

Koichi Kato

List of Publications by Year in descending order

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329
papers

11,244
citations

31976

53
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51608

86
g-index

346
all docs

346
docs citations

346
times ranked

10476
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamine-free mammalian expression of recombinant glycoproteins with uniform isotope labeling: an application for NMR analysis of pharmaceutically relevant Fc glycoforms of human immunoglobulin G1. <i>Journal of Biomolecular NMR</i> , 2022, 76, 17-22.	2.8	7
2	Biophysical Characterization of Novel DNA Aptamers against K103N/Y181C Double Mutant HIV-1 Reverse Transcriptase. <i>Molecules</i> , 2022, 27, 285.	3.8	2
3	Quantitative Visualization of the Interaction between Complement Component C1 and Immunoglobulin G: The Effect of CH1 Domain Deletion. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2090.	4.1	1
4	The Fab portion of immunoglobulin G has sites in the CL domain that interact with Fc gamma receptor IIIa. <i>MAbs</i> , 2022, 14, 2038531.	5.2	7
5	Overall structure of fully assembled cyanobacterial KaiABC circadian clock complex by an integrated experimental-computational approach. <i>Communications Biology</i> , 2022, 5, 184.	4.4	5
6	Experimental and computational characterization of dynamic biomolecular interaction systems involving glycolipid glycans. <i>Glycoconjugate Journal</i> , 2022, 39, 219-228.	2.7	5
7	OUP accepted manuscript. <i>Glycobiology</i> , 2022, , .	2.5	0
8	Identification of distinct N-glycosylation patterns on extracellular vesicles from small-cell and non-small-cell lung cancer cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101950.	3.4	12
9	Efficient visible/NIR light-driven uncaging of hydroxylated thiazole orange-based caged compounds in aqueous media. <i>Chemical Science</i> , 2022, 13, 7462-7467.	7.4	2
10	Cancer Malignancy Is Correlated with Upregulation of PCYT2-Mediated Glycerol Phosphate Modification of Î±-Dystroglycan. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6662.	4.1	2
11	DMSO-Quenched H/D-Exchange 2D NMR Spectroscopy and Its Applications in Protein Science. <i>Molecules</i> , 2022, 27, 3748.	3.8	5
12	An embeddable molecular code for Lewis X modification through interaction with fucosyltransferase 9. <i>Communications Biology</i> , 2022, 5, .	4.4	2
13	Characterization of New DNA Aptamers for Anti-HIV-1 Reverse Transcriptase. <i>ChemBioChem</i> , 2021, 22, 915-923.	2.6	3
14	Comprehensive characterization of oligosaccharide conformational ensembles with conformer classification by free-energy landscape <i>via</i> reproductive kernel Hilbert space. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9753-9760.	2.8	10
15	Deuteration Aiming for Neutron Scattering. <i>Biophysics and Physicobiology</i> , 2021, 18, 16-27.	1.0	10
16	NMR assignments of the N-glycans of the Fc fragment of mouse immunoglobulin G2b glycoprotein. <i>Biomolecular NMR Assignments</i> , 2021, 15, 187-192.	0.8	4
17	Structural and Functional Roles of the N-Glycans in Therapeutic Antibodies. , 2021, , 534-542.		6
18	A feasibility study of inverse contrast-matching small-angle neutron scattering method combined with size exclusion chromatography using antibody interactions as model systems. <i>Journal of Biochemistry</i> , 2021, 169, 701-708.	1.7	3

