Hidehito Tochio

List of Publications by Year in descending order

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ΗΙΔΕΗΙΤΟ ΤΟCΗΙΟ

#	Article	IF	CITATIONS
1	Recognition of hemi-methylated DNA by the SRA protein UHRF1 by a base-flipping mechanism. Nature, 2008, 455, 818-821.	27.8	432
2	High-resolution multi-dimensional NMR spectroscopy of proteins in human cells. Nature, 2009, 458, 106-109.	27.8	410
3	Paramagnetic Relaxation-Based ¹⁹ F MRI Probe To Detect Protease Activity. Journal of the American Chemical Society, 2008, 130, 794-795.	13.7	234
4	Self-assembling nanoprobes that display off/on 19F nuclear magnetic resonance signals for protein detection and imaging. Nature Chemistry, 2009, 1, 557-561.	13.6	204
5	Structural basis for the multiple interactions of the MyD88 TIR domain in TLR4 signaling. Proceedings of the United States of America, 2009, 106, 10260-10265.	7.1	197
6	Crystal structure of thymine DNA glycosylase conjugated to SUMO-1. Nature, 2005, 435, 979-982.	27.8	193
7	Recognition of modification status on a histone H3 tail by linked histone reader modules of the epigenetic regulator UHRF1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12950-12955.	7.1	178
8	Real-Time Background-Free Selective Imaging of Fluorescent Nanodiamonds in Vivo. Nano Letters, 2012, 12, 5726-5732.	9.1	177
9	Structural basis for distinct roles of Lys63- and Lys48-linked polyubiquitin chains. Genes To Cells, 2004, 9, 865-875.	1.2	147
10	Solution structure of the extended neuronal nitric oxide synthase PDZ domain complexed with an associated peptide. Nature Structural Biology, 1999, 6, 417-421.	9.7	134
11	Structural basis of diverse sequence-dependent target recognition by the 8 kDa dynein light chain11Edited by P. E. Wright. Journal of Molecular Biology, 2001, 306, 97-108.	4.2	129
12	Intracellular Phosphate Serves as a Signal for the Regulation of the PHO Pathway in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 17289-17294.	3.4	129
13	Supramodular structure and synergistic target binding of the N-terminal tandem PDZ domains of PSD-95. Journal of Molecular Biology, 2003, 327, 203-214.	4.2	128
14	Structure of the UBA Domain of Dsk2p in Complex with Ubiquitin. Structure, 2005, 13, 521-532.	3.3	126
15	In-cell NMR spectroscopy of proteins inside Xenopus laevis oocytes. Journal of Biomolecular NMR, 2006, 36, 179-188.	2.8	120
16	Distance Determination in Proteins inside <i>Xenopus laevis</i> Oocytes by Double Electronâ^'Electron Resonance Experiments. Journal of the American Chemical Society, 2010, 132, 8228-8229.	13.7	120
17	Crystal Structure of the Ubiquitin-associated (UBA) Domain of p62 and Its Interaction with Ubiquitin. Journal of Biological Chemistry, 2011, 286, 31864-31874.	3.4	117
18	Formation of nNOS/PSD-95 PDZ dimer requires a preformed β-finger structure from the nNOS PDZ domain. Journal of Molecular Biology, 2000, 303, 359-370.	4.2	116

