

Takuya Miyakawa

List of Publications by Year in descending order

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95
papers

3,906
citations

212478

28
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150775

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97
all docs

97
docs citations

97
times ranked

5895
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization and melting properties studied by DSC and FTIR spectroscopy of goldenberry (Physalis) Tj ETQq1 1 0,784314 rgBT /Oveid	4.2	10
2	An Myh11 single lysine deletion causes aortic dissection by reducing aortic structural integrity and contractility. Scientific Reports, 2022, 12, .	1.6	7
3	Î²-elemene regulates M1-M2 macrophage balance through the ERK/JNK/P38 MAPK signaling pathway. Communications Biology, 2022, 5, .	2.0	14
4	Intestinal regulatory T cell induction by Î²-elemene alleviates the formation of fat tissue-related inflammation. IScience, 2021, 24, 101883.	1.9	5
5	Isolation and characterization of oligopeptides with vascular disease suppression effects derived from wheat gluten. Journal of Food Science and Technology, 2021, 58, 3504-3513.	1.4	3
6	Highlighting the potential utility of MBP crystallization chaperone for Arabidopsis BIL1/BZR1 transcription factor-DNA complex. Scientific Reports, 2021, 11, 3879.	1.6	5
7	Antioxidant properties and inhibition of angiotensin-converting enzyme by highly active peptides from wheat gluten. Scientific Reports, 2021, 11, 5206.	1.6	26
8	Different DNA-binding specificities of NLP and NIN transcription factors underlie nitrate-induced control of root nodulation. Plant Cell, 2021, 33, 2340-2359.	3.1	52
9	Evaluation of spice and herb as phyto-derived selective modulators of human retinaldehyde dehydrogenases using a simple <i>in vitro</i> method. Bioscience Reports, 2021, 41, .	1.1	3
10	Î²-Elemene Suppresses Obesity-Induced Imbalance in the Microbiota-Gut-Brain Axis. Biomedicines, 2021, 9, 704.	1.4	8
11	Gene co-expression network analysis identifies BEH3 as a stabilizer of secondary vascular development in Arabidopsis. Plant Cell, 2021, 33, 2618-2636.	3.1	17
12	Identification of the Effects of Chondroitin Sulfate on Inhibiting CDKs in Colorectal Cancer Based on Bioinformatic Analysis and Experimental Validation. Frontiers in Oncology, 2021, 11, 705939.	1.3	2
13	Study on physical and chemical properties of Nabak (Zizyphus spinaeChristi) seed kernel and sweet pepper (Capsicum annuum L.) seed oils. Journal of the Science of Food and Agriculture, 2021, , .	1.7	1
14	Molecular basis of strigolactone perception in root-parasitic plants: aiming to control its germination with strigolactone agonists/antagonists. Cellular and Molecular Life Sciences, 2020, 77, 1103-1113.	2.4	7
15	Improved preparation of group-specific component (Gc) protein to derive macrophage activating factor. Protein Expression and Purification, 2020, 175, 105714.	0.6	0
16	Age-Dependent Decrease in the Induction of Regulatory T Cells Is Associated With Decreased Expression of RALDH2 in Mesenteric Lymph Node Dendritic Cells. Frontiers in Immunology, 2020, 11, 1555.	2.2	6
17	Structural bases of IMiD selectivity that emerges by 5-hydroxythalidomide. Nature Communications, 2020, 11, 4578.	5.8	38
18	Molecular Basis for Substrate Recognition and Catalysis by a Marine Bacterial Laminarinase. Applied and Environmental Microbiology, 2020, 86, .	1.4	9

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19	MEATabolomics: Muscle and Meat Metabolomics in Domestic Animals. <i>Metabolites</i> , 2020, 10, 188.	1.3	81
20	Functional production of human antibody by the filamentous fungus <i>Aspergillus oryzae</i> . <i>Fungal Biology and Biotechnology</i> , 2020, 7, 7.	2.5	9
21	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.	0.9	4
22	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.	1.5	18
23	Low-molecular-weight peptides with potential cardiovascular regulatory functions from Atlantic salmon skin. <i>International Journal of Food Engineering</i> , 2020, 16, .	0.7	0
24	NMR-based metabolic profiling and comparison of Japanese persimmon cultivars. <i>Scientific Reports</i> , 2019, 9, 15011.	1.6	11
25	GSTA4 mediates reduction of cisplatin ototoxicity in female mice. <i>Nature Communications</i> , 2019, 10, 4150.	5.8	39
26	Metabolic profiling of natural and cultured <i>Cordyceps</i> by NMR spectroscopy. <i>Scientific Reports</i> , 2019, 9, 7735.	1.6	8
27	Characterization of the Ca ²⁺ -coordination structures of L- and T-plastins in combination with their synthetic peptide analogs by FTIR spectroscopy. <i>Scientific Reports</i> , 2019, 9, 4217.	1.6	7
28	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.	1.6	10
29	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.	0.6	3
30	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.	4.2	11
31	Triazole Ureas Covalently Bind to Strigolactone Receptor and Antagonize Strigolactone Responses. <i>Molecular Plant</i> , 2019, 12, 44-58.	3.9	40
32	Crystal structure of a Ca ²⁺ -dependent regulator of flagellar motility reveals the open-closed structural transition. <i>Scientific Reports</i> , 2018, 8, 2014.	1.6	7
33	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.	2.4	12
34	Rationally Designed Strigolactone Analogs as Antagonists of the D14 Receptor. <i>Plant and Cell Physiology</i> , 2018, 59, 1545-1554.	1.5	27
35	Quantification of terpene trilactones in <i>Ginkgo biloba</i> with a ¹ H NMR method. <i>Journal of Natural Medicines</i> , 2018, 72, 793-797.	1.1	13
36	Loss of IDH2 Accelerates Age-related Hearing Loss in Male Mice. <i>Scientific Reports</i> , 2018, 8, 5039.	1.6	33

