

Takuya Miyakawa

List of Publications by Citations

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91
papers

2,762
citations

23
h-index

51
g-index

97
ext. papers

3,429
ext. citations

6.6
avg, IF

4.92
L-index

#	Paper	IF	Citations
91	Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport. <i>Plant and Cell Physiology</i> , 2010 , 51, 1821-39	4.9	612
90	Structural basis of abscisic acid signalling. <i>Nature</i> , 2009 , 462, 609-14	50.4	406
89	Molecular mechanism of strigolactone perception by DWARF14. <i>Nature Communications</i> , 2013 , 4, 2613	17.4	245
88	Structure and function of abscisic acid receptors. <i>Trends in Plant Science</i> , 2013 , 18, 259-66	13.1	126
87	Roasting process of coffee beans as studied by nuclear magnetic resonance: time course of changes in composition. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 1005-12	5.7	103
86	(13)C NMR-based metabolomics for the classification of green coffee beans according to variety and origin. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 10118-25	5.7	89
85	Structural basis for the Ca(2+)-enhanced thermostability and activity of PET-degrading cutinase-like enzyme from <i>Saccharomonospora viridis</i> AHK190. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 4297-307	5.7	70
84	Complex mixture analysis of organic compounds in green coffee bean extract by two-dimensional NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48, 857-65	2.1	65
83	Comprehensive NMR analysis of compositional changes of black garlic during thermal processing. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 683-91	5.7	64
82	Metabolic discrimination of mango juice from various cultivars by band-selective NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 1158-66	5.7	50
81	A pilot study of NMR-based sensory prediction of roasted coffee bean extracts. <i>Food Chemistry</i> , 2014 , 152, 363-9	8.5	47
80	A secreted protein with plant-specific cysteine-rich motif functions as a mannose-binding lectin that exhibits antifungal activity. <i>Plant Physiology</i> , 2014 , 166, 766-78	6.6	43
79	Structural analysis of HTL and D14 proteins reveals the basis for ligand selectivity in <i>Striga</i> . <i>Nature Communications</i> , 2018 , 9, 3947	17.4	43
78	Two-dimensional 1H-13C nuclear magnetic resonance (NMR)-based comprehensive analysis of roasted coffee bean extract. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 9065-73	5.7	42
77	NMR-based metabolomics for simultaneously evaluating multiple determinants of primary beef quality in Japanese Black cattle. <i>Scientific Reports</i> , 2017 , 7, 1297	4.9	41
76	Structural basis of unique ligand specificity of KAI2-like protein from parasitic weed <i>Striga hermonthica</i> . <i>Scientific Reports</i> , 2016 , 6, 31386	4.9	38
75	A new target region for changing the substrate specificity of amine transaminases. <i>Scientific Reports</i> , 2015 , 5, 10753	4.9	36

