Kazuyuki Akasaka

List of Publications by Year
in descending order

41	1,515	331670 21	395702 33
papers	citations	h-index	g-index

42	42	42	970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing Conformational Fluctuation of Proteins by Pressure Perturbation. Chemical Reviews, 2006, 106, 1814-1835.	47.7	268
2	Effect of Pressure on Individual Hydrogen Bonds in Proteins. Basic Pancreatic Trypsin Inhibitorâ€. Biochemistry, 1998, 37, 1167-1173.	2.5	113
3	Pressure response of protein backbone structure. Pressureâ€induced amide ¹⁵N chemical shifts in BPTI. Protein Science, 1999, 8, 1946-1953.	7.6	98
4	Low-Lying Excited States of Proteins Revealed from Nonlinear Pressure Shifts in 1H and 15N NMR. Biochemistry, 2001, 40, 8665-8671.	2.5	86
5	High Pressure NMR Reveals Active-Site Hinge Motion of Folate-Bound Escherichia coli Dihydrofolate Reductase. Biochemistry, 2000, 39, 12789-12795.	2.5	79
6	Highly Fluctuating Protein Structures Revealed by Variable-Pressure Nuclear Magnetic Resonance. Biochemistry, 2003, 42, 10875-10885.	2.5	75
7	Response of native and denatured hen lysozyme to high pressure studied by 15 N/1 H NMR spectroscopy. FEBS Journal, 2001, 268, 1782-1793.	0.2	57
8	The methanol-induced transition and the expanded helical conformation in hen lysozyme. Protein Science, 1998, 7, 681-688.	7.6	56
9	The compact and expanded denatured conformations of apomyoglobin in the methanolâ€water solvent. Protein Science, 1999, 8, 873-882.	7.6	52
10	Pressure-induced chemical shifts as probes for conformational fluctuations in proteins. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 71, 35-58.	7.5	52
11	Structure of an analog of fusion peptide from hemagglutinin. Protein Science, 2000, 9, 786-798.	7.6	51
12	Amyloid Protofibril is Highly Voluminous and Compressible. Biochemistry, 2007, 46, 10444-10450.	2.5	43
13	Exploring the entire conformational space of proteins by high-pressure NMR. Pure and Applied Chemistry, 2003, 75, 927-936.	1.9	42
14	¹⁵N and ¹H NMR study of histidine containing protein (hpr) from staphylococcus carnosus at high pressure. Protein Science, 2000, 9, 693-703.	7.6	42
15	Cavity hydration as a gateway to unfolding: An NMR study of hen lysozyme at high pressure and low temperature. Biophysical Chemistry, 2011, 156, 24-30.	2.8	42
16	Three-dimensional structure of gurmarin, a sweet taste-suppressing polypeptide. Journal of Biomolecular NMR, 1995, 5, 297-305.	2.8	40
17	Dynamics of the three methionyl side chains of Streptomyces subtilisin inhibitor. Deuterium NMR studies in solution and in the solid state. Protein Science, 1996, 5, 127-139.	7.6	39
18	Filling a cavity dramatically increases pressure stability of the c-Myb R2 subdomain. Proteins: Structure, Function and Bioinformatics, 2001, 45, 96-101.	2.6	39

#	Article	IF	Citations
19	High pressure NMR study of a small protein, gurmarin. Journal of Biomolecular NMR, 1998, 12, 535-541.	2.8	29
20	Pressure-dependent changes in the structure of the melittin alpha-helix determined by NMR. Journal of Biomolecular NMR, 2001, 19, 115-124.	2.8	29
21	The pressure-temperature phase diagram of hen lysozyme at low pH. Biophysics (Nagoya-shi, Japan), 2009, 5, 1-9.	0.4	25
22	Rapid internal dynamics of BPTI is insensitive to pressure. FEBS Letters, 2000, 470, 11-14.	2.8	21
23	Structural fluctuation of proteins induced by thermodynamic perturbation. Journal of Chemical Physics, 2015, 142, 044110.	3.0	21
24	Stateâ€correlated twoâ€dimensional NMR spectroscopy: Separation of local dipolar fields of protons in nematic phase of 4â€²â€methoxybenzylideneâ€4â€acetoxyaniline. Journal of Chemical Physics, 1996, 105, 4504-4510.	3.0	20
25	Perspective: Structural fluctuation of protein and Anfinsenâ€™s thermodynamic hypothesis. Journal of Chemical Physics, 2018, 148, 020901.	3.0	17
26	Microwave temperature-jump nuclear magnetic resonance system for aqueous solutions. Review of Scientific Instruments, 1998, 69, 3365-3369.	1.3	12
27	Ureaâ€induced conformational changes in coldâ€and heatâ€denatured states of a protein, Streptomyces subtilisin inhibitor. Protein Science, 1997, 6, 2242-2249.	7.6	12
28	Pressure and protein dynamism. High Pressure Research, 2014, 34, 222-235.	1.2	11
29	Direct high-pressure NMR observation of dipicolinic acid leaking from bacterial spore: A crucial step for thermal inactivation. Biophysical Chemistry, 2017, 231, 10-14.	2.8	11
30	Conformational Properties Relevant to the Amyloidogenicity of Î²₂-Microglobulin Analyzed Using Pressure- and Salt-Dependent Chemical Shift Data. Journal of Physical Chemistry B, 2019, 123, 836-844.	2.6	10
31	Pressure-assisted dissociation and degradation of â€œproteinase K-resistantâ€•fibrils prepared by seeding with scrapie-infected hamster prion protein. Prion, 2014, 8, 314-318.	1.8	6
32	High Pressure NMR Spectroscopy. Sub-Cellular Biochemistry, 2015, 72, 707-721.	2.4	6
33	Protein Studies by High-Pressure NMR. , 2018, , 3-36.		6
34	Conformational fluctuations in a green fluorescent protein-like Akane family protein: a high-pressure fluorescence study at 0.1â€“700â€…MPa. High Pressure Research, 2017, 37, 224-232.	1.2	2
35	High Pressure NMR Expands the Protein Structure World.. Seibutsu Butsuri, 2002, 42, 206-211.	0.1	1
36	S1c2-2 Low-Lying Excited States of Proteins Associated with Cavity Hydration(S1-c2: "Protein Hydration) Tj ETQq0 0 0 rgBT /Overlock 10 Seibutsu Butsuri, 2006, 46, S114.	0.1	0

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37	2P123 The disulfide-bond dependence of the morphology of amyloid-like fibers from hen lysozyme(31.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Seibutsu Butsuri, 2006, 46, S326.	0.1	0
38	1P580 Dynamics of cavity in c-Myb R2 sub-domain studied by high-pressure MD simulation(27. Molecular) Tj ETQq0 0 0 rgBT /Overlock 1 2006, 46, S291.	0.1	0
39	3P047 Activation Volume and Activation Compressibility for Dissociation of Young Amyloid Protofibrils(Proteins-stability, folding, and other physicochemical properties,Poster Presentations). Seibutsu Butsuri, 2007, 47, S214.	0.1	0
40	3P019 A relationships among compression of the cavity of c-MybR2, conformational changes and fluctuation under high-pressure using MD simulation(01A. Protein: Structure,Poster,The 52nd Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	0
41	Direct High-Pressure NMR Observation of Molecular Processes of Spore Inactivation by a Sequential Pressure-Temperature Perturbation. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 113-122.	0.0	0