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37	Overview of the mechanism of cytoskeletal motors based on structure. <i>Biophysical Reviews</i> , 2018, 10, 571-581.	1.5	24
38	Structural analysis of HTL and D14 proteins reveals the basis for ligand selectivity in <i>Striga</i> . <i>Nature Communications</i> , 2018, 9, 3947.	5.8	73
39	Structural basis for brassinosteroid response by BIL1/BZR1. <i>Nature Plants</i> , 2018, 4, 771-776.	4.7	33
40	Preparation of the Extracellular Domain of Recombinant Human Toll-like Receptor 6. <i>Protein Journal</i> , 2017, 36, 28-35.	0.7	0
41	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. <i>ACS Chemical Biology</i> , 2017, 12, 558-563.	1.6	33
42	Structural basis for the regulation of phytohormone receptors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1261-1273.	0.6	5
43	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. <i>Journal of Biological Chemistry</i> , 2017, 292, 2182-2190.	1.6	24
44	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.	2.4	6
45	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.	1.6	11
46	Studies on the regulatory mechanism of isocitrate dehydrogenase 2 using acetylation mimics. <i>Scientific Reports</i> , 2017, 7, 9785.	1.6	26
47	Laminarinase from <i>Flavobacterium</i> sp. reveals the structural basis of thermostability and substrate specificity. <i>Scientific Reports</i> , 2017, 7, 11425.	1.6	22
48	NMR-based metabolomics for simultaneously evaluating multiple determinants of primary beef quality in Japanese Black cattle. <i>Scientific Reports</i> , 2017, 7, 1297.	1.6	62
49	â€¦-1. Structural biology of proteins from aquatic organisms. <i>Nippon Suisan Gakkaishi</i> , 2017, 83, 819-819.	0.0	0
50	Complex Mixture Analysis of Organic Compounds in Yogurt by NMR Spectroscopy. <i>Metabolites</i> , 2016, 6, 19.	1.3	17
51	Enzymes useful for chiral compound synthesis: structural biology, directed evolution, and protein engineering for industrial use. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5747-5757.	1.7	30
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.	2.4	20
53	Structural basis of unique ligand specificity of KAI2-like protein from parasitic weed <i>Striga hermonthica</i> . <i>Scientific Reports</i> , 2016, 6, 31386.	1.6	47
54	NMR-based analysis of the chemical composition of Japanese persimmon aqueous extracts. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 213-221.	1.1	13

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55	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, 17133-17142.	1.6	17
56	Electron microscopic recording of myosin head power stroke in hydrated myosin filaments. <i>Scientific Reports</i> , 2015, 5, 15700.	1.6	17
57	Control of the localization and function of a miRNA silencing component TNRC6A by Argonaute protein. <i>Nucleic Acids Research</i> , 2015, 43, gkv1026.	6.5	25
58	Comprehensive NMR Analysis of Compositional Changes of Black Garlic during Thermal Processing. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 683-691.	2.4	89
59	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, 4297-4307.	1.7	95
60	A new target region for changing the substrate specificity of amine transaminases. <i>Scientific Reports</i> , 2015, 5, 10753.	1.6	53
61	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, 11130-11143.	1.6	7
62	Yam Tuber Storage Protein Reduces Plant Oxidants Using the Coupled Reactions as Carbonic Anhydrase and Dehydroascorbate Reductase. <i>Molecular Plant</i> , 2015, 8, 1115-1118.	3.9	16
63	Expression, purification, refolding, and enzymatic characterization of two secretory phospholipases A2 from <i>Neurospora crassa</i> . <i>Protein Expression and Purification</i> , 2015, 115, 69-75.	0.6	9
64	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.	1.1	10
65	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, 766-778.	2.3	83
66	Analysis of Weak Affinity of β -D-Fructofuranosyl-(2 \rightarrow 1)-2-acetamido-2-deoxy- β -D-glucopyranoside for Yeast β -Fructofuranosidase Using NMR Spectroscopy. <i>Journal of Carbohydrate Chemistry</i> , 2014, 33, 498-505.	0.4	1
67	Splenic Stromal Cells from Aged Mice Produce Higher Levels of IL-6 Compared to Young Mice. <i>Mediators of Inflammation</i> , 2014, 2014, 1-9.	1.4	14
68	Structural optimization of SadA, an Fe(II)- and α -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1458-1461.	1.0	15
69	α -L-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, 1695-1703.	2.5	19
70	Structural basis for high substrate-binding affinity and enantioselectivity of 3-quinuclidinone reductase AtQR. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 911-915.	1.0	12
71	Broadband WET: a novel technique for quantitative characterization of minor components in foods. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 333-338.	1.1	6
72	A sequence-specific DNA glycosylase mediates restriction-modification in <i>Pyrococcus abyssi</i> . <i>Nature Communications</i> , 2014, 5, 3178.	5.8	33