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19	The structural basis for receptor recognition of human interleukin-18. Nature Communications, 2014, 5, 5340.	12.8	107
20	Solution structure and backbone dynamics of the second PDZ domain of postsynaptic density-95. Journal of Molecular Biology, 2000, 295, 225-237.	4.2	105
21	Plc1p, Arg82p, and Kcs1p, Enzymes Involved in Inositol Pyrophosphate Synthesis, Are Essential for Phosphate Regulation and Polyphosphate Accumulation in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2005, 280, 25127-25133.	3.4	101
22	Cooperative Domain Formation by Homologous Motifs in HOIL-1L and SHARPIN Plays A Crucial Role in LUBAC Stabilization. Cell Reports, 2018, 23, 1192-1204.	6.4	84
23	Structure of the Ubiquitin-interacting Motif of S5a Bound to the Ubiquitin-like Domain of HR23B. Journal of Biological Chemistry, 2004, 279, 4760-4767.	3.4	79
24	Protein Inhibitor of Neuronal Nitric-oxide Synthase, PIN, Binds to a 17-Amino Acid Residue Fragment of the Enzyme. Journal of Biological Chemistry, 1998, 273, 33472-33481.	3.4	75
25	The unexpected role of polyubiquitin chains in the formation of fibrillar aggregates. Nature Communications, 2015, 6, 6116.	12.8	75
26	Structure of the Small Ubiquitin-like Modifier (SUMO)-interacting Motif of MBD1-containing Chromatin-associated Factor 1 Bound to SUMO-3. Journal of Biological Chemistry, 2008, 283, 35966-35975.	3.4	68
27	A Structured Monodisperse PEG for the Effective Suppression of Protein Aggregation. Angewandte Chemie - International Edition, 2013, 52, 2430-2434.	13.8	66
28	Solution Structure of the Ubiquitin-associated (UBA) Domain of Human Autophagy Receptor NBR1 and Its Interaction with Ubiquitin and Polyubiquitin. Journal of Biological Chemistry, 2014, 289, 13890-13902.	3.4	60
29	Crystal Structure of SUMO-3-modified Thymine-DNA Glycosylase. Journal of Molecular Biology, 2006, 359, 137-147.	4.2	51
30	Solution structure of a protein inhibitor of neuronal nitric oxide synthase. Nature Structural Biology, 1998, 5, 965-969.	9.7	49
31	Quantitative comparison of protein dynamics in live cells and in vitro by in-cell 19F-NMR. Chemical Communications, 2013, 49, 2801.	4.1	47
32	Pruning the ALS-Associated Protein SOD1 for in-Cell NMR. Journal of the American Chemical Society, 2013, 135, 10266-10269.	13.7	44
33	Molecular Basis for SUMOylation-dependent Regulation of DNA Binding Activity of Heat Shock Factor 2. Journal of Biological Chemistry, 2009, 284, 2435-2447.	3.4	36
34	Structural characterization of the MIT domain from human Vps4b. Biochemical and Biophysical Research Communications, 2005, 334, 460-465.	2.1	35
35	A Common Substrate Recognition Mode Conserved between Katanin p60 and VPS4 Governs Microtubule Severing and Membrane Skeleton Reorganization. Journal of Biological Chemistry, 2010, 285, 16822-16829.	3.4	34
36	Tracking the 3D Rotational Dynamics in Nanoscopic Biological Systems. Journal of the American Chemical Society, 2020, 142, 7542-7554.	13.7	34

