

Jan K Rainey

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.

73
papers

1,641
citations

22
h-index

38
g-index

82
ext. papers

1,841
ext. citations

4.3
avg, IF

4.75
L-index

#	Paper	IF	Citations
73	H, N and C backbone resonance assignments of the acidic domain of the human MDMX protein.. <i>Biomolecular NMR Assignments</i> , 2022 , 1	0.7	0
72	Multi-pin contact drawing enables production of anisotropic collagen fiber substrates for alignment of fibroblasts and monocytes.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 215, 112525	6	2
71	Antibacterial activities of physiologically stable, self-assembled peptide nanoparticles. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9041-9054	7.3	1
70	A network map of apelin-mediated signaling. <i>Journal of Cell Communication and Signaling</i> , 2021 , 1	5.2	5
69	On-cell nuclear magnetic resonance spectroscopy to probe cell surface interactions. <i>Biochemistry and Cell Biology</i> , 2021 , 99, 683-692	3.6	
68	The network map of Elabela signaling pathway in physiological and pathological conditions. <i>Journal of Cell Communication and Signaling</i> , 2021 , 1	5.2	1
67	Material properties of disulfide-crosslinked hyaluronic acid hydrogels influence prostate cancer cell growth and metabolism. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9718-9733	7.3	3
66	Recombinant Pyriform Silk Fiber Mechanics Are Modulated by Wet-Spinning Conditions. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4985-4993	5.5	6
65	Biomaterials: Recombinant Silk Fiber Properties Correlate to Prefibrillar Self-Assembly (Small 12/2019). <i>Small</i> , 2019 , 15, 1970065	11	
64	Bicelle composition-dependent modulation of phospholipid dynamics by apelin peptides. <i>Biochemistry and Cell Biology</i> , 2019 , 97, 325-332	3.6	1
63	Structure, amphipathy, and topology of the membrane-proximal helix 8 influence apelin receptor plasma membrane localization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 183036	3.8	2
62	Tyrosine Phosphorylation as a Widespread Regulatory Mechanism in Prokaryotes. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	9
61	Simultaneous Ligand and Receptor Tracking through NMR Spectroscopy Enabled by Distinct F Labels. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
60	Recombinant Silk Fiber Properties Correlate to Prefibrillar Self-Assembly. <i>Small</i> , 2019 , 15, e1805294	11	12
59	Proapelin is processed extracellularly in a cell line-dependent manner with clear modulation by proprotein convertases. <i>Amino Acids</i> , 2019 , 51, 395-405	3.5	4
58	Mixed Fluorotryptophan Substitutions at the Same Residue Expand the Versatility of F Protein NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018 , 24, 3391-3396	4.8	7
57	Concentration-dependent changes to diffusion and chemical shift of internal standard molecules in aqueous and micellar solutions. <i>Journal of Biomolecular NMR</i> , 2018 , 71, 79-89	3	3

