## Martin Tollinger

List of Publications by Year in descending order

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218592 206029 2,592 73 26 48 citations g-index h-index papers 79 79 79 3047 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Slow Dynamics in Folded and Unfolded States of an SH3 Domain. Journal of the American Chemical Society, 2001, 123, 11341-11352.	6.6	454
2	Ice nucleation by water-soluble macromolecules. Atmospheric Chemistry and Physics, 2015, 15, 4077-4091.	1.9	198
3	Direct Observation of the Dynamic Process Underlying Allosteric Signal Transmission. Journal of the American Chemical Society, 2009, 131, 3063-3068.	6.6	111
4	Electrostatic Stabilization of a Native Protein Structure in the Gas Phase. Angewandte Chemie - International Edition, 2011, 50, 873-877.	7.2	111
5	Site-specific contributions to the pH dependence of protein stability. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4545-4550.	3.3	86
6	Synthesis of (6- <sup>13</sup> C)Pyrimidine Nucleotides as Spin-Labels for RNA Dynamics. Journal of the American Chemical Society, 2012, 134, 7558-7569.	6.6	73
7	How a protein prepares for B12 binding: structure and dynamics of the B12-binding subunit of glutamate mutase from Clostridium tetanomorphum. Structure, 1998, 6, 1021-1033.	1.6	72
8	Fold stability during endolysosomal acidification is a key factor for allergenicity and immunogenicity of the major birch pollen allergen. Journal of Allergy and Clinical Immunology, 2016, 137, 1525-1534.	1.5	69
9	Measurement of Side-Chain Carboxyl pKaValues of Glutamate and Aspartate Residues in an Unfolded Protein by Multinuclear NMR Spectroscopy. Journal of the American Chemical Society, 2002, 124, 5714-5717.	6.6	68
10	Calculation of Residual Dipolar Couplings from Disordered State Ensembles Using Local Alignment. Journal of the American Chemical Society, 2008, 130, 7804-7805.	6.6	67
11	Cooperative Interactions and a Non-native Buried Trp in the Unfolded State of an SH3 Domain. Journal of Molecular Biology, 2002, 322, 163-178.	2.0	64
12	Allosteric Communication in the KIX Domain Proceeds through Dynamic Repacking of the Hydrophobic Core. ACS Chemical Biology, 2013, 8, 1600-1610.	1.6	62
13	Site-Resolved Measurement of Microsecond-to-Millisecond Conformational-Exchange Processes in Proteins by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2012, 134, 14800-14807.	6.6	61
14	NMR Methods to Study Dynamic Allostery. PLoS Computational Biology, 2016, 12, e1004620.	1.5	61
15	The allosteric communication pathways in KIX domain of CBP. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14237-14242.	3.3	57
16	Direct structure refinement of high molecular weight proteins against residual dipolar couplings and carbonyl chemical shift changes upon alignment: an application to maltose binding protein. Journal of Biomolecular NMR, 2001, 21, 31-40.	1.6	50
17	Structure of the Major Apple Allergen MalÂdÂ1. Journal of Agricultural and Food Chemistry, 2017, 65, 1606-1612.	2.4	50
18	Probing RNA dynamics via longitudinal exchange and CPMG relaxation dispersion NMR spectroscopy using a sensitive 13C-methyl label. Nucleic Acids Research, 2011, 39, 4340-4351.	6.5	49

