

Marco Tonelli

List of Publications by Citations

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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.

57
papers

1,861
citations

19
h-index

42
g-index

59
ext. papers

2,497
ext. citations

5.8
avg, IF

5.18
L-index

#	Paper	IF	Citations
57	NMRFAM-SPARKY: enhanced software for biomolecular NMR spectroscopy. <i>Bioinformatics</i> , 2015 , 31, 1325-7	7.2	879
56	Dynamics connect substrate recognition to catalysis in protein kinase A. <i>Nature Chemical Biology</i> , 2010 , 6, 821-8	11.7	155
55	Direct NMR detection of the binding of functional ligands to the human sweet receptor, a heterodimeric Family 3 GPCR. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7212-3	16.4	61
54	Molecular recognition of RAS/RAF complex at the membrane: Role of RAF cysteine-rich domain. <i>Scientific Reports</i> , 2018 , 8, 8461	4.9	53
53	Human Mitochondrial Ferredoxin 1 (FDX1) and Ferredoxin 2 (FDX2) Both Bind Cysteine Desulfurase and Donate Electrons for Iron-Sulfur Cluster Biosynthesis. <i>Biochemistry</i> , 2017 , 56, 487-499	3.2	46
52	The dynamic structure of thrombin in solution. <i>Biophysical Journal</i> , 2012 , 103, 79-88	2.9	43
51	Integrative NMR for biomolecular research. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 307-32	3	36
50	Interactions of iron-bound frataxin with ISCU and ferredoxin on the cysteine desulfurase complex leading to Fe-S cluster assembly. <i>Journal of Inorganic Biochemistry</i> , 2018 , 183, 107-116	4.2	35
49	The metal chaperone Atox1 regulates the activity of the human copper transporter ATP7B by modulating domain dynamics. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18169-18177	5.4	31
48	Interactions between metal-binding domains modulate intracellular targeting of Cu(I)-ATPase ATP7B, as revealed by nanobody binding. <i>Journal of Biological Chemistry</i> , 2014 , 289, 32682-93	5.4	28
47	I-PINE web server: an integrative probabilistic NMR assignment system for proteins. <i>Journal of Biomolecular NMR</i> , 2019 , 73, 213-222	3	26
46	KRAS Prenylation Is Required for Bivalent Binding with Calmodulin in a Nucleotide-Independent Manner. <i>Biophysical Journal</i> , 2019 , 116, 1049-1063	2.9	25
45	Defining a two-pronged structural model for PB1 (Phox/Bem1p) domain interaction in plant auxin responses. <i>Journal of Biological Chemistry</i> , 2015 , 290, 12868-78	5.4	24
44	Hydrogen exchange during cell-free incorporation of deuterated amino acids and an approach to its inhibition. <i>Journal of Biomolecular NMR</i> , 2011 , 51, 467-76	3	24
43	Mitochondrial Cysteine Desulfurase and ISD11 Coexpressed in Escherichia coli Yield Complex Containing Acyl Carrier Protein. <i>ACS Chemical Biology</i> , 2017 , 12, 918-921	4.9	23
42	Metabolic Reprogramming by 3-Iodothyronamine (T1AM): A New Perspective to Reverse Obesity through Co-Regulation of Sirtuin 4 and 6 Expression. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	23
41	New Multitarget Approaches in the War Against Glioblastoma: A Mini-Perspective. <i>Frontiers in Pharmacology</i> , 2018 , 9, 874	5.6	22

40	Spin System Modeling of Nuclear Magnetic Resonance Spectra for Applications in Metabolomics and Small Molecule Screening. <i>Analytical Chemistry</i> , 2017 , 89, 12201-12208	7.8	19
39	Broadening the functionality of a J-protein/Hsp70 molecular chaperone system. <i>PLoS Genetics</i> , 2017 , 13, e1007084	6	19
38	NMR reveals a dynamic allosteric pathway in thrombin. <i>Scientific Reports</i> , 2017 , 7, 39575	4.9	18
37	Mechanism of Histone H3K4me3 Recognition by the Plant Homeodomain of Inhibitor of Growth 3. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18326-41	5.4	18
36	NMR Metabolomics Show Evidence for Mitochondrial Oxidative Stress in a Mouse Model of Polycystic Ovary Syndrome. <i>Journal of Proteome Research</i> , 2015 , 14, 3284-91	5.6	17
35	Applications of Parametrized NMR Spin Systems of Small Molecules. <i>Analytical Chemistry</i> , 2018 , 90, 10646-10649	4.6	15
34	Robust, integrated computational control of NMR experiments to achieve optimal assignment by ADAPT-NMR. <i>PLoS ONE</i> , 2012 , 7, e33173	3.7	15
33	Carbonyl carbon label selective (CCLS) 1H-15N HSQC experiment for improved detection of backbone 13C-15N cross peaks in larger proteins. <i>Journal of Biomolecular NMR</i> , 2007 , 39, 177-85	3	14
32	Novel diagnostics of metabolic dysfunction detected in breath and plasma by selective isotope-assisted labeling. <i>Metabolism: Clinical and Experimental</i> , 2012 , 61, 1162-70	12.7	13
31	Backbone NMR resonance assignment of the catalytic subunit of cAMP-dependent protein kinase A in complex with AMP-PNP. <i>Biomolecular NMR Assignments</i> , 2009 , 3, 115-7	0.7	13
30	Structure-function relationships of brazzein variants with altered interactions with the human sweet taste receptor. <i>Protein Science</i> , 2016 , 25, 711-9	6.3	13
29	Role of protein dynamics in ion selectivity and allosteric coupling in the NaK channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15366-71	11.5	12
28	ISCU(M108I) and ISCU(D39V) Differ from Wild-Type ISCU in Their Failure To Form Cysteine Desulfurase Complexes Containing Both Frataxin and Ferredoxin. <i>Biochemistry</i> , 2018 , 57, 1491-1500	3.2	12
27	Fast automated protein NMR data collection and assignment by ADAPT-NMR on Bruker spectrometers. <i>Journal of Magnetic Resonance</i> , 2013 , 236, 83-8	3	12
26	Simultaneous detection and deconvolution of congested NMR spectra containing three isotopically labeled species. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7818-9	16.4	12
25	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24258-24268	11.5	12
24	NMR-Based Identification of Metabolites in Polar and Non-Polar Extracts of Avian Liver. <i>Metabolites</i> , 2017 , 7,	5.6	9
23	One-sample approach to determine the relative orientations of proteins in ternary and binary complexes from residual dipolar coupling measurements. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14138-9	16.4	9