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73	A pilot study of NMR-based sensory prediction of roasted coffee bean extracts. Food Chemistry, 2014, 152, 363-369.	4.2	64
74	2P077 Different Ca ²⁺ -sensitivities between the EF-hands of T- and L-plastins(01D. Protein:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 To Butsuri, 2014, 54, S207.	0.0	0
75	A Thermoacidophile-Specific Protein Family, DUF3211, Functions as a Fatty Acid Carrier with Novel Binding Mode. Journal of Bacteriology, 2013, 195, 4005-4012.	1.0	3
76	Molecular mechanism of strigolactone perception by DWARF14. Nature Communications, 2013, 4, 2613.	5.8	310
77	Structure and function of abscisic acid receptors. Trends in Plant Science, 2013, 18, 259-266.	4.3	164
78	Roasting Process of Coffee Beans as Studied by Nuclear Magnetic Resonance: Time Course of Changes in Composition. Journal of Agricultural and Food Chemistry, 2012, 60, 1005-1012.	2.4	130
79	NMR-Based Metabolic Profiling of Rice Wines by ² -Selective Total Correlation Spectra. Journal of Agricultural and Food Chemistry, 2012, 60, 4818-4825.	2.4	22
80	Metabolic Discrimination of Mango Juice from Various Cultivars by Band-Selective NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2012, 60, 1158-1166.	2.4	57
81	¹³ C NMR-Based Metabolomics for the Classification of Green Coffee Beans According to Variety and Origin. Journal of Agricultural and Food Chemistry, 2012, 60, 10118-10125.	2.4	121
82	Different Ca ²⁺ -sensitivities between the EF-hands of T- and L-plastins. Biochemical and Biophysical Research Communications, 2012, 429, 137-141.	1.0	19
83	Two-Dimensional ¹ H- ¹³ C Nuclear Magnetic Resonance (NMR)-Based Comprehensive Analysis of Roasted Coffee Bean Extract. Journal of Agricultural and Food Chemistry, 2011, 59, 9065-9073.	2.4	53
84	Regulatory mechanism of abscisic acid signaling. Biophysics (Nagoya-shi, Japan), 2011, 7, 123-128.	0.4	9
85	Recent Progress in Abscisic Acid Receptor Research. Seibutsu Butsuri, 2011, 51, 026-027.	0.0	0
86	1P012 Structural analysis for substrate recognition of carbonyl reductase S1(Protein:Structure,The) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 To	0.0	0
87	1P046 1YA1045 Structural basis of abscisic acid signaling(Protein:Structure & Function,Early) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 707 To	0.0	0
88	Complex mixture analysis of organic compounds in green coffee bean extract by two-dimensional NMR spectroscopy. Magnetic Resonance in Chemistry, 2010, 48, 857-865.	1.1	81
89	Molecular Basis of the Core Regulatory Network in ABA Responses: Sensing, Signaling and Transport. Plant and Cell Physiology, 2010, 51, 1821-1839.	1.5	800
90	Crystal structure of ginkbilobin with homology to the extracellular domain of plant cysteine-rich receptor-like kinases. Proteins: Structure, Function and Bioinformatics, 2009, 77, 247-251.	1.5	41

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91	Structural basis of abscisic acid signalling. <i>Nature</i> , 2009, 462, 609-614.	13.7	490
92	Crystallization and preliminary X-ray analysis of ginkbilobin-2 from <i>Ginkgo biloba</i> 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, 737-739.	0.7	10
93	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, 828-830.	0.7	4
94	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> , 2005, 62, 557-561.	1.5	13
95	Comparison of Peanut Compounds during Roasting and the Effect of Peanut Shells. <i>ACS Food Science & Technology</i> , 0, , .	1.3	0