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19	Excited States of Nucleic Acids Probed by Proton Relaxation Dispersion NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 12008-12012.	7.2	48
20	relax: the analysis of biomolecular kinetics and thermodynamics using NMR relaxation dispersion data. Bioinformatics, 2014, 30, 2219-2220.	1.8	45
21	Structural Comparison of the Unstable drkN SH3 Domain and a Stable Mutantâ€,‡. Biochemistry, 2005, 44, 15550-15560.	1.2	39
22	Ligand Binding Modulates the Structural Dynamics and Compactness of the Major Birch Pollen Allergen. Biophysical Journal, 2014, 107, 2972-2981.	0.2	35
23	Folding of the KIX Domain: Characterization of the Equilibrium Analog of a Folding Intermediate using 15N/13C Relaxation Dispersion and Fast 1H/2H Amide Exchange NMR Spectroscopy. Journal of Molecular Biology, 2008, 380, 726-741.	2.0	34
24	The B12-Binding Subunit of Glutamate Mutase from Clostridium tetanomorphum Traps the Nucleotide Moiety of Coenzyme B12. Journal of Molecular Biology, 2001, 309, 777-791.	2.0	33
25	An Isolated Helix Persists in a Sparsely Populated Form of KIX under Native Conditions. Biochemistry, 2006, 45, 8885-8893.	1.2	32
26	A drug library screen identifies Carbenoxolone as novel FOXO inhibitor that overcomes FOXO3-mediated chemoprotection in high-stage neuroblastoma. Oncogene, 2020, 39, 1080-1097.	2.6	31
27	Ligandâ€Detected Relaxation Dispersion NMR Spectroscopy: Dynamics of preQ <sub>1</sub> –RNA Binding. Angewandte Chemie - International Edition, 2015, 54, 560-563.	7.2	28
28	An efficient method for the preparation of methylcobalamin, nature's organometallic methyl transfer catalyst. Journal of Molecular Catalysis A, 1997, 116, 147-155.	4.8	27
29	Measurement of Ligand–Target Residence Times by <sup>1</sup> H Relaxation Dispersion NMR Spectroscopy. Journal of Medicinal Chemistry, 2016, 59, 10788-10793.	2.9	24
30	Studying sparsely populated conformational states in RNA combining chemical synthesis and solution NMR spectroscopy. Methods, 2018, 148, 39-47.	1.9	23
31	The Structure of Methylcob(III)alamin in Aqueous Solution - A Water Molecule as Structuring Element of the Nucleotide Loop. Helvetica Chimica Acta, 1999, 82, 1596-1609.	1.0	21
32	Conformational Flexibility Differentiates Naturally Occurring Bet $\nu$ 1 Isoforms. International Journal of Molecular Sciences, 2017, 18, 1192.	1.8	18
33	5â€Oxyacetic Acid Modification Destabilizes Double Helical Stem Structures and Favors Anionic Watson–Crick like cmo <sup>5</sup> Uâ€G Base Pairs. Chemistry - A European Journal, 2018, 24, 18903-18906.	1.7	18
34	Electrochemical Synthesis and Structure Analysis of Neocoenzyme B12 - An Epimer of Coenzyme B12 with a Remarkably Flexible Organometallic Group. Helvetica Chimica Acta, 1999, 82, 848-869.	1.0	16
35	Measuring pKaValues in Protein Folding Transition State Ensembles by NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 8904-8905.	6.6	16
36	Longitudinal exchange: an alternative strategy towards quantification of dynamics parameters in ZZ exchange spectroscopy. Journal of Biomolecular NMR, 2011, 51, 123-129.	1.6	16

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37	Allergenâ€specific immunotherapy with apples: selected cultivars could be a promising tool for birch pollen allergy. Journal of the European Academy of Dermatology and Venereology, 2020, 34, 1286-1292.	1.3	16
38	NMR Techniques to Study Hydrogen Bondingin Aqueous Solution. Monatshefte Fýr Chemie, 1999, 130, 961-982.	0.9	15
39	Mapping the ligand binding site at protein side-chains in protein-ligand complexes through NOE difference spectroscopy. Journal of Biomolecular NMR, 2001, 20, 195-202.	1.6	15
40	A kinetic study of domain swapping of Protein L. Physical Chemistry Chemical Physics, 2014, 16, 6383.	1.3	15
41	Synthesis and incorporation of 13C-labeled DNA building blocks to probe structural dynamics of DNA by NMR. Nucleic Acids Research, 2017, 45, 9178-9192.	6.5	14
42	Inverse relation between structural flexibility and IgE reactivity of Cor a 1 hazelnut allergens. Scientific Reports, 2021, 11, 4173.	1.6	14
43	Autocorrelation Analysis of NOESY Data Provides Residue Compactness for Folded and Unfolded Proteins. Journal of the American Chemical Society, 2009, 131, 6038-6039.	6.6	13
44	Heteronuclear relaxation in time-dependent spin systems: (15)N-T1 (rho) dispersion during adiabatic fast passage. Journal of Biomolecular NMR, 1999, 13, 213-221.	1.6	11
45	NMR resonance assignments of the major apple allergen Mal d $1.\mathrm{Biomolecular}$ NMR Assignments, 2016, 10, 287-290.	0.4	10
46	Branch site bulge conformations in domain 6 determine functional sugar puckers in group II intron splicing. Nucleic Acids Research, 2019, 47, 11430-11440.	6.5	10
47	pH-Dependent Protonation of the Phl p 6 Pollen Allergen Studied by NMR and cpH-aMD. Journal of Chemical Theory and Computation, 2019, 15, 5716-5726.	2.3	10
48	Oral birch pollen immunotherapy with apples: Results of a phase II clinical pilot study. Immunity, Inflammation and Disease, 2021, 9, 503-511.	1.3	10
49	Structure and Zeatin Binding of the Peach Allergen <i>Pru p <math>1 &lt; li&gt;</math>. Journal of Agricultural and Food Chemistry, 2021, 69, 8120-8129.</i>	2.4	10
50	A Protein Pre-Organized to Trap the Nucleotide Moiety of Coenzyme B12: Refined Solution Structure of the B12-Binding Subunit of Glutamate Mutase from Clostridium tetanomorphum. ChemBioChem, 2001, 2, 643-655.	1.3	9
51	Microdroplet Mass Spectrometry Enables Extremely Accelerated Pepsin Digestion of Proteins. Journal of the American Society for Mass Spectrometry, 2021, 32, 1841-1845.	1.2	9
52	Characterization of the Hydrodynamic Properties of the Folding Transition State of an SH3 Domain by Magnetization Transfer NMR Spectroscopy. Biochemistry, 2006, 45, 6434-6445.	1.2	8
53	Excited States of Nucleic Acids Probed by Proton Relaxation Dispersion NMR Spectroscopy. Angewandte Chemie, 2016, 128, 12187-12191.	1.6	8
54	In silico Design of Phl p 6 Variants With Altered Fold-Stability Significantly Impacts Antigen Processing, Immunogenicity and Immune Polarization. Frontiers in Immunology, 2020, 11, 1824.	2.2	8

