

Saeko Yanaka

List of Publications by Year in descending order

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55
papers

857
citations

623734

14
h-index

526287

27
g-index

59
all docs

59
docs citations

59
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Interleukin-11 Links Oxidative Stress and Compensatory Proliferation. <i>Science Signaling</i> , 2012, 5, ra5.	3.6	87
2	Quantitative analysis of proteinâ€“ligand interactions by NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2016, 96, 47-57.	7.5	82
3	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
4	Conformational effects of N-glycan core fucosylation of immunoglobulin G Fc region on its interaction with FcÎ³ receptor IIIa. <i>Scientific Reports</i> , 2017, 7, 13780.	3.3	57
5	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
6	Peptide-dependent Conformational Fluctuation Determines the Stability of the Human Leukocyte Antigen Class I Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 24680-24690.	3.4	37
7	Structural and thermodynamic basis for the recognition of the substrate-binding cleft on hen egg lysozyme by a single-domain antibody. <i>Scientific Reports</i> , 2019, 9, 15481.	3.3	36
8	Hyperthin nanochains composed of self-polymerizing protein shackles. <i>Nature Communications</i> , 2013, 4, 2211.	12.8	35
9	The Fab portion of immunoglobulin G contributes to its binding to FcÎ³ receptor III. <i>Scientific Reports</i> , 2019, 9, 11957.	3.3	35
10	Dynamic Views of the Fc Region of Immunoglobulin G Provided by Experimental and Computational Observations. <i>Antibodies</i> , 2019, 8, 39.	2.5	29
11	Conformational Analysis of a Highâ€“Mannoseâ€“Type Oligosaccharide Displaying Glucosyl Determinant Recognised by Molecular Chaperones Using NMRâ€“Validated Molecular Dynamics Simulation. <i>ChemBioChem</i> , 2017, 18, 396-401.	2.6	26
12	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
13	Theoretical and Experimental Studies on Inclusion Complexes of Pinostrobin and Î²-Cyclodextrins. <i>Scientia Pharmaceutica</i> , 2018, 86, 5.	2.0	18
14	Biophysical characterization of dynamic structures of immunoglobulin G. <i>Biophysical Reviews</i> , 2020, 12, 637-645.	3.2	18
15	Elucidation of potential sites for antibody engineering by fluctuation editing. <i>Scientific Reports</i> , 2017, 7, 9597.	3.3	15
16	Isothiocyanate Inhibits Restitution and Wound Repair after Injury in the Stomach: Ex Vivo and in Vitro Studies. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 323, 1-9.	2.5	14
17	Impact of Intrinsic Cooperative Thermodynamics of Peptide-MHC Complexes on Antiviral Activity of HIV-Specific CTL. <i>Journal of Immunology</i> , 2009, 182, 5528-5536.	0.8	14
18	NMR Detection of Semi-Specific Antibody Interactions in Serum Environments. <i>Molecules</i> , 2017, 22, 1619.	3.8	13

