Masaru Tanokura

List of Publications by Year
in descending order

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508 papers	17,080 citations	23567 58 h-index	22166 113 g-index
516 all docs	516 docs citations	516 times ranked	20555 citing authors

#	Article	IF	Citations
1	Mitochondrial DNA Mutations, Oxidative Stress, and Apoptosis in Mammalian Aging. Science, 2005, 309, 481-484.	12.6	1,847
2	Sirt3 Mediates Reduction of Oxidative Damage and Prevention of Age-Related Hearing Loss under Caloric Restriction. Cell, 2010, 143, 802-812.	28.9	1,008
3	Molecular Basis of the Core Regulatory Network in ABA Responses: Sensing, Signaling and Transport. Plant and Cell Physiology, 2010, 51, 1821-1839.	3.1	800
4	Structural basis of abscisic acid signalling. Nature, 2009, 462, 609-614.	27.8	490
5	ArabidopsisDREB2A-Interacting Proteins Function as RING E3 Ligases and Negatively Regulate Plant Drought Stressâ€“Responsive Gene Expression. Plant Cell, 2008, 20, 1693-1707.	6.6	477
6	Synergistic Activation of the Arabidopsis NADPH Oxidase AtrbohD by Ca2+ and Phosphorylation. Journal of Biological Chemistry, 2008, 283, 8885-8892.	3.4	415
7	Molecular mechanism of strigolactone perception by DWARF14. Nature Communications, 2013, 4, 2613.	12.8	310
8	Age-related hearing loss in C57BL/6J mice is mediated by Bak-dependent mitochondrial apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19432-19437.	7.1	287
9	Mitochondrial DNA Mutations Induce Mitochondrial Dysfunction, Apoptosis and Sarcopenia in Skeletal Muscle of Mitochondrial DNA Mutator Mice. PLoS ONE, 2010, 5, e11468.	2.5	225
10	A novel Ca2+-activated, thermostabilized polyesterase capable of hydrolyzing polyethylene terephthalate from Saccharomonospora viridis AHK190. Applied Microbiology and Biotechnology, 2014, 98, 10053-10064.	3.6	222
11	Single-molecule paleoenzymology probes the chemistry of resurrected enzymes. Nature Structural and Molecular Biology, 2011, 18, 592-596.	8.2	182
12	Biochemical characterization of NfsA, the Escherichia coli major nitroreductase exhibiting a high amino acid sequence homology to Frp, a Vibrio harveyi flavin oxidoreductase. Journal of Bacteriology, 1996, 178, 4508-4514.	2.2	179
13	Structure and function of abscisic acid receptors. Trends in Plant Science, 2013, 18, 259-266.	8.8	164
14	Experimental evidence for the thermophilicity of ancestral life. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11067-11072.	7.1	153
15	Crystal Structure of the Terminal Oxygenase Component of Biphenyl Dioxygenase Derived from Rhodococcus sp. Strain RHA1. Journal of Molecular Biology, 2004, 342, 1041-1052.	4.2	144
16	Gene Cloning, Purification, and Characterization of NfsB, a Minor Oxygen-Insensitive Nitroreductase from Escherichia coli, Similar in Biochemical Properties to FRase I, the Major Flavin Reductase in Vibrio fischeri. Journal of Biochemistry, 1996, 120, 736-744.	1.7	138
17	1H-NMR study on the tautomerism of the imidazole ring of histidine residues. BBA - Proteins and Proteomics, 1983, 742, 576-585.	2.1	134
18	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.	5.2	130

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19	Optimisation of hydrolysis conditions for the production of the angiotensin-I converting enzyme (ACE) inhibitory peptides from whey protein using response surface methodology. Food Chemistry, 2009, 114, 328-333.	8.2	125
20	Caloric restriction suppresses apoptotic cell death in the mammalian cochlea and leads to prevention of presbycusis. Neurobiology of Aging, 2007, 28, 1613-1622.	3.1	122
