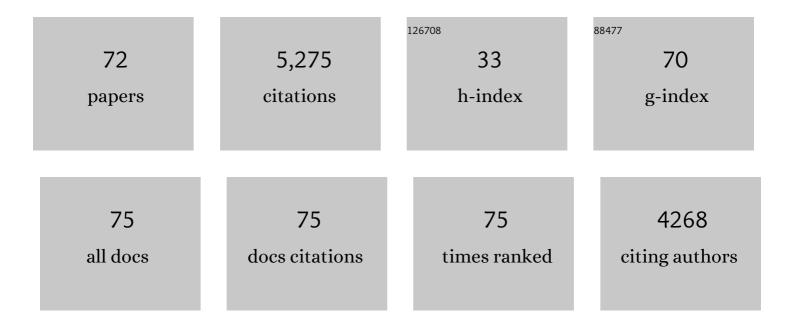
J Patrick Loria

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4705569/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Nuclear Magnetic Resonance Methods for Quantifying Microsecond-to-Millisecond Motions in Biological Macromolecules. Methods in Enzymology, 2001, 339, 204-238.	0.4	823
2	A Relaxation-Compensated Carrâ´'Purcellâ´'Meiboomâ^'Gill Sequence for Characterizing Chemical Exchange by NMR Spectroscopy. Journal of the American Chemical Society, 1999, 121, 2331-2332.	6.6	624
3	The Static Magnetic Field Dependence of Chemical Exchange Linebroadening Defines the NMR Chemical Shift Time Scale. Journal of the American Chemical Society, 2000, 122, 2867-2877.	6.6	316
4	A TROSY CPMG sequence for characterizing chemical exchange in large proteins. Journal of Biomolecular NMR, 1999, 15, 151-155.	1.6	217
5	FAST-Modelfree: a program for rapid automated analysis of solution NMR spin-relaxation data. Journal of Biomolecular NMR, 2003, 26, 203-213.	1.6	194
6	Allosteric pathways in imidazole glycerol phosphate synthase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1428-36.	3.3	192
7	Helix Stabilization Precedes Aqueous and Bilayer-Catalyzed Fiber Formation in Islet Amyloid Polypeptide. Journal of Molecular Biology, 2009, 393, 383-396.	2.0	170
8	Conformational Motions Regulate Phosphoryl Transfer in Related Protein Tyrosine Phosphatases. Science, 2013, 341, 899-903.	6.0	168
9	Characterization of Enzyme Motions by Solution NMR Relaxation Dispersion. Accounts of Chemical Research, 2008, 41, 214-221.	7.6	155
10	Conservation of μsâ^'ms Enzyme Motions in the Apo- and Substrate-Mimicked State. Journal of the American Chemical Society, 2005, 127, 9167-9176.	6.6	146
11	The mechanism of rate-limiting motions in enzyme function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11981-11986.	3.3	146
12	Eigenvector centrality for characterization of protein allosteric pathways. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12201-E12208.	3.3	145
13	Evidence for Flexibility in the Function of Ribonuclease Aâ€. Biochemistry, 2002, 41, 6072-6081.	1.2	123
14	Solution NMR Spectroscopy for the Study of Enzyme Allostery. Chemical Reviews, 2016, 116, 6323-6369.	23.0	106
15	The Flexibility of a Distant Loop Modulates Active Site Motion and Product Release in Ribonuclease A. Biochemistry, 2009, 48, 7160-7168.	1.2	91
16	Faithful estimation of dynamics parameters from CPMG relaxation dispersion measurements. Journal of Magnetic Resonance, 2006, 180, 93-104.	1.2	78
17	Dynamic Requirements for a Functional Protein Hinge. Journal of Molecular Biology, 2007, 368, 131-149.	2.0	77
18	Multiple Time Scale Backbone Dynamics of Homologous Thermophilic and Mesophilic Ribonuclease HI Enzymes. Journal of Molecular Biology, 2004, 339, 855-871.	2.0	76