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19	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q. <i>International Journal of Molecular Sciences</i> , 2020, 21, 147.	4.1	13
20	Non-core Region Modulates Interleukin-11 Signaling Activity. <i>Journal of Biological Chemistry</i> , 2011, 286, 8085-8093.	3.4	12
21	Characterization of conformational deformation-coupled interaction between immunoglobulin G1 Fc glycoprotein and a low-affinity Fc γ 3 receptor by deuteration-assisted small-angle neutron scattering. <i>Biochemistry and Biophysics Reports</i> , 2017, 12, 1-4.	1.3	12
22	Hyper-Assembly of Self-Assembled Glycoclusters Mediated by Specific Carbohydrate-Carbohydrate Interactions. <i>Chemistry - an Asian Journal</i> , 2017, 12, 968-972.	3.3	11
23	Exploration of the Conformational Dynamics of Major Histocompatibility Complex Molecules. <i>Frontiers in Immunology</i> , 2017, 8, 632.	4.8	11
24	Editorial for the Special Issue of Biophysical Reviews focused on the Biophysical Society of Japan with select scientific content from the 57th BSJ annual meeting, Miyazaki, Japan. <i>Biophysical Reviews</i> , 2020, 12, 183-185.	3.2	11
25	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
26	Characterization of amyloid β fibril formation under microgravity conditions. <i>Npj Microgravity</i> , 2020, 6, 17.	3.7	10
27	Comprehensive characterization of oligosaccharide conformational ensembles with conformer classification by free-energy landscape via reproductive kernel Hilbert space. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9753-9760.	2.8	10
28	Tardigrade Secretory-Abundant Heat-Soluble Protein Has a Flexible β -Barrel Structure in Solution and Keeps This Structure in Dehydration. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9145-9154.	2.6	10
29	Technical Basis for Nuclear Magnetic Resonance Approach for Glycoproteins. , 2018, , 415-438.		9
30	Remodeling of the Oligosaccharide Conformational Space in the Prebound State To Improve Lectin-Binding Affinity. <i>Biochemistry</i> , 2020, 59, 3180-3185.	2.5	9
31	Structure and Dynamics of Immunoglobulin G Glycoproteins. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 219-235.	1.6	8
32	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie</i> , 2020, 132, 18087-18093.	2.0	7
33	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
34	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
35	Mutational and Combinatorial Control of Self-Assembling and Disassembling of Human Proteasome β Subunits. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2308.	4.1	6
36	Structural and Functional Roles of the N-Glycans in Therapeutic Antibodies. , 2021, , 534-542.		6

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37	Contribution of the flexible loop region to the function of staphylococcal enterotoxin B. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 415-421.	2.1	5
38	Residual Structure of Unfolded Ubiquitin as Revealed by Hydrogen/Deuterium-Exchange 2D NMR. <i>Biophysical Journal</i> , 2020, 119, 2029-2038.	0.5	5
39	DMSO-Quenched H/D-Exchange 2D NMR Spectroscopy and Its Applications in Protein Science. <i>Molecules</i> , 2022, 27, 3748.	3.8	5
40	Silkworm Pupae Function as Efficient Producers of Recombinant Glycoproteins with Stable-Isotope Labeling. <i>Biomolecules</i> , 2020, 10, 1482.	4.0	4
41	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
42	Backbone ¹ H, ¹³ C, and ¹⁵ N assignments of the extracellular region of human Fcγ ₃ receptor IIIb. <i>Biomolecular NMR Assignments</i> , 2018, 12, 201-204.	0.8	3
43	Characterization of New DNA Aptamers for Anti-HIV-1 Reverse Transcriptase. <i>ChemBioChem</i> , 2021, 22, 915-923.	2.6	3
44	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
45	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13603-13608.	13.8	3
46	NMR Characterization of Conformational Interconversions of Lys48-Linked Ubiquitin Chains. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5351.	4.1	2
47	Biophysical Characterization of Novel DNA Aptamers against K103N/Y181C Double Mutant HIV-1 Reverse Transcriptase. <i>Molecules</i> , 2022, 27, 285.	3.8	2
48	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
49	Current status and issues of protein solution biophysics—Session 1SDP. <i>Biophysical Reviews</i> , 2020, 12, 263-264.	3.2	1
50	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
51	2P050 1E1435 The effect of structural dynamics of the Human Leucocyte Antigen on the function of cytotoxic T Lymphocyte (The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010, 50, S90-S91.	0.1	0
52	Revealing the peptide presenting process of human leukocyte antigen through the analysis of fluctuation. <i>Biophysics (Nagoya-shi, Japan)</i> , 2015, 11, 103-106.	0.4	0
53	The Dynamics Stabilization Mechanism of Human Leucocyte Antigen Revealed by NMR. <i>Seibutsu Butsuri</i> , 2015, 55, 101-102.	0.1	0
54	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. <i>Angewandte Chemie</i> , 2021, 133, 13715-13720.	2.0	0

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55	Formation of the chaperonin complex studied by 2D NMR spectroscopy. PLoS ONE, 2017, 12, e0187022.	2.5	0