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55	Mathematical treatment of adiabatic fast passage pulses for the computation of nuclear spin relaxation rates in proteins with conformational exchange. Journal of Biomolecular NMR, 2011, 51, 35-47.	1.6	7
56	Formic acid reduction and CO <sub>2</sub> activation at Mo <sub>2</sub> C: The important role of surface oxide. Electrochemical Science Advances, 2022, 2, e2100130.	1.2	7
57	Kinetics of DNA Refolding from Longitudinal Exchange NMR Spectroscopy. ChemBioChem, 2011, 12, 2007-2010.	1.3	6
58	Cross-correlated relaxation measurements under adiabatic sweeps: determination of local order in proteins. Journal of Biomolecular NMR, 2015, 63, 353-365.	1.6	6
59	(3î¾,4î¾,5î¾,6î¾,7î¾,11î¾)-3,6-Dihydroxy-8-oxo-9-eremophilene-12-oic Acid, a New Phytotoxin of <i>Alternata</i> ssp. <i>tenuissima</i> lsolates Associated with Fruit Spots on Apple ( <i>Malus</i> ×) Tj ETQq1 1	ria 0. <b>፮</b> 8#314	1 rgBT /Over
60	3D-Printed High-Pressure-Resistant Immobilized Enzyme Microreactor ( $\hat{l}$ /4IMER) for Protein Analysis. Analytical Chemistry, 2022, 94, 8580-8587.	3.2	6
61	Siderocalin Q83 exhibits differential slow dynamics upon ligand binding. Journal of Biomolecular NMR, 2011, 51, 83-88.	1.6	5
62	NMR resonance assignments of the pathogenesis-related peach allergen Pru p 1.0101. Biomolecular NMR Assignments, 2019, 13, 127-130.	0.4	5
63	NMR resonance assignments of the four isoforms of the hazelnut allergen Cor a 1.04. Biomolecular NMR Assignments, 2020, 14, 45-49.	0.4	5
64	Direct methods and residue type specific isotope labeling in NMR structure determination and model-driven sequential assignment. Journal of Biomolecular NMR, 2008, 42, 111-127.	1.6	4
65	NMR resonance assignments of the EVH1 domain of neurofibromin's recruitment factor Spred1. Biomolecular NMR Assignments, 2017, 11, 305-308.	0.4	4
66	NMR resonance assignments of a hypoallergenic isoform of the major birch pollen allergen Bet $\nu$ 1. Biomolecular NMR Assignments, 2017, 11, 231-234.	0.4	4
67	Pathogenic Mutations Associated with Legius Syndrome Modify the Spred1 Surface and Are Involved in Direct Binding to the Ras Inactivator Neurofibromin. Journal of Molecular Biology, 2019, 431, 3889-3899.	2.0	4
68	NMR resonance assignments of the PR-10 allergens Act c 8 and Act d 8 from golden and green kiwifruit. Biomolecular NMR Assignments, 2021, 15, 367-371.	0.4	4
69	NMR resonance assignments of the FinO-domain of the RNA chaperone RocC. Biomolecular NMR Assignments, 2021, 15, 61-64.	0.4	3
70	NMR resonance assignments of the archaeal ribosomal protein L7Ae in the apo form and bound to a 25 nt RNA. Biomolecular NMR Assignments, 2015, 9, 177-180.	0.4	2
71	Cosolute modulation of protein oligomerization reactions in the homeostatic timescale. Biophysical Journal, 2021, 120, 2067-2077.	0.2	2
72	NMR Techniques to Study Hydrogen Bonding in Aqueous Solution. , 1999, , 17-38.		1

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73	Relaxation-Induced Polarization Transfer and the Determination of Methyl Group 13C Chemical Shielding Anisotropy. Journal of Physical Chemistry A, 1999, 103, 5253-5258.	1.1	O