74	Crystal structure of ginkbilobin-2 with homology to the extracellular domain of plant cysteine-rich receptor-like kinases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 247-51	4.2	29
73	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. <i>ACS Chemical Biology</i> , 2017 , 12, 558-563	4.9	28
72	MEATabolomics: Muscle and Meat Metabolomics in Domestic Animals. <i>Metabolites</i> , 2020 , 10,	5.6	28
71	Enzymes useful for chiral compound synthesis: structural biology, directed evolution, and protein engineering for industrial use. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5747-57	5.7	26
70	A sequence-specific DNA glycosylase mediates restriction-modification in <i>Pyrococcus abyssi</i> . <i>Nature Communications</i> , 2014 , 5, 3178	17.4	23
69	Triazole Ureas Covalently Bind to Strigolactone Receptor and Antagonize Strigolactone Responses. <i>Molecular Plant</i> , 2019 , 12, 44-58	14.4	23
68	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2182-2190	5.4	21
67	Loss of IDH2 Accelerates Age-related Hearing Loss in Male Mice. <i>Scientific Reports</i> , 2018 , 8, 5039	4.9	21
66	NMR-based metabolic profiling of rice wines by F(2)-selective total correlation spectra. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4818-25	5.7	21
65	GSTA4 mediates reduction of cisplatin ototoxicity in female mice. <i>Nature Communications</i> , 2019 , 10, 4150	7.4	20
64	Control of the localization and function of a miRNA silencing component TNRC6A by Argonaute protein. <i>Nucleic Acids Research</i> , 2015 , 43, 9856-73	20.1	20
63	Different Ca ²⁺ -sensitivities between the EF-hands of T- and L-plastins. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 429, 137-41	3.4	17
62	Overview of the mechanism of cytoskeletal motors based on structure. <i>Biophysical Reviews</i> , 2018 , 10, 571-581	3.7	17
61	Studies on the regulatory mechanism of isocitrate dehydrogenase 2 using acetylation mimics. <i>Scientific Reports</i> , 2017 , 7, 9785	4.9	16
60	Structural basis for brassinosteroid response by BIL1/BZR1. <i>Nature Plants</i> , 2018 , 4, 771-776	11.5	16
59	Laminarinase from <i>Flavobacterium</i> sp. reveals the structural basis of thermostability and substrate specificity. <i>Scientific Reports</i> , 2017 , 7, 11425	4.9	15
58	Structural optimization of SadA, an Fe(II)- and Eketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 450, 1458-61	3.4	14
57	L-allo-threonine aldolase with an H128Y/S292R mutation from <i>Aeromonas jandaei</i> DK-39 reveals the structural basis of changes in substrate stereoselectivity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 1695-703		14

56	Complex Mixture Analysis of Organic Compounds in Yogurt by NMR Spectroscopy. <i>Metabolites</i> , 2016 , 6,	5.6	14
55	Rationally Designed Strigolactone Analogs as Antagonists of the D14 Receptor. <i>Plant and Cell Physiology</i> , 2018 , 59, 1545-1554	4.9	13
54	Crystal structure of the YjgF/YER057c/UK114 family protein from the hyperthermophilic archaeon <i>Sulfolobus tokodaii</i> strain 7. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 62, 557-61	4.2	13
53	Structural bases of IMiD selectivity that emerges by 5-hydroxythalidomide. <i>Nature Communications</i> , 2020 , 11, 4578	17.4	13
52	Use of NMR-Based Metabolomics To Chemically Characterize the Roasting Process of Chicory Root. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 6459-6465	5.7	13
51	Yam Tuber Storage Protein Reduces Plant Oxidants Using the Coupled Reactions as Carbonic Anhydrase and Dehydroascorbate Reductase. <i>Molecular Plant</i> , 2015 , 8, 1115-8	14.4	12
50	Structural basis for high substrate-binding affinity and enantioselectivity of 3-quinuclidinone reductase AtQR. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 911-5	3.4	11
49	Crystal Structure of Human Leukocyte Cell-derived Chemotaxin 2 (LECT2) Reveals a Mechanistic Basis of Functional Evolution in a Mammalian Protein with an M23 Metalloendopeptidase Fold. <i>Journal of Biological Chemistry</i> , 2016 , 291, 17133-42	5.4	10
48	Splenic stromal cells from aged mice produce higher levels of IL-6 compared to young mice. <i>Mediators of Inflammation</i> , 2014 , 2014, 826987	4.3	10
47	Real-Time Monitoring of Chemical Changes in Three Kinds of Fermented Milk Products during Fermentation Using Quantitative Difference Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 1479-1487	5.7	9
46	Crystallization and preliminary X-ray analysis of ginkbilobin-2 from Ginkgo biloba seeds: a novel antifungal protein with homology to the extracellular domain of plant cysteine-rich receptor-like kinases. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007 , 63, 737-9		9
45	NMR-based analysis of the chemical composition of Japanese persimmon aqueous extracts. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 213-21	2.1	8
44	Different DNA-binding specificities of NLP and NIN transcription factors underlie nitrate-induced control of root nodulation. <i>Plant Cell</i> , 2021 , 33, 2340-2359	11.6	8
43	Engineering a short-chain dehydrogenase/reductase for the stereoselective production of (2S,3R,4S)-4-hydroxyisoleucine with three asymmetric centers. <i>Scientific Reports</i> , 2017 , 7, 13703	4.9	7
42	Expression, purification, refolding, and enzymatic characterization of two secretory phospholipases AII from <i>Neurospora crassa</i> . <i>Protein Expression and Purification</i> , 2015 , 115, 69-75	2	7
41	Functional production of human antibody by the filamentous fungus. <i>Fungal Biology and Biotechnology</i> , 2020 , 7, 7	7.5	7
40	Quantification of terpene trilactones in Ginkgo biloba with a H NMR method. <i>Journal of Natural Medicines</i> , 2018 , 72, 793-797	3.3	7
39	Electron microscopic recording of myosin head power stroke in hydrated myosin filaments. <i>Scientific Reports</i> , 2015 , 5, 15700	4.9	7