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19	Cold Atmospheric Plasma Modification of Amyloid β . International Journal of Molecular Sciences, 2021, 22, 3116.	4.1	3
20	Modification of the pH Dependence of Assembly of Yeast Cargo Receptor Emp47p Coiled-Coil Domains: Computational Design and Experimental Mutagenesis. Journal of Physical Chemistry B, 2021, 125, 2222-2230.	2.6	0
21	Structural Fluctuations of the Human Proteasome β -7 Homo-Tetradecamer Double Ring Imply the Proteasomal β -Ring Assembly Mechanism. International Journal of Molecular Sciences, 2021, 22, 4519.	4.1	1
22	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. Angewandte Chemie - International Edition, 2021, 60, 13603-13608.	13.8	3
23	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. Angewandte Chemie, 2021, 133, 13715-13720.	2.0	0
24	Establishment of a novel monoclonal antibody against truncated glycoforms of β -dystroglycan lacking matriglycans. Biochemical and Biophysical Research Communications, 2021, 579, 8-14.	2.1	4
25	Purified EDEM3 or EDEM1 alone produces determinant oligosaccharide structures from M8B in mammalian glycoprotein ERAD. ELife, 2021, 10, .	6.0	9
26	Desiccation-induced fibrous condensation of CAHS protein from an anhydrobiotic tardigrade. Scientific Reports, 2021, 11, 21328.	3.3	38
27	Remodeling of the Oligosaccharide Conformational Space in the Prebound State To Improve Lectin-Binding Affinity. Biochemistry, 2020, 59, 3180-3185.	2.5	9
28	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	3.8	87
29	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q. International Journal of Molecular Sciences, 2020, 21, 147.	4.1	13
30	Residual Structure of Unfolded Ubiquitin as Revealed by Hydrogen/Deuterium-Exchange 2D NMR. Biophysical Journal, 2020, 119, 2029-2038.	0.5	5
31	Silkworm Pupae Function as Efficient Producers of Recombinant Glycoproteins with Stable-Isotope Labeling. Biomolecules, 2020, 10, 1482.	4.0	4
32	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. Angewandte Chemie, 2020, 132, 18087-18093.	2.0	7
33	NMR Characterization of Conformational Interconversions of Lys48-Linked Ubiquitin Chains. International Journal of Molecular Sciences, 2020, 21, 5351.	4.1	2
34	Biophysical characterization of dynamic structures of immunoglobulin G. Biophysical Reviews, 2020, 12, 637-645.	3.2	18
35	Characterization of amyloid β fibril formation under microgravity conditions. Npj Microgravity, 2020, 6, 17.	3.7	10
36	Integral approach to biomacromolecular structure by analytical-ultracentrifugation and small-angle scattering. Communications Biology, 2020, 3, 294.	4.4	9

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37	Improved secretion of glycoproteins using an N-glycan-restricted passport sequence tag recognized by cargo receptor. <i>Nature Communications</i> , 2020, 11, 1368.	12.8	15
38	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17931-17937.	13.8	11
39	Solid-state ¹⁷ O NMR analysis of synthetically ¹⁷ O-enriched d-glucosamine. <i>Chemical Physics Letters</i> , 2020, 749, 137455.	2.6	5
40	Supramolecular tholos-like architecture constituted by archaeal proteins without functional annotation. <i>Scientific Reports</i> , 2020, 10, 1540.	3.3	8
41	Recombinant Expression and Purification of Animal Intracellular L-Type Lectins. <i>Methods in Molecular Biology</i> , 2020, 2132, 21-28.	0.9	2
42	EDEM2 stably disulfide-bonded to TXNDC11 catalyzes the first mannose trimming step in mammalian glycoprotein ERAD. <i>ELife</i> , 2020, 9, .	6.0	31
43	Crystallographic snapshots of the EF-hand protein MCFD2 complexed with the intracellular lectin ERGIC-53 involved in glycoprotein transport. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 216-221.	0.8	8
44	The Fab portion of immunoglobulin G contributes to its binding to Fcγ ₃ receptor III. <i>Scientific Reports</i> , 2019, 9, 11957.	3.3	35
45	Dynamic Views of the Fc Region of Immunoglobulin G Provided by Experimental and Computational Observations. <i>Antibodies</i> , 2019, 8, 39.	2.5	29
46	Newly developed Laboratory-based Size exclusion chromatography Small-angle x-ray scattering System (La-SSS). <i>Scientific Reports</i> , 2019, 9, 12610.	3.3	21
47	Generation of the heterogeneity of extracellular vesicles by membrane organization and sorting machineries. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 681-691.	2.4	20
48	Molecular and Structural Basis of the Proteasome $\hat{\alpha}$ Subunit Assembly Mechanism Mediated by the Proteasome-Assembling Chaperone PAC3-PAC4 Heterodimer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2231.	4.1	15
49	Mutational and Combinatorial Control of Self-Assembling and Disassembling of Human Proteasome $\hat{\alpha}$ Subunits. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2308.	4.1	6
50	GlcNAc6ST3 is a keratan sulfate sulfotransferase for the protein-tyrosine phosphatase PTPRZ in the adult brain. <i>Scientific Reports</i> , 2019, 9, 4387.	3.3	18
51	SDS-induced oligomerization of Lys49-phospholipase A2 from snake venom. <i>Scientific Reports</i> , 2019, 9, 2330.	3.3	15
52	N-glycome inheritance from cells to extracellular vesicles in B16 melanomas. <i>FEBS Letters</i> , 2019, 593, 942-951.	2.8	13
53	Cooperative Binding of KaiB to the KaiC Hexamer Ensures Accurate Circadian Clock Oscillation in Cyanobacteria. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4550.	4.1	18
54	Effects of a Hydrophilic/Hydrophobic Interface on Amyloid- β Peptides Studied by Molecular Dynamics Simulations and NMR Experiments. <i>Journal of Physical Chemistry B</i> , 2019, 123, 160-169.	2.6	36

