Takashi Nakazawa

List of Publications by Year
in descending order

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54	1,138	394421 19	414414 32
papers	citations	h-index	g-index

55	55	55	1071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Î±-Helix folding by Monte Carlo simulated annealing in isolated C-peptide of ribonuclease A. Protein Engineering, Design and Selection, 1991, 4, 639-647.	2.1	94
2	Determination of pK_a Values of Individual Histidine Residues in Proteins Using Mass Spectrometry. Analytical Chemistry, 2008, 80, 6481-6487.	6.5	75
3	Characterization of Collagen Model Peptides Containing 4-Fluoroproline; (4(S)-Fluoroproline-Pro-Gly)10Forms a Triple Helix, but (4(R)-Fluoroproline-Pro-Gly)10Does Not. Journal of the American Chemical Society, 2003, 125, 9922-9923.	13.7	67
4	Tautomerism of Histidine 64 Associated with Proton Transfer in Catalysis of Carbonic Anhydrase. Journal of Biological Chemistry, 2007, 282, 9646-9656.	3.4	65
5	Different Effects of 4-Hydroxyproline and 4-Fluoroproline on the Stability of Collagen Triple Helix. Biochemistry, 2005, 44, 6034-6042.	2.5	64
6	Effect of Hydration on the Stability of the Collagen-like Triple-Helical Structure of [4(R)-Hydroxyprolyl-4(R)-hydroxyprolylglycine]10â€¡. Biochemistry, 2005, 44, 15812-15822.	2.5	61
7	Prediction of Î±-Helix Folding of Isolated C-Peptide of Ribonuclease A by Monte Carlo Simulated Annealing. Chemistry Letters, 1991, 20, 213-216.	1.3	60
8	High-Throughput Method for N-Terminal Sequencing of Proteins by MALDI Mass Spectrometry. Analytical Chemistry, 2005, 77, 645-651.	6.5	47
9	Simple and efficient syntheses of Boc- and Fmoc-protected 4(R)- and 4(S)-fluoroproline solely from 4(R)-hydroxyproline. Tetrahedron, 2002, 58, 8453-8459.	1.9	46
10	Terminal proteomics: Nâ€•and Câ€terminal analyses for highâ€fidelity identification of proteins using MS. Proteomics, 2008, 8, 673-685.	2.2	45
11	Structure and reaction mechanism of human nicotinamide phosphoribosyltransferase. Journal of Biochemistry, 2010, 147, 95-107.	1.7	33
12	Specific Racemization of Heavy-Chain Cysteine-220 in the Hinge Region of Immunoglobulin Gamma 1 as a Possible Cause of Degradation during Storage. Analytical Chemistry, 2011, 83, 3857-3864.	6.5	32
13	Collagen-like triple helix formation of synthetic (Pro-Pro-Gly)10 analogues: (4(S)-hydroxyprolyl-4(R)-hydroxyprolyl-Gly)10, (4(R)-hydroxyprolyl-4(R)-hydroxyprolyl-Gly)10 and (4(S)-fluoroprolyl-4(R)-fluoroprolyl-Gly)10. Journal of Peptide Science, 2005, 11, 609-616.	1.4	31
14	A novel derivatization method with 5-bromonicotinic acid N-hydroxysuccinimide for determination of the amino acid sequences of peptides. , 1998, 12, 603-608.		25
15	Enhancement of MALDI-MS Spectra of C-Terminal Peptides by the Modification of Proteins via an Active Ester Generated in Situ from an Oxazolone. Analytical Chemistry, 2006, 78, 7861-7869.	6.5	24
16	Synthesis and characterization of Î²-O-tosyldehydroserine as a precursor of dehydroamino acids. Tetrahedron Letters, 1997, 38, 8951-8954.	1.4	21
17	Specific isolation of Nâ€terminal fragments from proteins and their highâ€fidelity de novo sequencing. Rapid Communications in Mass Spectrometry, 2007, 21, 3329-3336.	1.5	21
18	Selective isolation of N-terminal peptides from proteins and theirde novosequencing by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry without regard to unblocking or blocking of N-terminal amino acids. Rapid Communications in Mass Spectrometry, 2008, 22, 3313-3319.	1.5	21