J PATRICK LORIA

#	Article	IF	CITATIONS
19	Protein Dynamics from Solution NMR. Cell Biochemistry and Biophysics, 2003, 37, 187-212.	0.9	73
20	NMR insights into protein allostery. Archives of Biochemistry and Biophysics, 2012, 519, 223-231.	1.4	73
21	Enzyme Dynamics along the Reaction Coordinate:  Critical Role of a Conserved Residue. Biochemistry, 2006, 45, 2636-2647.	1.2	72
22	205Tl NMR Methods for the Characterization of Monovalent Cation Binding to Nucleic Acids. Journal of the American Chemical Society, 2005, 127, 16723-16732.	6.6	69
23	Nanometer Propagation of Millisecond Motions in V-Type Allostery. Structure, 2010, 18, 1596-1607.	1.6	67
24	Allostery in enzyme catalysis. Current Opinion in Structural Biology, 2017, 47, 123-130.	2.6	60
25	Altering the allosteric pathway in IGPS suppresses millisecond motions and catalytic activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3414-E3423.	3.3	55
26	Crystallization and characterization of the thallium form of the Oxytricha nova G-quadruplex. Nucleic Acids Research, 2006, 34, 4506-4514.	6.5	49
27	Leveraging Reciprocity to Identify and Characterize Unknown Allosteric Sites in Protein Tyrosine Phosphatases. Journal of Molecular Biology, 2017, 429, 2360-2372.	2.0	47
28	Temperature Dependence of the Backbone Dynamics of Ribonuclease A in the Ground State and Bound to the Inhibitor 5'-Phosphothymidine (3'-5')Pyrophosphate Adenosine 3'-Phosphateâ€. Biochemistry, 2 42, 5279-5291.	0032	43
29	Using NMR spectroscopy to elucidate the role of molecular motions in enzyme function. Progress in Nuclear Magnetic Resonance Spectroscopy, 2016, 92-93, 1-17.	3.9	42
30	Solution NMR and Computational Methods for Understanding Protein Allostery. Journal of Physical Chemistry B, 2013, 117, 3063-3073.	1.2	40
31	Uncovering the Molecular Interactions in the Catalytic Loop That Modulate the Conformational Dynamics in Protein Tyrosine Phosphatase 1B. Journal of the American Chemical Society, 2019, 141, 12634-12647.	6.6	40
32	The effects of cosolutes on protein dynamics: The reversal of denaturant-induced protein fluctuations by trimethylamineN-oxide. Protein Science, 2007, 16, 20-29.	3.1	38
33	Dissecting Dynamic Allosteric Pathways Using Chemically Related Small-Molecule Activators. Structure, 2016, 24, 1155-1166.	1.6	38
34	Characterization of the Transition State of Functional Enzyme Dynamics. Journal of the American Chemical Society, 2006, 128, 7724-7725.	6.6	37
35	Value of a Hydrogen Bond in Triosephosphate Isomerase Loop Motion. Biochemistry, 2007, 46, 6001-6010.	1.2	35
36	Allosteric Communication Disrupted by a Small Molecule Binding to the Imidazole Glycerol Phosphate Synthase Protein–Protein Interface. Biochemistry, 2016, 55, 6484-6494.	1.2	33

J PATRICK LORIA

#	Article	IF	CITATIONS
37	Nanosecond Dynamics Regulate the MIFâ€Induced Activity of CD74. Angewandte Chemie - International Edition, 2018, 57, 7116-7119.	7.2	32
38	Alteration of Hydrogen Bonding in the Vicinity of Histidine 48 Disrupts Millisecond Motions in RNase A. Biochemistry, 2011, 50, 1723-1730.	1.2	31
39	Millisecond dynamics in the allosteric enzyme imidazole glycerol phosphate synthase (IGPS) from Thermotoga maritima. Journal of Biomolecular NMR, 2009, 45, 73-84.	1.6	30
40	Reengineering Rate-Limiting, Millisecond Enzyme Motions by Introduction of an Unnatural Amino Acid. Biophysical Journal, 2011, 101, 411-420.	0.2	28
41	Off-Resonance TROSY (R1Ïâ ``R1) for Quantitation of Fast Exchange Processes in Large Proteins. Journal of the American Chemical Society, 2003, 125, 12064-12065.	6.6	27
42	Glutamine Hydrolysis by Imidazole Glycerol Phosphate Synthase Displays Temperature Dependent Allosteric Activation. Frontiers in Molecular Biosciences, 2018, 5, 4.	1.6	25
43	Measurement of Intermediate Exchange Phenomena. , 2004, 278, 185-232.		24
44	Accelerating multidimensional NMR and MRI experiments using iterated maps. Journal of Magnetic Resonance, 2013, 237, 100-109.	1.2	23
45	Enzyme Architecture: The Effect of Replacement and Deletion Mutations of Loop 6 on Catalysis by Triosephosphate Isomerase. Biochemistry, 2014, 53, 3486-3501.	1.2	23
46	Substrate-Dependent Millisecond Domain Motions in DNA Polymerase β. Journal of Molecular Biology, 2012, 419, 171-182.	2.0	22
47	A deubiquitylase with an unusually high-affinity ubiquitin-binding domain from the scrub typhus pathogen Orientia tsutsugamushi. Nature Communications, 2020, 11, 2343.	5.8	22
48	Solution Structure and Dynamics of LuxU from Vibrio harveyi, a Phosphotransferase Protein Involved in Bacterial Quorum Sensing. Journal of Molecular Biology, 2005, 347, 297-307.	2.0	20
49	A YopH PTP1B Chimera Shows the Importance of the WPD-Loop Sequence to the Activity, Structure, and Dynamics of Protein Tyrosine Phosphatases. Biochemistry, 2018, 57, 5315-5326.	1.2	20
50	Phosphorylation of a Human Microprotein Promotes Dissociation of Biomolecular Condensates. Journal of the American Chemical Society, 2021, 143, 12675-12687.	6.6	20
51	What's in Your Buffer? Solute Altered Millisecond Motions Detected by Solution NMR. Biochemistry, 2013, 52, 6548-6558.	1.2	18
52	Characterization of Protein Tyrosine Phosphatase 1B Inhibition by Chlorogenic Acid and Cichoric Acid. Biochemistry, 2017, 56, 96-106.	1.2	18
53	The crystal structure of ribonuclease A in complex with thymidineâ€3′â€monophosphate provides further insight into ligand binding. Proteins: Structure, Function and Bioinformatics, 2010, 78, 2459-2468.	1.5	16
54	MoD-QM/MM Structural Refinement Method: Characterization of Hydrogen Bonding in the <i>Oxytricha nova</i> G-Quadruplex. Journal of Chemical Theory and Computation, 2014, 10, 5125-5135.	2.3	16