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55	Enabling adoption of 2D-NMR for the higher order structure assessment of monoclonal antibody therapeutics. <i>MABs</i> , 2019, 11, 94-105.	5.2	67
56	ATP hydrolysis by KaiC promotes its KaiA binding in the cyanobacterial circadian clock system. <i>Life Science Alliance</i> , 2019, 2, e201900368.	2.8	14
57	<i>Structural Biology of Glycans.</i> , 2019, , 35-63.		0
58	Nrf2 activation attenuates genetic endoplasmic reticulum stress induced by a mutation in the phosphomannomutase 2 gene in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2758-2763.	7.1	43
59	Backbone 1H, 13C, and 15N assignments of the extracellular region of human Fc γ 3 receptor IIIb. <i>Biomolecular NMR Assignments</i> , 2018, 12, 201-204.	0.8	3
60	Stable isotope labeling approaches for NMR characterization of glycoproteins using eukaryotic expression systems. <i>Journal of Biomolecular NMR</i> , 2018, 71, 193-202.	2.8	38
61	Site-specific N-glycosylation analysis of soluble Fc γ 3 receptor IIIb in human serum. <i>Scientific Reports</i> , 2018, 8, 2719.	3.3	21
62	Conversion of functionally undefined homopentameric protein PbaA into a proteasome activator by mutational modification of its C-terminal segment conformation. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 29-36.	2.1	5
63	<i>N</i> -glycan structures of human alveoli provide insight into influenza A virus infection and pathogenesis. <i>FEBS Journal</i> , 2018, 285, 1611-1634.	4.7	31
64	Lewis X-Carrying Neoglycolipids Evoke Selective Apoptosis in Neural Stem Cells. <i>Neurochemical Research</i> , 2018, 43, 212-218.	3.3	0
65	Solution NMR views of dynamical ordering of biomacromolecules. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 287-306.	2.4	26
66	Technical Basis for Nuclear Magnetic Resonance Approach for Glycoproteins. , 2018, , 415-438.		9
67	Structural insights on the dynamics of proteasome formation. <i>Biophysical Reviews</i> , 2018, 10, 597-604.	3.2	11
68	Structure and Dynamics of Immunoglobulin G Glycoproteins. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 219-235.	1.6	8
69	Structural Aspects of ER Glycoprotein Quality-Control System Mediated by Glucose Tagging. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 149-169.	1.6	8
70	Expression, Functional Characterization, and Preliminary Crystallization of the Co-chaperone Prefoldin from the Thermophilic Fungus <i>Chaetomium thermophilum</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 2452.	4.1	4
71	Molecular Dynamics of Gangliosides. <i>Methods in Molecular Biology</i> , 2018, 1804, 411-417.	0.9	0
72	Ganglioside-Mediated Assembly of Amyloid β -Protein: Roles in Alzheimer's Disease. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 156, 413-434.	1.7	35

