AH2 oligomeric state – Implications for the Hepatitis C virus life cycle. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1671-1677.	2.6	15
32	Structural and functional studies of the nicotinic acetylcholine receptor by solid-state NMR. <i>European Biophysics Journal</i> , 2004, 33, 247-54.	2.2	14
33	Probing the oligomeric state and interaction surfaces of Fukutin-I in dilauroylphosphatidylcholine bilayers. <i>European Biophysics Journal</i> , 2012, 41, 199-207.	2.2	13
34	¹⁴ N overtone transition in double rotation solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23748-23753.	2.8	13
35	Structural descriptions of ligands in their binding site of integral membrane proteins at near physiological conditions using solid-state NMR. <i>European Biophysics Journal</i> , 1998, 28, 84-90.	2.2	12
36	Measurement of ¹⁴ N quadrupole couplings in biomolecular solids using indirect-detection ¹⁴ N solid-state NMR with DNP. <i>Chemical Communications</i> , 2017, 53, 12116-12119.	4.1	11

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37	Binding Properties of the Stilbene Disulfonate Sites on Human Erythrocyte AE1: Kinetic, Thermodynamic, and Solid State Deuterium NMR Analyses. <i>Biochemistry</i> , 1999, 38, 11172-11179.	2.5	10
38	Magnetically Oriented Bicelles with Monoalkylphosphocholines: Versatile Membrane Mimetics for Nuclear Magnetic Resonance Applications. <i>Langmuir</i> , 2016, 32, 13244-13251.	3.5	9
39	Expression and purification of the transmembrane domain of Fukutin-I for biophysical studies. <i>Protein Expression and Purification</i> , 2010, 72, 107-112.	1.3	5
40	Solid state NMR studies of ligands bound to the nicotinic acetylcholine receptor. <i>Biochemical Society Transactions</i> , 1998, 26, S297-S297.	3.4	3
41	Morphological Differences between β -Microglobulin in Fibrils and Inclusion Bodies. <i>ChemBioChem</i> , 2011, 12, 556-558.	2.6	3
42	Comparative study of the structure and interaction of the pore helices of the hERG and Kv1.5 potassium channels in model membranes. <i>European Biophysics Journal</i> , 2017, 46, 549-559.	2.2	2
43	Bidirectional band-selective magnetization transfer along the protein backbone doubles the information content of solid-state NMR correlation experiments. <i>Journal of Biomolecular NMR</i> , 2017, 69, 197-205.	2.8	2
44	A Putative Role for Lipid-Protein Interactions in the Localisation of Glycosyltransferases within the Cell?. <i>Biophysical Journal</i> , 2011, 100, 636a-637a.	0.5	1
45	Determining the Role of NS4B in Membrane Remodelling during Hcv Replication. <i>Biophysical Journal</i> , 2013, 104, 594a.	0.5	1
46	Strategies for ^1H -Detected Dynamic Nuclear Polarization Magic Angle Spinning NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2020, 26, 15852-15854.	3.3	1
47	Magnetically aligned membrane mimetics enabling comparable chiroptical and magnetic resonance spectroscopy studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183343.	2.6	1
48	Probing the Interaction of Charged Lipids with the Potassium Channel KcsA. <i>Biophysical Journal</i> , 2009, 96, 379a.	0.5	0
49	Probing Molecular Interactions in Biological Membranes by Solid-State NMR. <i>Biophysical Journal</i> , 2009, 96, 207a.	0.5	0
50	The Fukutin Transmembrane Domain: Capturing the Complexity of the Golgi Apparatus Membrane via Multiscale MD Simulations. <i>Biophysical Journal</i> , 2011, 100, 640a.	0.5	0
51	Characterization of Mapcho Bicelles - Model Membranes for the NMR Study of Membrane Proteins and Peptides. <i>Biophysical Journal</i> , 2014, 106, 512a-513a.	0.5	0
52	Expression and Purification of a Functional hERG Pore Domain for Biophysical and Electrophysiological Studies. <i>Biophysical Journal</i> , 2014, 106, 137a.	0.5	0
53	Synchrotron Radiation Circular Dichroism (SRCD) Spectroscopy Investigations of the Structure and Orientation of Membrane Proteins in Oriented Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 110, 191a.	0.5	0
54	Optimization of Parameters for Nanopore Resistive Pulse Sensing of MicroRNA. <i>Biophysical Journal</i> , 2016, 110, 336a-337a.	0.5	0

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55	Solid State Nitrogen 14 NMR Methods for the Analysis of Hydrogen Bond Networks in Biological Systems. Biophysical Journal, 2016, 110, 154a-155a.	0.5	0
56	Molecular Insights into Biomolecular Structure and Dynamics by 14 N NMR. Biophysical Journal, 2017, 112, 447a.	0.5	0
57	The Development of a Novel Approach to Oriented Circular Dichroism using Magnetically-Aligned Bilayers. Biophysical Journal, 2017, 112, 585a.	0.5	0