21	¹³C 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.	5.2	121
22	Role of mitochondrial dysfunction and mitochondrial DNA mutations in age-related hearing loss. Hearing Research, 2007, 226, 185-193.	2.0	118
23	Three-Dimensional Solution Structure of Oryzacystatin-I, a Cysteine Proteinase Inhibitor of the Rice, Oryza sativa L. japonica,. Biochemistry, 2000, 39, 14753-14760.	2.5	107
24	Coordination to divalent cations by calcium-binding proteins studied by FTIR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2319-2327.	2.6	106
25	1H Nuclear magnetic resonance studies of histidine-containing di- and tripeptides. Estimation of the effects of charged groups on the pKa value of the imidazole ring. Biopolymers, 1976, 15, 393-401.	2.4	105
26	Structural Basis for Ca2+-regulated Muscle Relaxation at Interaction Sites of Troponin with Actin and Tropomyosin. Journal of Molecular Biology, 2005, 352, 178-201.	4.2	103
27	Structure of Alcaligenes faecalis Nitrite Reductase and a Copper Site Mutant, M150E, That Contains Zinc. Biochemistry, 1995, 34, 12107-12117.	2.5	102
28	Antihypertensive peptides from skimmed milk hydrolysate digested by cell-free extract of Lactobacillus helveticus JCM1004. Food Chemistry, 2005, 91, 123-129.	8.2	98
29	Calcium Binding to Calmodulin: Effects of Ionic Strength, Mg 2+ , pH and Temperature 1. Journal of Biochemistry, 1984, 95, 19-28.	1.7	97
30	Nondestructive Quantification of Organic Compounds in Whole Milk without Pretreatment by Two-Dimensional NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2007, 55, 4307-4311.	5.2	96
31	Infrared studies of interaction between metal ions and Ca2+-binding proteins Marker bands for identifying the types of coordination of the side-chain COOâ^'groups to metal ions in pike parvalbumin (pI = 4.10). FEBS Letters, 1994, 349, 84-88.	2.8	95
32	Structural basis for the Ca2+-enhanced thermostability and activity of PET-degrading cutinase-like enzyme from Saccharomonospora viridis AHK190. Applied Microbiology and Biotechnology, 2015, 99, 4297-4307.	3.6	95
33	Chymotryptic Subfragments of Troponin T from Rabbit Skeletal Muscle. Interaction with Tropomyosin, Troponin I and Troponin C1. Journal of Biochemistry, 1983, 93, 331-337.	1.7	94
34	Structure and Site-directed Mutagenesis of a Flavoprotein fromEscherichia coli That Reduces Nitrocompounds. Journal of Biological Chemistry, 2001, 276, 2816-2823.	3.4	89
35	Comprehensive NMR Analysis of Compositional Changes of Black Garlic during Thermal Processing. Journal of Agricultural and Food Chemistry, 2015, 63, 683-691.	5.2	89
36	Isolation of an Antihypertensive Peptide from Alcalase Digest of Spirulina platensis. Journal of Agricultural and Food Chemistry, 2010, 58, 7166-7171.	5.2	88

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37	1.8 Ã... crystal structure of the major NAD(P)H:FMN oxidoreductase of a bioluminescent bacterium, Vibrio fischeri: overall structure, cofactor and substrate-analog binding, and comparison with related flavoproteins. Journal of Molecular Biology, 1998, 280, 259-273.	4.2	86
38	Comparative study of catechin compositions in five Japanese persimmons (). Food Chemistry, 2005, 93, 149-152.	8.2	86
39	Autism spectrum disorder is related to endoplasmic reticulum stress induced by mutations in the synaptic cell adhesion molecule, CADM1. Cell Death and Disease, 2010, 1, e47-e47.	6.3	86
40	Discovery of a novel restriction endonuclease by genome comparison and application of a wheat-germ-based cell-free translation assay: PabI (5'-GTA/C) from the hyperthermophilic archaeon Pyrococcus abyssi. Nucleic Acids Research, 2005, 33, e112-e112.	14.5	84