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73	NMR Characterization of the Dynamic Conformations of Oligosaccharides. , 2018, , 737-754.		6
74	Functional roles of glycoconjugates in the maintenance of stemness and differentiation process of neural stem cells. Glycoconjugate Journal, 2017, 34, 757-763.	2.7	12
75	Crystal structure of human proteasome assembly chaperone PAC4 involved in proteasome formation. Protein Science, 2017, 26, 1080-1085.	7.6	12
76	N-Glycan Modification of a Recombinant Protein via Coexpression of Human Glycosyltransferases in Silkworm Pupae. Scientific Reports, 2017, 7, 1409.	3.3	19
77	Alteration of a recombinant protein N-glycan structure in silkworms by partial suppression of N-acetylglucosaminidase gene expression. Biotechnology Letters, 2017, 39, 1299-1308.	2.2	2
78	GlcNAc6ST-1 regulates sulfation of N-glycans and myelination in the peripheral nervous system. Scientific Reports, 2017, 7, 42257.	3.3	16
79	Hyper-Assembly of Self-Assembled Glycoclusters Mediated by Specific Carbohydrate-Carbohydrate Interactions. Chemistry - an Asian Journal, 2017, 12, 968-972.	3.3	11
80	Conformational Analysis of a High-Mannose-Type Oligosaccharide Displaying Glucosyl Determinant Recognised by Molecular Chaperones Using NMR-Validated Molecular Dynamics Simulation. ChemBioChem, 2017, 18, 396-401.	2.6	26
81	Conformational effects of N-glycan core fucosylation of immunoglobulin G Fc region on its interaction with Fcγ3 receptor IIIa. Scientific Reports, 2017, 7, 13780.	3.3	57
82	Characterization of conformational deformation-coupled interaction between immunoglobulin G1 Fc glycoprotein and a low-affinity Fcγ3 receptor by deuteration-assisted small-angle neutron scattering. Biochemistry and Biophysics Reports, 2017, 12, 1-4.	1.3	12
83	Visualisation of a flexible modular structure of the ER folding-sensor enzyme UGGT. Scientific Reports, 2017, 7, 12142.	3.3	36
84	Two-step process for disassembly mechanism of proteasome 17 homo-tetradecamer by 6 revealed by high-speed atomic force microscopy. Scientific Reports, 2017, 7, 15373.	3.3	14
85	Interactions Controlling the Slow Dynamic Conformational Motions of Ubiquitin. Molecules, 2017, 22, 1414.	3.8	3
86	NMR Detection of Semi-Specific Antibody Interactions in Serum Environments. Molecules, 2017, 22, 1619.	3.8	13
87	O-GlcNAc on NOTCH1 EGF repeats regulates ligand-induced Notch signaling and vascular development in mammals. ELife, 2017, 6, .	6.0	82
88	NMR Characterization of the Dynamic Conformations of Oligosaccharides. , 2017, , 1-18.		2
89	Stable Isotope Labeling of Glycoproteins for NMR Study. New Developments in NMR, 2017, , 194-207.	0.1	5
90	Formation of the chaperonin complex studied by 2D NMR spectroscopy. PLoS ONE, 2017, 12, e0187022.	2.5	0