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19	A new approach for detecting Câ€terminal amidation of proteins and peptides by mass spectrometry in conjunction with chemical derivatization. Proteomics, 2009, 9, 4063-4070.	2.2	21
20	Enhanced responses in matrix-assisted laser desorption/ionization mass spectrometry of peptides derivatized with arginine via a C-terminal oxazolone. Rapid Communications in Mass Spectrometry, 2004, 18, 799-807.	1.5	20
21	Effect of UVC Irradiation on the Oxidation of Histidine in Monoclonal Antibodies. Scientific Reports, 2020, 10, 6333.	3.3	20
22	Î²-sheet folding of fragment (16â€“36) of bovine pancreatic trypsin inhibitor as predicted by Monte Carlo simulated annealing. Protein Engineering, Design and Selection, 1992, 5, 495-503.	2.1	18
23	The triple helical structure and stability of collagen model peptide with 4(s)â€hydroxyprolylâ€proâ€gly units. Biopolymers, 2012, 98, 111-121.	2.4	18
24	A method for N-terminal de novo sequencing of N^{Î±}-blocked proteins by mass spectrometry. Analyst, The, 2011, 136, 113-119.	3.5	16
25	Î±-Helix structure of parathyroid hormone fragment (1-34) predicted by Monte Carlo simulated annealing. International Journal of Peptide and Protein Research, 1993, 42, 300-303.	0.1	15
26	Î²-sheet formation in BPTI(16â€“36) by Monte Carlo simulated annealing. Chemical Physics Letters, 1999, 299, 17-24.	2.6	13
27	Stabilization mechanism of triple helical structure of collagen molecules. International Journal of Peptide Research and Therapeutics, 2003, 10, 533-537.	0.1	13
28	Î±-Helix Propensities of Amino Acids Studied by Multicanonical Algorithm. Chemistry Letters, 1995, 24, 391-392.	1.3	12
29	Application of Bis(terpyridine)ruthenium(II) to N-Terminal Amino Acid Sequencing. Chemistry Letters, 2005, 34, 332-333.	1.3	11
30	Preparation and conformational analysis of C-glycosyl Î²2- and Î²/Î²2-peptides. Carbohydrate Research, 2009, 344, 613-626.	2.3	10
31	C-Terminal sequencing of protein by MALDI mass spectrometry through the specific derivatization of the Î±-carboxyl group with 3-aminopropyltris-(2,4,6-trimethoxyphenyl)phosphonium bromide. Analytical and Bioanalytical Chemistry, 2012, 404, 125-132.	3.7	10
32	Imidazole C-2 Hydrogen/Deuterium Exchange Reaction at Histidine for Probing Protein Structure and Function with Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. Biochemistry, 2014, 53, 1818-1826.	2.5	10
33	X-Ray snapshots of a pyridoxal enzyme: a catalytic mechanism involving concerted [1,5]-hydrogen sigmatropy in methionine Î³-lyase. Scientific Reports, 2017, 7, 4874.	3.3	10
34	Monte Carlo Simulated Annealing Prediction for Î±-Helix Propensity of Amino Acid Homopolymers. Chemistry Letters, 1991, 20, 1279-1282.	1.3	9
35	Synthesis of novel all-cis-functionalized cyclopropane template-assembled collagen modelsâ€. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 1870-1875.	1.3	9
36	Polymorphism of Collagen Triple Helix Revealed by ¹⁹F NMR of Model Peptide [Pro-4(R)-Hydroxyprolyl-Gly]₃-[Pro-4(R)-Fluoroprolyl-Gly]-[Pro-4(R)-Hydroxyprolyl-Gly]₃. Journal of Physical Chemistry B, 2012, 116, 6908-6915.	2.6	9