38	Regulatory mechanism of abscisic acid signaling. <i>Biophysics (Nagoya-shi, Japan)</i> , 2011 , 7, 123-128		7
37	Comprehensive NMR analysis of two kinds of post-fermented tea and their anti-glycation activities in vitro. <i>Food Chemistry</i> , 2019 , 277, 735-743	8.5	7
36	Definite differences between in vitro actin-myosin sliding and muscle contraction as revealed using antibodies to myosin head. <i>PLoS ONE</i> , 2014 , 9, e93272	3.7	6
35	Antioxidant properties and inhibition of angiotensin-converting enzyme by highly active peptides from wheat gluten. <i>Scientific Reports</i> , 2021 , 11, 5206	4.9	6
34	Characterization of the Ca-coordination structures of L- and T-plastins in combination with their synthetic peptide analogs by FTIR spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 4217	4.9	5
33	Structural Basis for Action of the External Chaperone for a Propeptide-deficient Serine Protease from <i>Aeromonas sobria</i> . <i>Journal of Biological Chemistry</i> , 2015 , 290, 11130-43	5.4	5
32	Crystal structure of a Ca-dependent regulator of flagellar motility reveals the open-closed structural transition. <i>Scientific Reports</i> , 2018 , 8, 2014	4.9	5
31	Broadband WET: a novel technique for quantitative characterization of minor components in foods. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 333-8	2.1	5
30	Structural basis for the regulation of phytohormone receptors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 1261-1273	2.1	4
29	Quantitation of Minor Components in Mango Juice with Band-Selective Excitation NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 9547-9552	5.7	4
28	NMR-based metabolic profiling and comparison of Japanese persimmon cultivars. <i>Scientific Reports</i> , 2019 , 9, 15011	4.9	4
27	NIGT1 family proteins exhibit dual mode DNA recognition to regulate nutrient response-associated genes in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2020 , 16, e1009197	6	4
26	Metabolic profiling of natural and cultured Cordyceps by NMR spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 7735	4.9	3
25	A thermoacidophile-specific protein family, DUF3211, functions as a fatty acid carrier with novel binding mode. <i>Journal of Bacteriology</i> , 2013 , 195, 4005-12	3.5	3
24	Crystallization and preliminary X-ray analysis of the YjgF/YER057c/UK114-family protein ST0811 from <i>Sulfolobus tokodaii</i> strain 7. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 828-30		3
23	Gene co-expression network analysis identifies BEH3 as a stabilizer of secondary vascular development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2021 , 33, 2618-2636	11.6	3
22	Molecular basis of strigolactone perception in root-parasitic plants: aiming to control its germination with strigolactone agonists/antagonists. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 1103-1113	10.3	3
21	Intestinal regulatory T cell induction by β -elemene alleviates the formation of fat tissue-related inflammation. <i>iScience</i> , 2021 , 24, 101883	6.1	3