56	Differential Contribution of Transmembrane Domains IV, V, VI, and VII to Human Angiotensin II Type 1 Receptor Homomer Formation. <i>Journal of Biological Chemistry</i> , 2017 , 292, 3341-3350	5.4	14
55	Inhibition of Transient Receptor Potential Channel Mucolipin-1 (TRPML1) by Lysosomal Adenosine Involved in Severe Combined Immunodeficiency Diseases. <i>Journal of Biological Chemistry</i> , 2017 , 292, 3445-3455	5.4	20
54	Apela exhibits isoform- and headgroup-dependent modulation of micelle binding, peptide conformation and dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 767-778	3.8	20
53	Pyrene-Apelin Conjugation Modulates Fluorophore- and Peptide-Micelle Interactions. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 4768-4777	3.4	7
52	Preserved Transmembrane Segment Topology, Structure, and Dynamics in Disparate Micellar Environments. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2381-2386	6.4	3
51	Bioactivity of the putative apelin proprotein expands the repertoire of apelin receptor ligands. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1901-1912	4	17
50	Structural and Mechanical Roles for the C-Terminal Nonrepetitive Domain Become Apparent in Recombinant Spider Aciniform Silk. <i>Biomacromolecules</i> , 2017 , 18, 3678-3686	6.9	8
49	Apelin conformational and binding equilibria upon micelle interaction primarily depend on membrane-mimetic headgroup. <i>Scientific Reports</i> , 2017 , 7, 15433	4.9	7
48	Apelinergic System Structure and Function. <i>Comprehensive Physiology</i> , 2017 , 8, 407-450	7.7	36
47	Transmembrane Segment XI of the Na/H Antiporter of <i>S. pombe</i> is a Critical Part of the Ion Translocation Pore. <i>Scientific Reports</i> , 2017 , 7, 12793	4.9	4
46	Identification of Wet-Spinning and Post-Spin Stretching Methods Amenable to Recombinant Spider Aciniform Silk. <i>Biomacromolecules</i> , 2016 , 17, 2737-46	6.9	18
45	Current strategies for protein production and purification enabling membrane protein structural biology. <i>Biochemistry and Cell Biology</i> , 2016 , 94, 507-527	3.6	65
44	Characterizing Aciniform Silk Repetitive Domain Backbone Dynamics and Hydrodynamic Modularity. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	4
43	Tracking Transitions in Spider Wrapping Silk Conformation and Dynamics by ¹⁹ F Nuclear Magnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2016 , 55, 3048-59	3.2	14
42	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor. <i>Scientific Reports</i> , 2015 , 5, 11502	4.9	25
41	Characterization of Variant Soft Nanoparticle Structure and Morphology in Solution by NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7461-7471	3.8	4
40	The p10 FAST protein fusion peptide functions as a cystine noose to induce cholesterol-dependent liposome fusion without liposome tubulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 408-16	3.8	11
39	Reovirus FAST Proteins Drive Pore Formation and Syncytiogenesis Using a Novel Helix-Loop-Helix Fusion-Inducing Lipid Packing Sensor. <i>PLoS Pathogens</i> , 2015 , 11, e1004962	7.6	11

38	NOS1AP Functionally Associates with YAP To Regulate Hippo Signaling. <i>Molecular and Cellular Biology</i> , 2015 , 35, 2265-77	4.8	17
37	The effect of perfluorooctadecanoic acid on a model phosphatidylcholine-peptide pulmonary lung surfactant mixture. <i>Journal of Fluorine Chemistry</i> , 2015 , 177, 55-61	2.1	3
36	The apelin receptor: physiology, pathology, cell signalling, and ligand modulation of a peptide-activated class A GPCR. <i>Biochemistry and Cell Biology</i> , 2014 , 92, 431-40	3.6	111
35	Small expression tags enhance bacterial expression of the first three transmembrane segments of the apelin receptor. <i>Biochemistry and Cell Biology</i> , 2014 , 92, 269-78	3.6	6
34	Nanoparticle self-assembly by a highly stable recombinant spider wrapping silk protein subunit. <i>FEBS Letters</i> , 2013 , 587, 3273-80	3.8	29
33	Preferential apelin-13 production by the proprotein convertase PCSK3 is implicated in obesity. <i>FEBS Open Bio</i> , 2013 , 3, 328-33	2.7	49
32	Structural features of the apelin receptor N-terminal tail and first transmembrane segment implicated in ligand binding and receptor trafficking. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 1471-83	3.8	29
31	A novel C-terminal region within the multicargo type III secretion chaperone CesT contributes to effector secretion. <i>Journal of Bacteriology</i> , 2013 , 195, 740-56	3.5	15
30	Preliminary investigation of the dissolution behavior, cytocompatibility, effects of fibrinogen conformation and platelet adhesion for radiopaque embolic particles. <i>Journal of Functional Biomaterials</i> , 2013 , 4, 89-113	4.8	3
29	Multifaceted substrate capture scheme of a rhomboid protease. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8942-54	3.4	22
28	¹ H, ¹³ C and ¹⁵ N NMR assignments of the aciniform spidroin (AcSp1) repetitive domain of <i>Argiope trifasciata</i> wrapping silk. <i>Biomolecular NMR Assignments</i> , 2012 , 6, 147-51	0.7	15
27	Recombinant minimalist spider wrapping silk proteins capable of native-like fiber formation. <i>PLoS ONE</i> , 2012 , 7, e50227	3.7	51
26	Biophysical characterization of G-protein coupled receptor-peptide ligand binding. <i>Biochemistry and Cell Biology</i> , 2011 , 89, 98-105	3.6	12
25	Improved helix and kink characterization in membrane proteins allows evaluation of kink sequence predictors. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 2213-20	6.1	52
24	Interpretation of biomolecular NMR spin relaxation parameters. <i>Biochemistry and Cell Biology</i> , 2010 , 88, 131-42	3.6	17
23	Correlating structure, dynamics, and function in transmembrane segment VII of the Na ⁺ /H ⁺ exchanger isoform 1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 94-104	3.8	8
22	Membrane catalysis of peptide-receptor binding. <i>Biochemistry and Cell Biology</i> , 2010 , 88, 203-10	3.6	23
21	The predictive accuracy of secondary chemical shifts is more affected by protein secondary structure than solvent environment. <i>Journal of Biomolecular NMR</i> , 2010 , 46, 257-70	3	24