41	The role of mtDNA mutations in the pathogenesis of age-related hearing loss in mice carrying a mutator DNA polymerase Î³. Neurobiology of Aging, 2008, 29, 1080-1092.	3.1	83
42	A Secreted Protein with Plant-Specific Cysteine-Rich Motif Functions as a Mannose-Binding Lectin That Exhibits Antifungal Activity Â. Plant Physiology, 2014, 166, 766-778.	4.8	83
43	The Solution Structure of Molt-inhibiting Hormone from the Kuruma Prawn Marsupenaeus japonicus. Journal of Biological Chemistry, 2003, 278, 9620-9623.	3.4	81
44	Complex mixture analysis of organic compounds in green coffee bean extract by twoâ€dimensional NMR spectroscopy. Magnetic Resonance in Chemistry, 2010, 48, 857-865.	1.9	81
45	Calaxin drives sperm chemotaxis by Ca ²⁺ -mediated direct modulation of a dynein motor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20497-20502.	7.1	80
46	Nondestructive Observation of Bovine Milk by NMR Spectroscopy:Â Analysis of Existing States of Compounds and Detection of New Compounds. Journal of Agricultural and Food Chemistry, 2004, 52, 4969-4974.	5.2	76
47	Isolation and Tyrosinase Inhibitory Effects of Polyphenols from the Leaves of Persimmon, Diospyros kaki. Journal of Agricultural and Food Chemistry, 2011, 59, 6011-6017.	5.2	76
48	Three-dimensional Structure of AzoR from Escherichia coli. Journal of Biological Chemistry, 2006, 281, 20567-20576.	3.4	75
49	Siamycin Attenuates fsr Quorum Sensing Mediated by a Gelatinase Biosynthesis-Activating Pheromone in Enterococcus faecalis. Journal of Bacteriology, 2007, 189, 1358-1365.	2.2	75
50	Homodimeric Structure and Double-stranded RNA Cleavage Activity of the C-terminal RNase III Domain of Human Dicer. Journal of Molecular Biology, 2007, 374, 106-120.	4.2	74
51	Structural analysis of HTL and D14 proteins reveals the basis for ligand selectivity in Striga. Nature Communications, 2018, 9, 3947.	12.8	73
52	Drastic Ca2+ sensitization of myofilament associated with a small structural change in troponin I in inherited restrictive cardiomyopathy. Biochemical and Biophysical Research Communications, 2005, 338, 1519-1526.	2.1	72
53	Aspartate Kinase-Independent Lysine Synthesis in an Extremely Thermophilic Bacterium, Thermus thermophilus : Lysine Is Synthesized via Î±-Aminoadipic Acid Not via Diaminopimelic Acid. Journal of Bacteriology, 1999, 181, 1713-1718.	2.2	72
54	Purification, characterization, and molecular gene cloning of an antifungal protein from Ginkgo biloba seeds. Biological Chemistry, 2007, 388, 273-80.	2.5	70

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55	Infrared spectroscopic study of the metal-coordination structures of calcium-binding proteins. Biochemical and Biophysical Research Communications, 2008, 369, 225-239.	2.1	68
56	Biological actions of green tea catechins on cardiac troponin C. British Journal of Pharmacology, 2010, 161, 1034-1043.	5.4	67
57	A pilot study of NMR-based sensory prediction of roasted coffee bean extracts. Food Chemistry, 2014, 152, 363-369.	8.2	64
58	NMR-based metabolomics for simultaneously evaluating multiple determinants of primary beef quality in Japanese Black cattle. Scientific Reports, 2017, 7, 1297.	3.3	62
59	Common Mechanism of Ligand Recognition by Group II/III WW Domains. Journal of Biological Chemistry, 2004, 279, 31833-31841.	3.4	61
60	Three-dimensional Solution Structure of an Archaeal FKBP with a Dual Function of Peptidyl Prolyl cisâ€“trans Isomerase and Chaperone-like Activities. Journal of Molecular Biology, 2003, 328, 1149-1160.	4.2	60