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37	Assignment of Backbone Resonances for Larger Proteins Using the13Câ^'1H Coherence of a1Hα-,2H-,13C-, and15N-Labeled Sample. Journal of the American Chemical Society, 1997, 119, 872-880.	13.7	33
38	TRAM Is Involved in IL-18 Signaling and Functions as a Sorting Adaptor for MyD88. PLoS ONE, 2012, 7, e38423.	2.5	32
39	Structural basis for regulation of polyâ€6UMO chain by a SUMOâ€like domain of Nip45. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1491-1502.	2.6	28
40	Suppression of Nonspecific Protein–Nanodiamond Adsorption Enabling Specific Targeting of Nanodiamonds to Biomolecules of Interest. Chemistry Letters, 2015, 44, 354-356.	1.3	27
41	Backbone dynamics of the 8 kDa dynein light chain dimer reveals molecular basis of the protein's functional diversity. Journal of Biomolecular NMR, 2002, 23, 103-114.	2.8	26
42	Formation of a native-like β-hairpin finger structure of a peptide from the extended PDZ domain of neuronal nitric oxide synthase in aqueous solution. FEBS Journal, 2000, 267, 3116-3122.	0.2	25
43	Structure and Mutagenesis Studies of the C-terminal Region of Licensing Factor Cdt1 Enable the Identification of Key Residues for Binding to Replicative Helicase Mcm Proteins. Journal of Biological Chemistry, 2010, 285, 15931-15940.	3.4	25
44	High-throughput construction method for expression vector of peptides for NMR study suited for isotopic labeling. Protein Engineering, Design and Selection, 2004, 17, 305-314.	2.1	24
45	Functional assessment of the mutational effects of human IRAK4 and MyD88 genes. Molecular Immunology, 2014, 58, 66-76.	2.2	24
46	Selective Labeling of Proteins on Living Cell Membranes Using Fluorescent Nanodiamond Probes. Nanomaterials, 2016, 6, 56.	4.1	24
47	Contribution of Coiled-Coil Assembly to Ca2+/Calmodulin-Dependent Inactivation of TRPC6 Channel and its Impacts on FSGS-Associated Phenotypes. Journal of the American Society of Nephrology: JASN, 2019, 30, 1587-1603.	6.1	23
48	Kinetic and Thermodynamic Evidence for Flipping of a Methyl-CpG Binding Domain on Methylated DNA. Biochemistry, 2008, 47, 3266-3271.	2.5	21
49	Watching protein structure at work in living cells using NMR spectroscopy. Current Opinion in Chemical Biology, 2012, 16, 609-613.	6.1	21
50	Expression, Purification and Structural Analysis of Human IL-18 Binding Protein: A Potent Therapeutic Molecule for Allergy. Allergology International, 2008, 57, 367-376.	3.3	19
51	In-Cell NMR Spectroscopy in Protein Chemistry and Drug Discovery. Current Topics in Medicinal Chemistry, 2011, 11, 68-73.	2.1	18
52	Effective production of fluorescent nanodiamonds containing negatively-charged nitrogen-vacancy centers by ion irradiation. Diamond and Related Materials, 2014, 49, 33-38.	3.9	18
53	Optically Detected Magnetic Resonance of Nanodiamonds <l>ln Vivo</l> ; Implementation of Selective Imaging and Fast Sampling. Journal of Nanoscience and Nanotechnology, 2015, 15, 1014-1021.	0.9	18
54	Solution structure of a zincâ€finger domain that binds to polyâ€ADPâ€ribose. Genes To Cells, 2010, 15, 101-110.	1.2	17

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55	NMR analysis of Lys63-linked polyubiquitin recognition by the tandem ubiquitin-interacting motifs of Rap80. Journal of Biomolecular NMR, 2012, 52, 339-350.	2.8	17
56	Magnetic Resonance Imaging of Tumor with a Self-Traceable Phosphorylcholine Polymer. Journal of the American Chemical Society, 2015, 137, 799-806.	13.7	16
57	Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ¹⁹ F Magnetic Resonance Imaging. ChemBioChem, 2017, 18, 951-959.	2.6	16
58	Molecular Mechanism of a Temperature-Sensitive Phenotype in Peroxisomal Biogenesis Disorder. Pediatric Research, 2005, 58, 263-269.	2.3	15
59	An innate interaction between IL-18 and the propeptide that inactivates its precursor form. Scientific Reports, 2019, 9, 6160.	3.3	15
60	A novel magnetic resonance-based method to measure gene expression in living cells. Nucleic Acids Research, 2006, 34, e51-e51.	14.5	14
61	Fluoroscopic assessment of protein leakage during Xenopus oocytes in-cell NMR experiment by co-injected EGFP. Analytical Biochemistry, 2007, 371, 247-249.	2.4	14
62	Molecular analysis of the binding mode of Toll/interleukin-1 receptor (TIR) domain proteins during TLR2 signaling. Molecular Immunology, 2012, 52, 108-116.	2.2	14
63	[21] Induced structural changes in protein-DNA complexes. Methods in Enzymology, 1995, 261, 524-541.	1.0	13
64	Substrate/Product-Targeted NMR Monitoring of Pyrimidine Catabolism and Its Inhibition by a Clinical Drug. ACS Chemical Biology, 2012, 7, 535-542.	3.4	11
65	The solution structure of the Câ€ŧerminal domain of NfeD reveals a novel membraneâ€anchored OBâ€ŧold. Protein Science, 2008, 17, 1915-1924.	7.6	10
66	Purification, crystallization and preliminary X-ray crystallographic analysis of human IL-18 and its extracellular complexes. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1351-1356.	0.8	10
67	Heteronuclear multidimensional NMR and homology modelling studies of the C-terminal nucleotide-binding domain of the human mitochondrial ABC transporter ABCB6. Journal of Biomolecular NMR, 2006, 35, 53-71.	2.8	9
68	Turn-on Detection of Targeted Biochemical Reactions by Triple Resonance NMR Analysis Using Isotope-labeled Probe. Chemistry Letters, 2010, 39, 926-928.	1.3	8
69	Selective autophagic receptor p62 regulates the abundance of transcriptional coregulator ARIP4 during nutrient starvation. Scientific Reports, 2015, 5, 14498.	3.3	8
70	UCP3 is associated with Hax-1 in mitochondria in the presence of calcium ion. Biochemical and Biophysical Research Communications, 2016, 472, 108-113.	2.1	8
71	Conformational Space Sampled by Domain Reorientation of Linear Diubiquitin Reflected in Its Binding Mode for Target Proteins. ChemPhysChem, 2021, 22, 1505-1517.	2.1	8
72	Magnetic resonance-based visualization of gene expression in mammalian cells using a bacterial polyphosphate kinase reporter gene. BioTechniques, 2007, 42, 209-215.	1.8	7