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37	Conversion of arginine to ornithine for improving the fragmentation pattern of peptides labeled with the N-terminal tris(2,4,6-trimethoxyphenyl)phosphonium group in tandem mass spectrometry. Analytical Methods, 2010, 2, 1792.	2.7	8
38	Rapid and Sensitive Amino-Acid Sequencing of Cloning Thermus thermophilus HB8 Ferredoxin by Proteomics. Journal of Proteome Research, 2004, 3, 983-987.	3.7	7
39	Conformational preferences of 4â€²chloroproline residues. Biopolymers, 2012, 97, 629-641.	2.4	7
40	Stabilization mechanism of triple helical structure of collagen molecules. International Journal of Peptide Research and Therapeutics, 2003, 10, 533-537.	1.9	6
41	Chemistry in Proteomics: An Interplay between Classical Methods in Chemical Modification of Proteins and Mass Spectrometry at the Cutting Edge. Current Proteomics, 2006, 3, 33-54.	0.3	6
42	Synthesis of Î±,Î²-Dehydrotryptophan by reaction of indole with the Î²-(N-methylamino)dehydroalanine derivative. Tetrahedron Letters, 1998, 39, 1381-1384.	1.4	5
43	High sequence-coverage detection of proteolytic peptides using a bis(terpyridine)ruthenium(ii) complex. Analyst, The, 2007, 132, 358.	3.5	5
44	Simultaneous detection of Nâ€terminal fragment ions in a protein mixture using a ruthenium(II) complex. Rapid Communications in Mass Spectrometry, 2007, 21, 2647-2653.	1.5	5
45	Paleoenvironment and human hunting activity during MIS 2 in southern Jordan: Isotope records of prey remains and paleosols. Quaternary Science Reviews, 2022, 282, 107432.	3.0	5
46	Enzymatic conversion of arginine to citrulline for improving fragmentation of NÎ±-tris(2,4,6-trimethoxyphenyl)phosphonium-acetylated peptides by tandem mass spectrometry. Analytical Methods, 2011, 3, 2829.	2.7	4
47	A pH-dependent variation in ?-helix structure of the S-peptide of ribonuclease A studied by Monte Carlo simulated annealing. Biopolymers, 2002, 63, 273-279.	2.4	3
48	Site-Specific 13C-Labeling of Trp 62 in Hen Egg-White Lysozyme: Preparation and 13C-NMR Titration of [Î´1-13C]Trp 62-Lysozyme1. Journal of Biochemistry, 1991, 110, 295-300.	1.7	1
49	Degradation of 5'-Ribonucleotides Caused by the Peroxidation of Methyl Linoleate in Dehydrated Systems.. Agricultural and Biological Chemistry, 1991, 55, 2273-2279.	0.3	0
50	Degradation of 5â€²-Ribonucleotides Caused by the Peroxidation of Methyl Linoleate in Dehydrated Systems. Agricultural and Biological Chemistry, 1991, 55, 2273-2279.	0.3	0
51	Photophysical properties of viologen-linked n-alkylporphyrins and their zinc(II) complexes in solutions. Studies in Physical and Theoretical Chemistry, 1995, , 353-356.	0.0	0
52	1P-063 QM and NMR Analysis of Tautomerization of His64 Coupled to Ionization of Zinc-Bound Solvent during Proton Transfer in Carbonic Anhydrase(The 46th Annual Meeting of the Biophysical Society of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		0
53	Analysis of the archaeological specimens with protein chemistry and mass spectrometry to address the issues of ancient culture and civilization. Impact, 2018, 2018, 69-71.	0.1	0
54	Tautomerism of histidine 64 associated with proton transfer in catalysis of Carbonic Anhydrase. FASEB Journal, 2008, 22, 611.23.	0.5	0