61	The Three-Dimensional Structure of Septum Site-Determining Protein MinD from Pyrococcus horikoshii OT3 in Complex with Mg-ADP. Structure, 2001, 9, 817-826.	3.3	58
62	Expansion of Substrate Specificity and Catalytic Mechanism of Azoreductase by X-ray Crystallography and Site-directed Mutagenesis. Journal of Biological Chemistry, 2008, 283, 13889-13896.	3.4	58
63	Metabolic Discrimination of Mango Juice from Various Cultivars by Band-Selective NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2012, 60, 1158-1166.	5.2	57
64	Studies on Protein-Protein Interaction between Copper-containing Nitrite Reductase and Pseudoazurin from Alcaligenes faecalis S-6. Journal of Biological Chemistry, 1996, 271, 13680-13683.	3.4	56
65	1H-NMR study on the tautomerism of the imidazole ring of histidine residues. BBA - Proteins and Proteomics, 1983, 742, 586-596.	2.1	55
66	Two-Dimensional ¹Hâ€“¹³C Nuclear Magnetic Resonance (NMR)-Based Comprehensive Analysis of Roasted Coffee Bean Extract. Journal of Agricultural and Food Chemistry, 2011, 59, 9065-9073.	5.2	53
67	A new target region for changing the substrate specificity of amine transaminases. Scientific Reports, 2015, 5, 10753.	3.3	53
68	Heat Capacity and Entropy Changes of Calmodulin Induced by Calcium Binding1. Journal of Biochemistry, 1984, 95, 643-649.	1.7	52
69	Different DNA-binding specificities of NLP and NIN transcription factors underlie nitrate-induced control of root nodulation. Plant Cell, 2021, 33, 2340-2359.	6.6	52
70	Conversion of NfsB, a minor Escherichia coli nitroreductase, to a flavin reductase similar in biochemical properties to FRase I, the major flavin reductase in Vibrio fischeri, by a single amino acid substitution. Journal of Bacteriology, 1996, 178, 4731-4733.	2.2	50
71	Methyl phenlactonoates are efficient strigolactone analogs with simple structure. Journal of Experimental Botany, 2018, 69, 2319-2331.	4.8	50
72	Optimization of the ultrafiltration-assisted extraction of Chinese yam polysaccharide using response surface methodology and its biological activity. International Journal of Biological Macromolecules, 2019, 121, 1186-1193.	7.5	50

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73	Structural basis for controlling the enzymatic properties of polymannuronate preferred alginate lyase FlAlyA from the PL-7 family. Chemical Communications, 2018, 54, 555-558.	4.1	49
74	Development of a Peptide Antagonist against fsr Quorum Sensing of Enterococcus faecalis. ACS Chemical Biology, 2013, 8, 804-811.	3.4	48
75	Determinants of Ligand Specificity in Groups I and IV WW Domains as Studied by Surface Plasmon Resonance and Model Building. Journal of Biological Chemistry, 2002, 277, 10173-10177.	3.4	47
76	Novel protein fold discovered in the PabI family of restriction enzymes. Nucleic Acids Research, 2007, 35, 1908-1918.	14.5	47
77	Structural basis of unique ligand specificity of KAI2-like protein from parasitic weed Striga hermonthica. Scientific Reports, 2016, 6, 31386.	3.3	47
78	Addition of Exogenous NAD+ Prevents Mefloquine-Induced Neuroaxonal and Hair Cell Degeneration through Reduction of Caspase-3-Mediated Apoptosis in Cochlear Organotypic Cultures. PLoS ONE, 2013, 8, e79817.	2.5	45
79	Effects of Long-Term Exercise on Age-Related Hearing Loss in Mice. Journal of Neuroscience, 2016, 36, 11308-11319.	3.6	45
80	Structural Characterization of the N-Linked Carbohydrate Chains of the Zona Pellucida Glycoproteins from Bovine Ovarian and Fertilized Eggs. FEBS Journal, 1996, 240, 448-453.	0.2	44
81	Crystal Structure and Desulfurization Mechanism of 2â€²-Hydroxybiphenyl-2-sulfinic Acid Desulfinase. Journal of Biological Chemistry, 2006, 281, 32534-32539.	3.4	44