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73	Structural analysis of the TKB domain of ubiquitin ligase Cbl-b complexed with its small inhibitory peptide, Cblin. Archives of Biochemistry and Biophysics, 2016, 594, 1-7.	3.0	7
74	1H, 13C, and 15N resonance assignment of the TIR domain of human MyD88. Biomolecular NMR Assignments, 2010, 4, 123-125.	0.8	6
75	Fine-tuning of protein domain boundary by minimizing potential coiled coil regions. Journal of Biomolecular NMR, 2006, 37, 53-63.	2.8	5
76	Purification, crystallization and preliminary crystallographic studies of Lys48-linked polyubiquitin chains. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 834-837.	0.7	4
77	Intramolecular interaction suggests an autosuppression mechanism for the innate immune adaptor protein MyD88. Chemical Communications, 2018, 54, 12318-12321.	4.1	3
78	Cytokine-inducing glycolipids in the lipoteichoic acid fraction from Enterococcus hirae ATCC 9790. FEMS Immunology and Medical Microbiology, 1995, 12, 97-112.	2.7	2
79	Characterizing conformational ensembles of multi-domain proteins using anisotropic paramagnetic NMR restraints. Biophysical Reviews, 2022, 14, 55-66.	3.2	2
80	2P127 SUMO-3 (Small Ubiquitin-like Modifier) Recognition by a SUMO Binding Motif(31. Protein folding) Tj ETQq 2006, 46, S327.	0 0 0 rgB 0.1	[/Overlock] 0
81	S1f2-3 In vitro and in cell NMR studies of modifier proteins(S1-f2: "Functions and dynamics of protein) Tj ETQq1 1 Butsuri, 2006, 46, S119.	0.784314 0.1	4 rgBT /Over 0
82	1P-044 Thermodynamic analysis of the hemi-methylated CpG DNA recognition by SRA domain of mouse NP95(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S27.	0.1	0
83	1P-043 The Ubiquitin Associated Domain Of p62 In The Solution Exists In A Monomer-Dimer Equilibrium(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S27.	0.1	0
84	3P-091 Molecular basis for SUMOylation-dependent regulation of DNA binding activity of Heat Shock Factor 2(Nucleic acid binding proteins,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S166.	0.1	0
85	3P019 Structural and thermodynamic analyses of histone H3 recognition by UHRF1(Protein:) Tj ETQq1 1 0.78431 S148.	14 rgBT /O 0.1	verlock 10 T 0
86	2SB-02 Protein NMR spectroscopy in the cellular environment(2SB Symposium organized by younger) Tj ETQq0 C	0 rgBT /C 0.1	overlock 101 0
87	1SCP-05 Optically detected magnetic resonance spectroscopy of nitrogen-vacancy centers for subnanoscopic measurement in vivo(1SCP Challenges to in vivo biophysics,Symposium,The 51th Annual) Tj ETQq	1 d. D.784	3 b 4 rgBT /O
88	Impairment of Calcium-dependent inactivation of TRPC6 Mediated by Calmodulin Underlies Renal Channelopathy. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-3-25.	0.0	0