

Robert Scott Prosser

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	5,344 citations	30 h-index	73 g-index
80 ext. papers	6,058 ext. citations	10.4 avg, IF	5.53 L-index

#	Paper	IF	Citations
71	Allosteric modulation of the adenosine A receptor by cholesterol.. <i>ELife</i> , 2022 , 11,	8.9	5
70	Delineating the conformational landscape of the adenosine A receptor during G protein coupling. <i>Cell</i> , 2021 , 184, 1884-1894.e14	56.2	30
69	Structures and Dynamics of Native-State Transmembrane Protein Targets and Bound Lipids. <i>Membranes</i> , 2021 , 11,	3.8	3
68	Allosteric regulation of the nickel-responsive NikR transcription factor from <i>Helicobacter pylori</i> . <i>Journal of Biological Chemistry</i> , 2021 , 296, 100069	5.4	3
67	Ligand modulation of the conformational dynamics of the A adenosine receptor revealed by single-molecule Fluorescence. <i>Scientific Reports</i> , 2021 , 11, 5910	4.9	5
66	Advances in the study of GPCRs by F NMR. <i>Current Opinion in Structural Biology</i> , 2021 , 69, 169-176	8.1	7
65	NMR-based approaches to the study of GPCRs and GPCR-ligand interactions 2020 , 65-80		0
64	Tailor-made GPCRs. <i>Nature Chemical Biology</i> , 2020 , 16, 5-6	11.7	
63	Qualitative and Quantitative Assessment of Biodiesel Derived from Microalgae. <i>Journal of Chemical Education</i> , 2020 , 97, 3791-3796	2.4	2
62	Substrate-Based Allosteric Regulation of a Homodimeric Enzyme. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11540-11556	16.4	13
61	Detergent- and phospholipid-based reconstitution systems have differential effects on constitutive activity of G-protein-coupled receptors. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13218-13223	5.4	19
60	Understanding Protein Function Through an Ensemble Description: Characterization of Functional States by F NMR. <i>Methods in Enzymology</i> , 2019 , 615, 103-130	1.7	13
59	Mechanistic insights into allosteric regulation of the A adenosine G protein-coupled receptor by physiological cations. <i>Nature Communications</i> , 2018 , 9, 1372	17.4	81
58	High-Efficiency Expression of Yeast-Derived G-Protein Coupled Receptors and F Labeling for Dynamical Studies. <i>Methods in Molecular Biology</i> , 2018 , 1688, 407-421	1.4	6
57	Direct quantitative C-filtered H magnetic resonance imaging of PEGylated biomacromolecules in vivo. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1553-1561	4.4	3
56	The role of dimer asymmetry and protomer dynamics in enzyme catalysis. <i>Science</i> , 2017 , 355,	33.3	113
55	In Situ Reconstitution of the Adenosine A Receptor in Spontaneously Formed Synthetic Liposomes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3607-3610	16.4	26