20	Molecular Basis for Substrate Recognition and Catalysis by a Marine Bacterial Laminarinase. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	2
19	Evaluation of spice and herb as phyto-derived selective modulators of human retinaldehyde dehydrogenases using a simple in vitro method. <i>Bioscience Reports</i> , 2021 , 41,	4.1	2
18	Structural comparisons of phosphoenolpyruvate carboxykinases reveal the evolutionary trajectories of these phosphodiester energy conversion enzymes. <i>Journal of Biological Chemistry</i> , 2019 , 294, 19269-19278	5.4	2
17	NMR-Based Metabolomics of Foods	379-387	2
16	Analysis of Weak Affinity of β -D-Fructofuranosyl-(2 \rightarrow 6)-2-acetamido-2-deoxy- β -D-glucopyranoside for Yeast β -Fructofuranosidase Using NMR Spectroscopy. <i>Journal of Carbohydrate Chemistry</i> , 2014 , 33, 498-505	1.7	1
15	Age-Dependent Decrease in the Induction of Regulatory T Cells Is Associated With Decreased Expression of RALDH2 in Mesenteric Lymph Node Dendritic Cells. <i>Frontiers in Immunology</i> , 2020 , 11, 1555	8.4	1
14	β -Elemene Suppresses Obesity-Induced Imbalance in the Microbiota-Gut-Brain Axis. <i>Biomedicines</i> , 2021 , 9,	4.8	1
13	Structural basis of different substrate preferences of two old yellow enzymes from yeasts in the asymmetric reduction of enone compounds. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019 , 83, 456-462 ¹	2.1	1
12	Crystallization and melting properties studied by DSC and FTIR spectroscopy of goldenberry (<i>Physalis peruviana</i>) oil. <i>Food Chemistry</i> , 2022 , 366, 130645	8.5	1
11	Induction of Oral Tolerance by Pepsin-Digested Gliadin Retaining T Cell Reactivity in a Mouse Model of Wheat Allergy. <i>International Archives of Allergy and Immunology</i> , 2020 , 181, 446-455	3.7	0
10	Isolation and characterization of oligopeptides with vascular disease suppression effects derived from wheat gluten. <i>Journal of Food Science and Technology</i> , 2021 , 58, 3504-3513	3.3	0
9	Highlighting the potential utility of MBP crystallization chaperone for Arabidopsis BIL1/BZR1 transcription factor-DNA complex. <i>Scientific Reports</i> , 2021 , 11, 3879	4.9	0
8	Identification of the Effects of Chondroitin Sulfate on Inhibiting CDKs in Colorectal Cancer Based on Bioinformatic Analysis and Experimental Validation. <i>Frontiers in Oncology</i> , 2021 , 11, 705939	5.3	0
7	Preparation of the Extracellular Domain of Recombinant Human Toll-like Receptor 6. <i>Protein Journal</i> , 2017 , 36, 28-35	3.9	
6	2P077 Different Ca ²⁺ -sensitivities between the EF-hands of T- and L-plastins(01D. Protein: Function,Poster,The 52nd Annual Meeting of the Biophysical Society of Japan(BSJ2014)). <i>Seibutsu Butsuri</i> , 2014 , 54, S207	0	
5	1P012 Structural analysis for substrate recognition of carbonyl reductase S1(Protein:Structure,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S21	0	
4	1P046 1YA1045 Structural basis of abscisic acid signaling(Protein:Structure & Function,Early Research in Biophysics Award Candidate Presentations,Early Research in Biophysics Award,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S27	0	
3	II-1. Structural biology of proteins from aquatic organisms. <i>Nippon Suisan Gakkaishi</i> , 2017 , 83, 819-819	0.2	

- 2 Recent Progress in Abscisic Acid Receptor Research. *Seibutsu Butsuri*, **2011**, 51, 026-027 0
- 1 Improved preparation of group-specific component (Gc) protein to derive macrophage activating factor. *Protein Expression and Purification*, **2020**, 175, 105714 2