Robert Scott Prosser

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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 5,344 30 73 g-index

80 6,058 10.4 5.53 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
71	The dynamic process of (2)-adrenergic receptor activation. <i>Cell</i> , 2013 , 152, 532-42	56.2	589
70	Structural Insights into the Dynamic Process of 🛭-Adrenergic Receptor Signaling. <i>Cell</i> , 2015 , 161, 1101-1	15161 2	409
69	Ligand-specific regulation of the extracellular surface of a G-protein-coupled receptor. <i>Nature</i> , 2010 , 463, 108-12	50.4	393
68	Size-Tunable, Ultrasmall NaGdF4Nanoparticles: Insights into Their T1MRI Contrast Enhancement. <i>Chemistry of Materials</i> , 2011 , 23, 3714-3722	9.6	368
67	Bicelles: a model membrane system for all seasons?. <i>Structure</i> , 1998 , 6, 1227-34	5.2	303
66	Current applications of bicelles in NMR studies of membrane-associated amphiphiles and proteins. <i>Biochemistry</i> , 2006 , 45, 8453-65	3.2	208
65	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
64	Activation of the A2A adenosine G-protein-coupled receptor by conformational selection. <i>Nature</i> , 2016 , 533, 265-8	50.4	202
63	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
62	Magnetically Aligned Membrane Model Systems with Positive Order Parameter: Switching the Sign of Szz with Paramagnetic Ions. <i>Journal of the American Chemical Society</i> , 1996 , 118, 269-270	16.4	189
61	Current applications of 19F NMR to studies of protein structure and dynamics. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2012 , 62, 1-33	10.4	186
60	Magnetically aligned phospholipid bilayers with positive ordering: a new model membrane system. <i>Biophysical Journal</i> , 1998 , 74, 2405-18	2.9	166
59	The role of ligands on the equilibria between functional states of a G protein-coupled receptor. Journal of the American Chemical Society, 2013 , 135, 9465-74	16.4	128
58	SANS Study of the Structural Phases of Magnetically Alignable Lanthanide-Doped Phospholipid Mixtures. <i>Langmuir</i> , 2001 , 17, 2629-2638	4	114
57	The role of dimer asymmetry and protomer dynamics in enzyme catalysis. <i>Science</i> , 2017 , 355,	33.3	113
56	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
55	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

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54	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
53	Structure-based approach to the photocontrol of protein folding. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2283-9	16.4	93
52	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
51	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
50	Novel chelate-induced magnetic alignment of biological membranes. <i>Biophysical Journal</i> , 1998 , 75, 216	3 29 9	77
49	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
48	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
47	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
46	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
45	19F 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
44	A comparison of chemical shift sensitivity of trifluoromethyl tags: optimizing resolution in IIF NMR studies of proteins. <i>Journal of Biomolecular NMR</i> , 2015 , 62, 97-103	3	38
43	Approaches for the measurement of solvent exposure in proteins by 19F NMR. <i>Journal of Biomolecular NMR</i> , 2009 , 45, 255-64	3	38
42	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
41	Lysine methylation strategies for characterizing protein conformations by NMR. <i>Journal of Biomolecular NMR</i> , 2012 , 54, 199-209	3	30
40	Tryptophan solvent exposure in folded and unfolded states of an SH3 domain by 19F and 1H NMR. <i>Biochemistry</i> , 2006 , 45, 14120-8	3.2	30
39	Delineating the conformational landscape of the adenosine A receptor during G protein coupling. <i>Cell</i> , 2021 , 184, 1884-1894.e14	56.2	30
38	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
37	Hydration and packing along the folding pathway of SH3 domains by pressure-dependent NMR. <i>Biochemistry</i> , 2006 , 45, 4711-9	3.2	27

36	In Situ Reconstitution of the Adenosine A Receptor in Spontaneously Formed Synthetic Liposomes. Journal of the American Chemical Society, 2017 , 139, 3607-3610	16.4	26
35	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
34	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
33	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
32	Conformational selection and functional dynamics of calmodulin: a (19)F nuclear magnetic resonance study. <i>Biochemistry</i> , 2014 , 53, 5727-36	3.2	22
31	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
30	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
29	Dioxygen transmembrane distributions and partitioning thermodynamics in lipid bilayers and micelles. <i>Biochemistry</i> , 2011 , 50, 3975-83	3.2	19
28	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
27	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
26	Optimizing IF NMR protein spectroscopy by fractional biosynthetic labeling. <i>Journal of Biomolecular NMR</i> , 2010 , 48, 113-21	3	17
25	IF NMR studies of a desolvated near-native protein folding intermediate. <i>Biochemistry</i> , 2013 , 52, 5780-	-93.2	16
24	Substrate-Based Allosteric Regulation of a Homodimeric Enzyme. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11540-11556	16.4	13
23	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
22	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
21	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
20	Quantitative Detection of PEGylated Biomacromolecules in Biological Fluids by NMR. <i>Analytical Chemistry</i> , 2016 , 88, 3730-8	7.8	11
19	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

(2020-2008)

18	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
17	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
16	Shell versus Core Dy3+ Contributions to NMR Water Relaxation in Sodium Lanthanide Fluoride CoreBhell Nanoparticles. An Investigation Using O-17 and H-1 NMR. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17552-17558	3.8	8
15	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
14	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
13	Nuts and Bolts of CF3 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
12	Advances in the study of GPCRs by F NMR. Current Opinion in Structural Biology, 2021, 69, 169-176	8.1	7
11	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
10	Allosteric modulation of the adenosine A receptor by cholesterol ELife, 2022, 11,	8.9	5
9	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
8	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
7	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
6	Structures and Dynamics of Native-State Transmembrane Protein Targets and Bound Lipids. <i>Membranes</i> , 2021 , 11,	3.8	3
5	Allosteric regulation of the nickel-responsive NikR transcription factor from Helicobacter pylori. Journal of Biological Chemistry, 2021 , 296, 100069	5.4	3
4	Qualitative and Quantitative Assessment of Biodiesel Derived from Microalgae. <i>Journal of Chemical Education</i> , 2020 , 97, 3791-3796	2.4	2
3	New pipelines for novel allosteric GPCR modulators. <i>Biophysical Journal</i> , 2014 , 107, 287-288	2.9	1
2	NMR-based approaches to the study of GPCRs and GPCR-ligand interactions 2020 , 65-80		О
1	Tailor-made GPCRs. <i>Nature Chemical Biology</i> , 2020 , 16, 5-6	11.7	