54	Utilizing tagged paramagnetic shift reagents to monitor protein dynamics by NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 1555-1563	4	3
53	Shell versus Core Dy ³⁺ Contributions to NMR Water Relaxation in Sodium Lanthanide Fluoride Core/Shell Nanoparticles. An Investigation Using O-17 and H-1 NMR. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17552-17558	3.8	8
52	Activation processes in ligand-activated G protein-coupled receptors: A case study of the adenosine A receptor. <i>BioEssays</i> , 2017 , 39, 1700072	4.1	13
51	Allosteric nanobodies reveal the dynamic range and diverse mechanisms of G-protein-coupled receptor activation. <i>Nature</i> , 2016 , 535, 448-52	50.4	205
50	Quantitative Detection of PEGylated Biomacromolecules in Biological Fluids by NMR. <i>Analytical Chemistry</i> , 2016 , 88, 3730-8	7.8	11
49	Activation of the A2A adenosine G-protein-coupled receptor by conformational selection. <i>Nature</i> , 2016 , 533, 265-8	50.4	202
48	A comparison of chemical shift sensitivity of trifluoromethyl tags: optimizing resolution in ¹⁹ F NMR studies of proteins. <i>Journal of Biomolecular NMR</i> , 2015 , 62, 97-103	3	38
47	Structural Insights into the Dynamic Process of β -Adrenergic Receptor Signaling. <i>Cell</i> , 2015 , 161, 1101-1111	15.1	409
46	Site-Specific Labeling of Protein Lysine Residues and N-Terminal Amino Groups with Indoles and Indole-Derivatives. <i>Bioconjugate Chemistry</i> , 2015 , 26, 2376-83	6.3	17
45	Nuts and Bolts of CF ₃ and CH ₃ NMR Toward the Understanding of Conformational Exchange of GPCRs. <i>Methods in Molecular Biology</i> , 2015 , 1335, 39-51	1.4	7
44	Temperature and pressure based NMR studies of detergent micelle phase equilibria. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5698-706	3.4	8
43	New pipelines for novel allosteric GPCR modulators. <i>Biophysical Journal</i> , 2014 , 107, 287-288	2.9	1
42	Conformational selection and functional dynamics of calmodulin: a (19)F nuclear magnetic resonance study. <i>Biochemistry</i> , 2014 , 53, 5727-36	3.2	22
41	¹⁹ F NMR studies of a desolvated near-native protein folding intermediate. <i>Biochemistry</i> , 2013 , 52, 5780-9	3.2	16
40	The dynamic process of β -adrenergic receptor activation. <i>Cell</i> , 2013 , 152, 532-42	56.2	589
39	The role of ligands on the equilibria between functional states of a G protein-coupled receptor. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9465-74	16.4	128
38	Dynamic equilibria between monomeric and oligomeric misfolded states of the mammalian prion protein measured by 19F NMR. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10533-41	16.4	23
37	Effects of a polar amino acid substitution on helix formation and aggregate size along the detergent-induced peptide folding pathway. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 373-81	3.8	8

36	Current applications of ^{19}F NMR to studies of protein structure and dynamics. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2012 , 62, 1-33	10.4	186
35	Lysine methylation strategies for characterizing protein conformations by NMR. <i>Journal of Biomolecular NMR</i> , 2012 , 54, 199-209	3	30
34	Role of detergents in conformational exchange of a G protein-coupled receptor. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36305-11	5.4	75
33	Effect of juxtamembrane tryptophans on the immersion depth of Synaptobrevin, an integral vesicle membrane protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 2994-9	3.8	8
32	Size-Tunable, Ultrasmall NaGdF ₄ Nanoparticles: Insights into Their T1MRI Contrast Enhancement. <i>Chemistry of Materials</i> , 2011 , 23, 3714-3722	9.6	368
31	Topology and immersion depth of an integral membrane protein by paramagnetic rates from dissolved oxygen. <i>Journal of Biomolecular NMR</i> , 2011 , 51, 173-83	3	11
30	Dioxygen transmembrane distributions and partitioning thermodynamics in lipid bilayers and micelles. <i>Biochemistry</i> , 2011 , 50, 3975-83	3.2	19
29	Ligand-specific regulation of the extracellular surface of a G-protein-coupled receptor. <i>Nature</i> , 2010 , 463, 108-12	50.4	393
28	Polymer-Stabilized Lanthanide Fluoride Nanoparticle Aggregates as Contrast Agents for Magnetic Resonance Imaging and Computed Tomography. <i>Chemistry of Materials</i> , 2010 , 22, 4728-4739	9.6	104
27	Approaches to the assignment of (^{19}F) resonances from 3-fluorophenylalanine labeled calmodulin using solution state NMR. <i>Journal of Biomolecular NMR</i> , 2010 , 47, 113-23	3	13
26	Optimizing ^{19}F NMR protein spectroscopy by fractional biosynthetic labeling. <i>Journal of Biomolecular NMR</i> , 2010 , 48, 113-21	3	17
25	Structure-based approach to the photocontrol of protein folding. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2283-9	16.4	93
24	A mutagenesis-free approach to assignment of (^{19}F) NMR resonances in biosynthetically labeled proteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2054-5	16.4	21
23	Approaches for the measurement of solvent exposure in proteins by ^{19}F NMR. <i>Journal of Biomolecular NMR</i> , 2009 , 45, 255-64	3	38
22	A solution NMR approach to the measurement of amphiphile immersion depth and orientation in membrane model systems. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6452-9	16.4	25
21	Molecular oxygen as a paramagnetic NMR probe of protein solvent exposure and topology. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2008 , 32A, 239-253	0.6	11
20	Oxygen as a paramagnetic probe of clustering and solvent exposure in folded and unfolded states of an SH3 domain. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1826-35	16.4	27
19	^{19}F NMR studies of solvent exposure and peptide binding to an SH3 domain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 221-30	4	40