22	Probing Protein-Protein Interactions Using Asymmetric Labeling and Carbonyl-Carbon Selective Heteronuclear NMR Spectroscopy. <i>Molecules</i> , 2018 , 23,	4.8	9
21	Probabilistic validation of protein NMR chemical shift assignments. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 17-25	3	8
20	Solution structure of the 2A protease from a common cold agent, human rhinovirus C2, strain W12. <i>PLoS ONE</i> , 2014 , 9, e97198	3.7	7
19	Solution structure of human myeloid-derived growth factor suggests a conserved function in the endoplasmic reticulum. <i>Nature Communications</i> , 2019 , 10, 5612	17.4	7
18	Multimodal Ligand Binding Studies of Human and Mouse G-Coupled Taste Receptors to Correlate Their Species-Specific Sweetness Tasting Properties. <i>Molecules</i> , 2018 , 23,	4.8	6
17	Nitrogen recycling via gut symbionts increases in ground squirrels over the hibernation season.. <i>Science</i> , 2022 , 375, 460-463	33.3	5
16	Structural Insights into the Recognition of Mono- and Diacetylated Histones by the ATAD2B Bromodomain. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 12799-12813	8.3	5
15	A conformational switch driven by phosphorylation regulates the activity of the evolutionarily conserved SNARE Ykt6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
14	NMRFAM-SDF: a protein structure determination framework. <i>Journal of Biomolecular NMR</i> , 2015 , 62, 481-95	3	4
13	Dynamic motions of the HIV-1 frameshift site RNA. <i>Biophysical Journal</i> , 2015 , 108, 644-54	2.9	4
12	Expanded DNA and RNA Trinucleotide Repeats in Myotonic Dystrophy Type 1 Select Their Own Multitarget, Sequence-Selective Inhibitors. <i>Biochemistry</i> , 2020 , 59, 3463-3472	3.2	4
11	Structure and evolution of the 4-helix bundle domain of Zuotin, a J-domain protein co-chaperone of Hsp70. <i>PLoS ONE</i> , 2019 , 14, e0217098	3.7	2
10	Assignments of RNase A by ADAPT-NMR and enhancer. <i>Biomolecular NMR Assignments</i> , 2015 , 9, 81-8	0.7	2
9	Solution Structural Studies of GTP:Adenosylcobinamide-Phosphateguanylyl Transferase (CobY) from <i>Methanocaldococcus jannaschii</i> . <i>PLoS ONE</i> , 2015 , 10, e0141297	3.7	2
8	Backbone resonance assignments and secondary structure of Ebola nucleoprotein 600-739 construct. <i>Biomolecular NMR Assignments</i> , 2019 , 13, 315-319	0.7	1
7	Fragment screening targeting Ebola virus nucleoprotein C-terminal domain identifies lead candidates. <i>Antiviral Research</i> , 2020 , 180, 104822	10.8	1
6	Serine protease dynamics revealed by NMR analysis of the thrombin-thrombomodulin complex. <i>Scientific Reports</i> , 2021 , 11, 9354	4.9	1
5	Solution NMR Determination of the CDHR3 Rhinovirus-C Binding Domain, EC1. <i>Viruses</i> , 2021 , 13,	6.2	1

4	At sixes and sevens: cryptic domain in the metal binding chain of the human copper transporter ATP7A. <i>Biophysical Journal</i> , 2021 , 120, 4600-4607	2.9	1
3	Backbone and sidechain resonance assignments and secondary structure of Scc4 from <i>Chlamydia trachomatis</i> . <i>Biomolecular NMR Assignments</i> , 2020 , 14, 301-307	0.7	0
2	Nanodroplet Oligomers (NanDOs) of A β 0. <i>Biochemistry</i> , 2021 , 60, 2691-2703	3.2	0
1	NMR H, C, N backbone resonance assignments of the T35S and oncogenic T35S/Q61L mutants of human KRAS4b in the active, GppNHp-bound conformation. <i>Biomolecular NMR Assignments</i> , 2021 , 1	0.7	