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91	Membrane-Induced Dichotomous Conformation of Amyloid β^2 with the Disordered N-Terminal Segment Followed by the Stable C-Terminal β^2 Structure. PLoS ONE, 2016, 11, e0146405.	2.5	18
92	Direct Mapping of Additional Modifications on Phosphorylated O-glycans of β^1 -Dystroglycan by Mass Spectrometry Analysis in Conjunction with Knocking Out of Causative Genes for Dystroglycanopathy. Molecular and Cellular Proteomics, 2016, 15, 3424-3434.	3.8	25
93	Interaction mode between catalytic and regulatory subunits in glucosidase II involved in ER glycoprotein quality control. Protein Science, 2016, 25, 2095-2101.	7.6	16
94	Structural basis for two-step glucose trimming by glucosidase II involved in ER glycoprotein quality control. Scientific Reports, 2016, 6, 20575.	3.3	31
95	New insight into the dynamical system of β^1 -crystallin oligomers. Scientific Reports, 2016, 6, 29208.	3.3	32
96	Structural characterization of the circadian clock protein complex composed of KaiB and KaiC by inverse contrast-matching small-angle neutron scattering. Scientific Reports, 2016, 6, 35567.	3.3	24
97	Application of Site-Specific Spin Labeling for NMR Detecting Inhibitor-Induced Conformational Change of HIV-1 Reverse Transcriptase. ChemMedChem, 2016, 11, 363-366.	3.2	15
98	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. Glycoconjugate Journal, 2016, 33, 405-415.	2.7	25
99	NMR Explorations of Biomolecular Systems with Rapid Conformational Exchanges. , 2016, , 87-103.		1
100	Disassembly of the self-assembled, double-ring structure of proteasome β^7 homo-tetradecamer by β^6 . Scientific Reports, 2015, 5, 18167.	3.3	23
101	NMR characterization of HIV-1 reverse transcriptase binding to various non-nucleoside reverse transcriptase inhibitors with different activities. Scientific Reports, 2015, 5, 15806.	3.3	13
102	Structural basis of redox-dependent substrate binding of protein disulfide isomerase. Scientific Reports, 2015, 5, 13909.	3.3	27
103	Ectopic clustering of Cajal-Retzius and subplate cells is an initial pathological feature in Pomgnt2-knockout mice, a model of dystroglycanopathy. Scientific Reports, 2015, 5, 11163.	3.3	18
104	A Hybrid Strategy for the Preparation of ^{13}C -labeled High-mannose-type Oligosaccharides with Terminal Glucosylation for NMR Study. Chemistry Letters, 2015, 44, 1744-1746.	1.3	12
105	A Self-Assembled Spherical Complex Displaying a Gangliosidic Glycan Cluster Capable of Interacting with Amyloidogenic Proteins. Angewandte Chemie - International Edition, 2015, 54, 8435-8439.	13.8	38
106	Emerging Structural Insights into Glycoprotein Quality Control Coupled with N-Glycan Processing in the Endoplasmic Reticulum. Molecules, 2015, 20, 2475-2491.	3.8	37
107	Importance of the Side Chain at Position 296 of Antibody Fc in Interactions with Fc γ 3R11a and Other Fc γ 3 Receptors. PLoS ONE, 2015, 10, e0140120.	2.5	25
108	Structural basis for amyloidogenic peptide recognition by sorLA. Nature Structural and Molecular Biology, 2015, 22, 199-206.	8.2	55