18	The measurement of immersion depth and topology of membrane proteins by solution state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 3044-51	3.8	26
17	Topology of an outer-membrane enzyme: Measuring oxygen and water contacts in solution NMR studies of PagP. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8256-64	16.4	49
16	A combined NMR and molecular dynamics study of the transmembrane solubility and diffusion rate profile of dioxygen in lipid bilayers. <i>Biochemistry</i> , 2006 , 45, 10719-28	3.2	35
15	Tryptophan solvent exposure in folded and unfolded states of an SH3 domain by ¹⁹ F and ¹ H NMR. <i>Biochemistry</i> , 2006 , 45, 14120-8	3.2	30
14	Probing the transition state ensemble of a protein folding reaction by pressure-dependent NMR relaxation dispersion. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5262-9	16.4	41
13	Hydration and packing along the folding pathway of SH3 domains by pressure-dependent NMR. <i>Biochemistry</i> , 2006 , 45, 4711-9	3.2	27
12	Current applications of bicelles in NMR studies of membrane-associated amphiphiles and proteins. <i>Biochemistry</i> , 2006 , 45, 8453-65	3.2	208
11	An NMR study of the origin of dioxygen-induced spin-lattice relaxation enhancement and chemical shift perturbation. <i>Journal of Magnetic Resonance</i> , 2004 , 171, 225-32	3	19
10	Oxygen as a paramagnetic probe of membrane protein structure by cysteine mutagenesis and (¹⁹ F) NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1778-81	16.4	85
9	SANS study on the effect of lanthanide ions and charged lipids on the morphology of phospholipid mixtures. Small-angle neutron scattering. <i>Biophysical Journal</i> , 2002 , 82, 2487-98	2.9	106
8	SANS Study of the Structural Phases of Magnetically Alignable Lanthanide-Doped Phospholipid Mixtures. <i>Langmuir</i> , 2001 , 17, 2629-2638	4	114
7	Determination of membrane immersion depth with O(2): a high-pressure (¹⁹ F) NMR study. <i>Biophysical Journal</i> , 2001 , 80, 1406-16	2.9	49
6	Bicelles: a model membrane system for all seasons?. <i>Structure</i> , 1998 , 6, 1227-34	5.2	303
5	Use of a Novel Aqueous Liquid Crystalline Medium for High-Resolution NMR of Macromolecules in Solution. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11010-11011	16.4	106
4	Novel chelate-induced magnetic alignment of biological membranes. <i>Biophysical Journal</i> , 1998 , 75, 2163-9	2.9	77
3	Magnetically aligned phospholipid bilayers with positive ordering: a new model membrane system. <i>Biophysical Journal</i> , 1998 , 74, 2405-18	2.9	166
2	Isotropic solutions of phospholipid bicelles: a new membrane mimetic for high-resolution NMR studies of polypeptides. <i>Journal of Biomolecular NMR</i> , 1997 , 9, 329-35	3	197
1	Magnetically Aligned Membrane Model Systems with Positive Order Parameter: Switching the Sign of S _{zz} with Paramagnetic Ions. <i>Journal of the American Chemical Society</i> , 1996 , 118, 269-270	16.4	189