J PATRICK LORIA

#	Article	IF	CITATIONS
55	Induced Fit in the Selection of Correct versus Incorrect Nucleotides by DNA Polymerase $\hat{l}^2.$ Biochemistry, 2016, 55, 382-395.	1.2	16
56	1H, 15N and 13C resonance assignment of imidazole glycerol phosphate (IGP) synthase protein HisF from ThermotogaÂmaritima. Biomolecular NMR Assignments, 2008, 2, 219-221.	0.4	12
57	Exploring protein structure and dynamics through a projectâ€oriented biochemistry laboratory module. Biochemistry and Molecular Biology Education, 2017, 45, 403-410.	0.5	10
58	Complexity of Protein Energy Landscapes Studied by Solution NMR Relaxation Dispersion Experiments. Journal of Physical Chemistry B, 2015, 119, 3743-3754.	1.2	9
59	I260Q DNA polymerase β highlights precatalytic conformational rearrangements critical for fidelity. Nucleic Acids Research, 2018, 46, 10740-10756.	6.5	8
60	Monitoring Molecular Interactions by NMR. Methods in Molecular Biology, 2009, 490, 115-134.	0.4	8
61	MptpA Kinetics Enhanced by Allosteric Control of an Active Conformation. Journal of Molecular Biology, 2022, 434, 167540.	2.0	7
62	Accelerating 2D NMR relaxation dispersion experiments using iterated maps. Journal of Biomolecular NMR, 2019, 73, 561-576.	1.6	5
63	Allosteric Impact of the Variable Insert Loop in <i>Vaccinia</i> H1-Related (VHR) Phosphatase. Biochemistry, 2020, 59, 1896-1908.	1.2	5
64	Significant Loop Motions in the SsoPTP Protein Tyrosine Phosphatase Allow for Dual General Acid Functionality. Biochemistry, 2021, 60, 2888-2901.	1.2	5
65	1H, 15N, and 13C backbone resonance assignments for the yersinia protein tyrosine phosphatase YopH. Biomolecular NMR Assignments, 2014, 8, 387-389.	0.4	4
66	Reaching the sparse-sampling limit for reconstructing a single peak in a 2D NMR spectrum using iterated maps. Journal of Biomolecular NMR, 2019, 73, 545-560.	1.6	3
67	Allosteric Control of Enzyme Activity: From Ancient Origins to Recent Gene-Editing Technologies. Biochemistry, 2020, 59, 1711-1712.	1.2	3
68	Role of a high centrality residue in protein dynamics and thermal stability. Journal of Structural Biology, 2021, 213, 107773.	1.3	3
69	Nanosecond Dynamics Regulate the MIFâ€Induced Activity of CD74. Angewandte Chemie, 2018, 130, 7234-7237.	1.6	2
70	Letter to the Editor:1H,15N, and13C chemical shift assignments of the Vibrio harveyi histidine phosphotransferase protein LuxU. Journal of Biomolecular NMR, 2004, 29, 551-552.	1.6	1
71	Movement and Specificity in a Modular DNA Binding Protein. Structure, 2015, 23, 973-974.	1.6	1
72	A simple method to determine changes in the affinity between HisF and HisH in the Imidazole Glycerol Phosphate Synthase heterodimer. PLoS ONE, 2022, 17, e0267536.	1.1	0