Marco Tonelli

List of Publications by Year
in descending order

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59 papers	2,911 citations	304368 22 h-index	182168 51 g-index
59 all docs	59 docs citations	59 times ranked	4776 citing authors

#	Article	IF	Citations
1	NMRFAM-SPARKY: enhanced software for biomolecular NMR spectroscopy. Bioinformatics, 2015, 31, 1325-1327.	1.8	1,507
2	Dynamics connect substrate recognition to catalysis in protein kinase A. Nature Chemical Biology, 2010, 6, 821-828.	3.9	182
3	Human Mitochondrial Ferredoxin 1 (FDX1) and Ferredoxin 2 (FDX2) Both Bind Cysteine Desulfurase and Donate Electrons for Ironâ€“Sulfur Cluster Biosynthesis. Biochemistry, 2017, 56, 487-499.	1.2	89
4	Molecular recognition of RAS/RAF complex at the membrane: Role of RAF cysteine-rich domain. Scientific Reports, 2018, 8, 8461.	1.6	71
5	Direct NMR Detection of the Binding of Functional Ligands to the Human Sweet Receptor, a Heterodimeric Family 3 GPCR. Journal of the American Chemical Society, 2008, 130, 7212-7213.	6.6	70
6	Interactions of iron-bound frataxin with ISCU and ferredoxin on the cysteine desulfurase complex leading to Fe-S cluster assembly. Journal of Inorganic Biochemistry, 2018, 183, 107-116.	1.5	51
7	I-PINE web server: an integrative probabilistic NMR assignment system for proteins. Journal of Biomolecular NMR, 2019, 73, 213-222.	1.6	50
8	The Dynamic Structure of Thrombin in Solution. Biophysical Journal, 2012, 103, 79-88.	0.2	47
9	Integrative NMR for biomolecular research. Journal of Biomolecular NMR, 2016, 64, 307-332.	1.6	47
10	The metal chaperone Atox1 regulates the activity of the human copper transporter ATP7B by modulating domain dynamics. Journal of Biological Chemistry, 2017, 292, 18169-18177.	1.6	45
11	KRAS Prenylation Is Required for Bivalent Binding with Calmodulin in a Nucleotide-Independent Manner. Biophysical Journal, 2019, 116, 1049-1063.	0.2	41
12	Nitrogen recycling via gut symbionts increases in ground squirrels over the hibernation season. Science, 2022, 375, 460-463.	6.0	36
13	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24258-24268.	3.3	34
14	Interactions between Metal-binding Domains Modulate Intracellular Targeting of Cu(I)-ATPase ATP7B, as Revealed by Nanobody Binding. Journal of Biological Chemistry, 2014, 289, 32682-32693.	1.6	33
15	Mitochondrial Cysteine Desulfurase and ISD11 Coexpressed in Escherichia coli Yield Complex Containing Acyl Carrier Protein. ACS Chemical Biology, 2017, 12, 918-921.	1.6	32
16	Defining a Two-pronged Structural Model for PB1 (Phox/Bem1p) Domain Interaction in Plant Auxin Responses. Journal of Biological Chemistry, 2015, 290, 12868-12878.	1.6	31
17	Spin System Modeling of Nuclear Magnetic Resonance Spectra for Applications in Metabolomics and Small Molecule Screening. Analytical Chemistry, 2017, 89, 12201-12208.	3.2	31
18	New Multitarget Approaches in the War Against Glioblastoma: A Mini-Perspective. Frontiers in Pharmacology, 2018, 9, 874.	1.6	31

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19	Broadening the functionality of a J-protein/Hsp70 molecular chaperone system. PLoS Genetics, 2017, 13, e1007084.	1.5	30
20	Metabolic Reprogramming by 3-Iodothyronamine (T1AM): A New Perspective to Reverse Obesity through Co-Regulation of Sirtuin 4 and 6 Expression. International Journal of Molecular Sciences, 2018, 19, 1535.	1.8	29
21	Hydrogen exchange during cell-free incorporation of deuterated amino acids and an approach to its inhibition. Journal of Biomolecular NMR, 2011, 51, 467-476.	1.6	26
22	Mechanism of Histone H3K4me3 Recognition by the Plant Homeodomain of Inhibitor of Growth 3. Journal of Biological Chemistry, 2016, 291, 18326-18341.	1.6	26
23	Applications of Parametrized NMR Spin Systems of Small Molecules. Analytical Chemistry, 2018, 90, 10646-10649.	3.2	23
24	NMR Metabolomics Show Evidence for Mitochondrial Oxidative Stress in a Mouse Model of Polycystic Ovary Syndrome. Journal of Proteome Research, 2015, 14, 3284-3291.	1.8	22
25	NMR reveals a dynamic allosteric pathway in thrombin. Scientific Reports, 2017, 7, 39575.	1.6	21
26	Structureâ€function relationships of brazzein variants with altered interactions with the human sweet taste receptor. Protein Science, 2016, 25, 711-719.	3.1	19
27	Novel diagnostics of metabolic dysfunction detected in breath and plasma by selective isotope-assisted labeling. Metabolism: Clinical and Experimental, 2012, 61, 1162-1170.	1.5	18
28	Robust, Integrated Computational Control of NMR Experiments to Achieve Optimal Assignment by ADAPT-NMR. PLoS ONE, 2012, 7, e33173.	1.1	17
29	Role of protein dynamics in ion selectivity and allosteric coupling in the NaK channel. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15366-15371.	3.3	17
30	NMR-Based Identification of Metabolites in Polar and Non-Polar Extracts of Avian Liver. Metabolites, 2017, 7, 61.	1.3	17
31	ISCU(M108I) and ISCU(D39V) Differ from Wild-Type ISCU in Their Failure To Form Cysteine Desulfurase Complexes Containing Both Frataxin and Ferredoxin. Biochemistry, 2018, 57, 1491-1500.	1.2	16
32	Solution structure of human myeloid-derived growth factor suggests a conserved function in the endoplasmic reticulum. Nature Communications, 2019, 10, 5612.	5.8	15
33	Structural Insights into the Recognition of Mono- and Diacetylated Histones by the ATAD2B Bromodomain. Journal of Medicinal Chemistry, 2020, 63, 12799-12813.	2.9	15
34	Carbonyl carbon label selective (CCLS) 1Hâ€“15N HSQC experiment for improved detection of backbone 13Câ€“15N cross peaks in larger proteins. Journal of Biomolecular NMR, 2007, 39, 177-185.	1.6	14
35	Fast automated protein NMR data collection and assignment by ADAPT-NMR on Bruker spectrometers. Journal of Magnetic Resonance, 2013, 236, 83-88.	1.2	14
36	Backbone NMR resonance assignment of the catalytic subunit of cAMP-dependent protein kinase A in complex with AMP-PNP. Biomolecular NMR Assignments, 2009, 3, 115-117.	0.4	13