82	Direct demonstration of the cross-bridge recovery stroke in muscle thick filaments in aqueous solution by using the hydration chamber. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17396-17401.	7.1	43
83	Proteinase Inhibitor from Ginkgo Seeds Is a Member of the Plant Nonspecific Lipid Transfer Protein Gene Family. Plant Physiology, 2008, 146, 1909-1919.	4.8	42
84	Conversion of NfsA, the Major Escherichia coli Nitroreductase, to a Flavin Reductase with an Activity Similar to That of Frp, a Flavin Reductase in Vibrio harveyi , by a Single Amino Acid Substitution. Journal of Bacteriology, 1998, 180, 422-425.	2.2	42
85	1H Nuclear Magnetic Resonance Titration Curves and Microenvironments of Aromatic Residues in Bovine Pancreatic Ribonuclease A. Journal of Biochemistry, 1983, 94, 51-61.	1.7	41
86	Crystal structure of ginkbilobinâ€2 with homology to the extracellular domain of plant cysteineâ€rich receptorâ€like kinases. Proteins: Structure, Function and Bioinformatics, 2009, 77, 247-251.	2.6	41
87	Purification and Characterization of NfrA1, aBacillus subtilisNitro/flavin Reductase Capable of Interacting with the Bacterial Luciferase. Bioscience, Biotechnology and Biochemistry, 1998, 62, 1978-1987.	1.3	40
88	Multiple Parallel-pathway Folding of Proline-free Staphylococcal Nuclease. Journal of Molecular Biology, 2003, 332, 1143-1153.	4.2	40
89	Redesign of a novel d-allulose 3-epimerase from Staphylococcus aureus for thermostability and efficient biocatalytic production of d-allulose. Microbial Cell Factories, 2019, 18, 59.	4.0	40
90	Triazole Ureas Covalently Bind to Strigolactone Receptor and Antagonize Strigolactone Responses. Molecular Plant, 2019, 12, 44-58.	8.3	40

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91	Purification and gene cloning of Fundulus heteroclitus hatching enzyme. A hatching enzyme system composed of high choriolytic enzyme and low choriolytic enzyme is conserved between two different teleosts, Fundulus heteroclitus and medaka Oryzias latipes. FEBS Journal, 2005, 272, 4315-4326.	4.7	39
92	Effects of Caloric Restriction on Age-Related Hearing Loss in Rodents and Rhesus Monkeys. Current Aging Science, 2010, 3, 20-25.	1.2	39
93	Crystal Structure of Zebrafish Hatching Enzyme 1 from the Zebrafish Danio rerio. Journal of Molecular Biology, 2010, 402, 865-878.	4.2	39
94	GSTA4 mediates reduction of cisplatin ototoxicity in female mice. Nature Communications, 2019, 10, 4150.	12.8	39
95	Solution Structure of Bromelain Inhibitor VI from Pineapple Stem:Â Structural Similarity with Bowmanâ˜'Birk Trypsin/Chymotrypsin Inhibitor from Soybeanâ€,â€¡. Biochemistry, 1996, 35, 5379-5384.	2.5	38
96	A panel set for epitope analysis of myeloperoxidase (MPO)-specific antineutrophil cytoplasmic antibody MPO-ANCA using recombinant hexamer histidine-tagged MPO deletion mutants. Journal of Clinical Immunology, 1998, 18, 142-152.	3.8	38
97	Coordination structures of Ca2+and Mg2+in Akazara scallop troponin C in solution. FEBS Journal, 2001, 268, 6284-6290.	0.2	38
98	Genes encoding mitochondrial respiratory chain components are profoundly down-regulated with aging in the cochlea of DBA/2J mice. Brain Research, 2007, 1182, 26-33.	2.2	38
99	Crystal Structure of Î³-Hexachlorocyclohexane Dehydrochlorinase LinA from Sphingobium japonicum UT26. Journal of Molecular Biology, 2010, 403, 260-269.	4.2	38
100	Functional heterologous expression and characterization of mannuronan C5-epimerase from the brown alga Saccharina japonica. Algal Research, 2016, 16, 282-291.	4.6	38