20	Structural insight into G-protein coupled receptor binding by apelin. <i>Biochemistry</i> , 2009 , 48, 537-48	3.2	77
19	Headgroup-dependent membrane catalysis of apelin-receptor interactions is likely. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10465-71	3.4	32
18	Structural and functional characterization of transmembrane segment IX of the NHE1 isoform of the Na ⁺ /H ⁺ exchanger. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22018-30	5.4	32
17	Estimation and measurement of flat or solenoidal coil inductance for radiofrequency NMR coil design. <i>Journal of Magnetic Resonance</i> , 2007 , 187, 27-37	3	8
16	Structural and functional analysis of the Na ⁺ /H ⁺ exchanger. <i>Biochemical Journal</i> , 2007 , 401, 623-33	3.8	195
15	Structural and functional characterization of transmembrane segment VII of the Na ⁺ /H ⁺ exchanger isoform 1. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29817-29	5.4	60
14	Strategies for dealing with conformational sampling in structural calculations of flexible or kinked transmembrane peptides. <i>Biochemistry and Cell Biology</i> , 2006 , 84, 918-29	3.6	15
13	Nuclear magnetic resonance studies of CXC chemokine receptor 4 allosteric peptide agonists in solution. <i>Chemical Biology and Drug Design</i> , 2006 , 66, 12-21		3
12	Optimizing oriented planar-supported lipid samples for solid-state protein NMR. <i>Biophysical Journal</i> , 2005 , 89, 2792-805	2.9	19
11	A rotatable flat coil for static solid-state nuclear magnetic resonance spectroscopy. <i>Review of Scientific Instruments</i> , 2005 , 76, 086102	1.7	5
10	Structural and functional characterization of transmembrane segment IV of the NHE1 isoform of the Na ⁺ /H ⁺ exchanger. <i>Journal of Biological Chemistry</i> , 2005 , 280, 17863-72	5.4	74
9	An interactive triple-helical collagen builder. <i>Bioinformatics</i> , 2004 , 20, 2458-9	7.2	78
8	Statistically based reduced representation of amino acid side chains. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 817-30		5
7	A statistically derived parameterization for the collagen triple-helix. <i>Protein Science</i> , 2002 , 11, 2748-54	6.3	53
6	Construction with Collagen Insight through Atomic Force Microscopy. <i>Microscopy and Microanalysis</i> , 2002 , 8, 776-777	0.5	
5	Parallel Atomic Force Microscopy and NMR Spectroscopy To Investigate Self-Assembled Protein-Nucleotide Aggregates. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5553-5560	3.4	3
4	Hierarchical assembly and the onset of banding in fibrous long spacing collagen revealed by atomic force microscopy. <i>Matrix Biology</i> , 2002 , 21, 647-60	11.4	32
3	A study of fibrous long spacing collagen ultrastructure and assembly by atomic force microscopy. <i>Micron</i> , 2001 , 32, 341-53	2.3	44

2	Effect of a remote substituent on regioselectivity in oxymercuration of unsymmetrically substituted norbornenes. <i>Tetrahedron Letters</i> , 1999 , 40, 7727-7730	2	10
1	Fibrous long spacing collagen ultrastructure elucidated by atomic force microscopy. <i>Biophysical Journal</i> , 1998 , 74, 3211-6	2.9	58