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37	Simultaneous Detection and Deconvolution of Congested NMR Spectra Containing Three Isotopically Labeled Species. Journal of the American Chemical Society, 2008, 130, 7818-7819.	6.6	12
38	A conformational switch driven by phosphorylation regulates the activity of the evolutionarily conserved SNARE Ykt6. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
39	Probabilistic validation of protein NMR chemical shift assignments. Journal of Biomolecular NMR, 2016, 64, 17-25.	1.6	11
40	One-Sample Approach to Determine the Relative Orientations of Proteins in Ternary and Binary Complexes from Residual Dipolar Coupling Measurements. Journal of the American Chemical Society, 2009, 131, 14138-14139.	6.6	9
41	Multimodal Ligand Binding Studies of Human and Mouse G-Coupled Taste Receptors to Correlate Their Species-Specific Sweetness Tasting Properties. Molecules, 2018, 23, 2531.	1.7	9
42	Probing Protein-Protein Interactions Using Asymmetric Labeling and Carbonyl-Carbon Selective Heteronuclear NMR Spectroscopy. Molecules, 2018, 23, 1937.	1.7	9
43	Exploring CRD mobility during RAS/RAF engagement at the membrane. Biophysical Journal, 2022, 121, 3630-3650.	0.2	9
44	Structure and evolution of the 4-helix bundle domain of Zuotin, a J-domain protein co-chaperone of Hsp70. PLoS ONE, 2019, 14, e0217098.	1.1	8
45	Expanded DNA and RNA Trinucleotide Repeats in Myotonic Dystrophy Type 1 Select Their Own Multitarget, Sequence-Selective Inhibitors. Biochemistry, 2020, 59, 3463-3472.	1.2	8
46	Solution Structure of the 2A Protease from a Common Cold Agent, Human Rhinovirus C2, Strain W12. PLoS ONE, 2014, 9, e97198.	1.1	7
47	Serine protease dynamics revealed by NMR analysis of the thrombin-thrombomodulin complex. Scientific Reports, 2021, 11, 9354.	1.6	5
48	Dynamic Motions of the HIV-1 Frameshift Site RNA. Biophysical Journal, 2015, 108, 644-654.	0.2	4
49	NMRFAM-SDF: a protein structure determination framework. Journal of Biomolecular NMR, 2015, 62, 481-495.	1.6	4
50	Nanodroplet Oligomers (NanDOs) of Aî²40. Biochemistry, 2021, 60, 2691-2703.	1.2	4
51	Solution Structural Studies of GTP:Adenosylcobinamide-Phosphateguanylyl Transferase (CobY) from Methanocaldococcus jannaschii. PLoS ONE, 2015, 10, e0141297.	1.1	3
52	Assignments of RNase A by ADAPT-NMR and enhancer. Biomolecular NMR Assignments, 2015, 9, 81-88.	0.4	3
53	Backbone resonance assignments and secondary structure of Ebola nucleoprotein 600â€“739 construct. Biomolecular NMR Assignments, 2019, 13, 315-319.	0.4	3
54	Fragment screening targeting Ebola virus nucleoprotein C-terminal domain identifies lead candidates. Antiviral Research, 2020, 180, 104822.	1.9	3

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55	At sixes and sevens: cryptic domain in the metal binding chain of the human copper transporter ATP7A. Biophysical Journal, 2021, 120, 4600-4607.	0.2	3
56	Solution structure and dynamics of the mitochondrialâ€targeted GTPase â€activating protein (GAP) VopE by an integrated NMR / SAXS approach. Protein Science, 2022, , .	3.1	2
57	Backbone and sidechain resonance assignments and secondary structure of Scc4 from Chlamydia trachomatis. Biomolecular NMR Assignments, 2020, 14, 301-307.	0.4	1
58	Solution NMR Determination of the CDHR3 Rhinovirus-C Binding Domain, EC1. Viruses, 2021, 13, 159.	1.5	1
59	NMR 1H, 13C, 15N backbone resonance assignments of the T35S and oncogenic T35S/Q61L mutants of human KRAS4b in the active, GppNHp-bound conformation. Biomolecular NMR Assignments, 2022, 16, 1-8.	0.4	1