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109	Impaired O-Linked N-Acetylglucosamylation in the Endoplasmic Reticulum by Mutated Epidermal Growth Factor (EGF) Domain-specific O-Linked N-Acetylglucosamine Transferase Found in Adams-Oliver Syndrome. <i>Journal of Biological Chemistry</i> , 2015, 290, 2137-2149.	3.4	35
110	Conformational Dynamics of Oligosaccharides Characterized by Paramagnetism-Assisted NMR Spectroscopy in Conjunction with Molecular Dynamics Simulation. <i>Advances in Experimental Medicine and Biology</i> , 2015, 842, 217-230.	1.6	16
111	Glycan structure and serum half-life of recombinant CTLA4Ig, an immunosuppressive agent, expressed in suspension-cultured rice cells with coexpression of human β 1,4-galactosyltransferase and human CTLA4Ig. <i>Glycoconjugate Journal</i> , 2015, 32, 161-172.	2.7	8
112	Stable isotope labeling of glycoprotein expressed in silkworms using immunoglobulin G as a test molecule. <i>Journal of Biomolecular NMR</i> , 2015, 62, 157-167.	2.8	13
113	NMR-based structural validation of therapeutic antibody produced in <i>Nicotiana benthamiana</i> . <i>Plant Cell Reports</i> , 2015, 34, 959-968.	5.6	13
114	Backbone ^1H , ^{13}C , and ^{15}N resonance assignments of the Fc fragment of human immunoglobulin G glycoprotein. <i>Biomolecular NMR Assignments</i> , 2015, 9, 257-260.	0.8	38
115	Structural and dynamic views of GM1 ganglioside. <i>Glycoconjugate Journal</i> , 2015, 32, 105-112.	2.7	22
116	Paramagnetic NMR probes for characterization of the dynamic conformations and interactions of oligosaccharides. <i>Glycoconjugate Journal</i> , 2015, 32, 505-513.	2.7	38
117	Redox-coupled structural changes of the catalytic α domain of protein disulfide isomerase. <i>FEBS Letters</i> , 2015, 589, 2690-2694.	2.8	6
118	Forcible destruction of severely misfolded mammalian glycoproteins by the non-glycoprotein ERAD pathway. <i>Journal of Cell Biology</i> , 2015, 211, 775-784.	5.2	39
119	A self-assembled, π -stacked complex as a finely-tunable magnetic aligner for biomolecular NMR applications. <i>Chemical Communications</i> , 2015, 51, 2540-2543.	4.1	7
120	Redox-dependent conformational transition of catalytic domain of protein disulfide isomerase indicated by crystal structure-based molecular dynamics simulation. <i>Chemical Physics Letters</i> , 2015, 618, 203-207.	2.6	10
121	Structural Heterogeneity of Glycoform of Alpha-1 Acid Glycoprotein in Alcoholic Cirrhosis Patients. <i>Advances in Experimental Medicine and Biology</i> , 2015, 842, 389-401.	1.6	4
122	pH-Dependent Assembly and Segregation of the Coiled-Coil Segments of Yeast Putative Cargo Receptors Emp46p and Emp47p. <i>PLoS ONE</i> , 2015, 10, e0140287.	2.5	7
123	Paramagnetism-Assisted Nuclear Magnetic Resonance Analysis of Dynamic Conformations and Interactions of Oligosaccharides. , 2015, , 137-145.		2
124	Structural Basis for Disparate Sugar-Binding Specificities in the Homologous Cargo Receptors ERGIC-53 and VIP36. <i>PLoS ONE</i> , 2014, 9, e87963.	2.5	31
125	EDEM2 initiates mammalian glycoprotein ERAD by catalyzing the first mannose trimming step. <i>Journal of Cell Biology</i> , 2014, 206, 347-356.	5.2	131
126	Conformational characterization of a protein complex involving intrinsically disordered protein by small-angle neutron scattering using the inverse contrast matching method: a case study of interaction between $\text{I}\kappa\text{B}$ -synuclein and PbaB tetramer as a model chaperone. <i>Journal of Applied Crystallography</i> , 2014, 47, 430-435.	4.5	18

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127	Crystal structure of archaeal homolog of proteasome-assembly chaperone PbaA. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 493-497.	2.1	5
128	Backbone 1H, 13C, and 15N assignments of yeast Ump1, an intrinsically disordered protein that functions as a proteasome assembly chaperone. <i>Biomolecular NMR Assignments</i> , 2014, 8, 383-386.	0.8	16
129	Structural Basis for Proteasome Formation Controlled by an Assembly Chaperone Nas2. <i>Structure</i> , 2014, 22, 731-743.	3.3	23
130	Mode of substrate recognition by the Josephin domain of ataxin-3, which has an endo-type deubiquitinase activity. <i>FEBS Letters</i> , 2014, 588, 4422-4430.	2.8	12
131	Exploration of Conformational Spaces of High-Mannose Type Oligosaccharides by an NMR-Validated Simulation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10941-10944.	13.8	60
132	Total synthesis and characterization of thielocin B1 as a protein-protein interaction inhibitor of PAC3 homodimer. <i>Chemical Science</i> , 2014, 5, 1860-1868.	7.4	13
133	Pba3-Pba4 heterodimer acts as a molecular matchmaker in proteasome 19S-ring formation. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1110-1114.	2.1	25
134	Close Identity between Alternatively Folded State N ₂ of Ubiquitin and the Conformation of the Protein Bound to the Ubiquitin-Activating Enzyme. <i>Biochemistry</i> , 2014, 53, 447-449.	2.5	19
135	Recent advances in glycoprotein production for structural biology: toward tailored design of glycoforms. <i>Current Opinion in Structural Biology</i> , 2014, 26, 44-53.	5.7	23
136	Structural insight into substrate recognition by the endoplasmic reticulum folding-sensor enzyme: crystal structure of third thioredoxin-like domain of UDP-glucose:glycoprotein glucosyltransferase. <i>Scientific Reports</i> , 2014, 4, 7322.	3.3	34
137	Structural Analysis of Oligosaccharides and Glycoconjugates Using NMR. <i>Advances in Neurobiology</i> , 2014, 9, 165-183.	1.8	7
138	Spatial arrangement and functional role of 19S subunits of proteasome activator PA28 in hetero-oligomeric form. <i>Biochemical and Biophysical Research Communications</i> , 2013, 432, 141-145.	2.1	24
139	Structural and functional mosaic nature of MHC class I molecules in their peptide-free form. <i>Molecular Immunology</i> , 2013, 55, 393-399.	2.2	34
140	Self-recognition of high-mannose type glycans mediating adhesion of embryonal fibroblasts. <i>Glycoconjugate Journal</i> , 2013, 30, 485-496.	2.7	3
141	Ganglioside-embedding small bicelles for probing membrane-landing processes of intrinsically disordered proteins. <i>Chemical Communications</i> , 2013, 49, 1235.	4.1	29
142	Stable isotope-assisted NMR characterization of interaction between lipid A and sarcotoxin IA, a cecropin-type antibacterial peptide. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 136-140.	2.1	9
143	Nuclear magnetic resonance approaches for characterizing interactions between the bacterial chaperonin GroEL and unstructured proteins. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 160-164.	2.2	18
144	The H/D-Exchange Kinetics of the Escherichia coli Co-Chaperonin GroES Studied by 2D NMR and DMSO-Quenched Exchange Methods. <i>Journal of Molecular Biology</i> , 2013, 425, 2541-2560.	4.2	11

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145	NMR characterization of the interaction of GroEL with amyloid I ² as a model ligand. FEBS Letters, 2013, 587, 1605-1609.	2.8	21
146	Solution Structure of the Q41N Variant of Ubiquitin as a Model for the Alternatively Folded N ₂ State of Ubiquitin. Biochemistry, 2013, 52, 1874-1885.	2.5	26
147	Application of Metabolic ¹³ C Labeling in Conjunction with High-Field Nuclear Magnetic Resonance Spectroscopy for Comparative Conformational Analysis of High Mannose-Type Oligosaccharides. Biomolecules, 2013, 3, 108-123.	4.0	37
148	The Unfolded Protein Response Transducer ATF6 Represents a Novel Transmembrane-type Endoplasmic Reticulum-associated Degradation Substrate Requiring Both Mannose Trimming and SEL1L Protein. Journal of Biological Chemistry, 2013, 288, 31517-31527.	3.4	68
149	Endoplasmic reticulum lectin XTP ³ inhibits endoplasmic reticulum-associated degradation of a misfolded I ¹ trypsin variant. FEBS Journal, 2013, 280, 1563-1575.	4.7	33
150	The use of spin desalting columns in DMSO-quenched H/D-exchange NMR experiments. Protein Science, 2013, 22, 486-491.	7.6	8
151	Ero1 ¹ and PDIs constitute a hierarchical electron transfer network of endoplasmic reticulum oxidoreductases. Journal of Cell Biology, 2013, 202, 861-874.	5.2	131
152	Terminal Spin Labeling of a High-mannose-type Oligosaccharide for Quantitative NMR Analysis of Its Dynamic Conformation. Chemistry Letters, 2013, 42, 544-546.	1.3	25
153	New NMR Tools for Characterizing the Dynamic Conformations and Interactions of Oligosaccharides. Chemistry Letters, 2013, 42, 1455-1462.	1.3	34
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