101	Structural bases of IMiD selectivity that emerges by 5-hydroxythalidomide. Nature Communications, 2020, 11, 4578.	12.8	38
102	A 26K Fragment of Troponin T from Rabbit Skeletal Muscle1. Journal of Biochemistry, 1984, 95, 1337-1342.	1.7	36
103	pH-Dependent Unfolding of Aspergillopepsin II Studied by Small-Angle X-ray Scatteringâ€. Biochemistry, 2000, 39, 1364-1372.	2.5	36
104	One-Week Antihypertensive Effect of Ile-Gln-Pro in Spontaneously Hypertensive Rats. Journal of Agricultural and Food Chemistry, 2011, 59, 559-563.	5.2	36
105	A Calorimetric Study of Ca2+- and Mg2+-Binding by Calmodulin1. Journal of Biochemistry, 1983, 94, 607-609.	1.7	34
106	Structure-Activity Relationship of Gelatinase Biosynthesis-Activating Pheromone of Enterococcus faecalis. Journal of Bacteriology, 2009, 191, 641-650.	2.2	34
107	Cooperative DNA-binding and sequence-recognition mechanism of aristaless and clawless. EMBO Journal, 2010, 29, 1613-1623.	7.8	34
108	Re-evaluation of the PBAN receptor molecule: characterization of PBANR variants expressed in the pheromone glands of moths. Frontiers in Endocrinology, 2012, 3, 6.	3.5	34

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109	Recombinant Porcine Zona Pellucida Glycoproteins Expressed in Sf9 Cells Bind to Bovine Sperm but Not to Porcine Sperm. Journal of Biological Chemistry, 2005, 280, 20189-20196.	3.4	33
110	Crystal Structures of the Short-Chain Flavin Reductase HpaC fromSulfolobus tokodaiiStrain 7 in Its Three States:Â NAD(P)+-Free, NAD+-Bound, and NADP+-Boundâ€,â€¡. Biochemistry, 2006, 45, 5103-5110.	2.5	33
111	Improvement in Quality of Protein Crystals Grown in a High Magnetic Field Gradient. Crystal Growth and Design, 2012, 12, 1141-1150.	3.0	33
112	The Flavoenzyme Azobenzene Reductase AzoR from Escherichia coli Binds Roseoflavin Mononucleotide (RoFMN) with High Affinity and Is Less Active in Its RoFMN Form. Biochemistry, 2013, 52, 4288-4295.	2.5	33
113	A sequence-specific DNA glycosylase mediates restriction-modification in Pyrococcus abyssi. Nature Communications, 2014, 5, 3178.	12.8	33
114	Chemical Changes in the Components of Coffee Beans during Roasting. , 2015, , 83-91.		33
115	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. ACS Chemical Biology, 2017, 12, 558-563.	3.4	33
116	Loss of IDH2 Accelerates Age-related Hearing Loss in Male Mice. Scientific Reports, 2018, 8, 5039.	3.3	33
117	Structural basis for brassinosteroid response by BIL1/BZR1. Nature Plants, 2018, 4, 771-776.	9.3	33
118	Steady-State Properties of Calcium Binding to Parvalbumins from Bullfrog Skeletal Muscle: Effects of Mg2+ pH, Ionic Strength, and Temperature1. Journal of Biochemistry, 1986, 99, 73-80.	1.7	32
119	Crystal structures of apoâ€DszC and FMNâ€bound DszC from RhodococcusÂerythropolis Dâ€1. FEBS Journal, 2015, 282, 3126-3135.	4.7	32
120	Effects of different modification methods on the physicochemical and rheological properties of Chinese yam (Dioscorea opposita Thunb.) starch. LWT - Food Science and Technology, 2019, 116, 108513.	5.2	32
121	Biochemical characterization and biocatalytic application of a novel d-tagatose 3-epimerase from Sinorhizobium sp.. RSC Advances, 2019, 9, 2919-2927.	3.6	32
122	Phosphorylation of proteins by dry-heating in the presence of pyrophosphate and some characteristics of introduced phosphate groups. Food Chemistry, 2009, 114, 1036-1041.	8.2	31
123	A comparative study of the binding effects of Mg2+, Ca2+, Sr2+, and Cd2+ on calmodulin by fourier-transform infrared spectroscopy. Biospectroscopy, 1995, 1, 47-54.	0.6	30
124	Improvement of 2â€²-Hydroxybiphenyl-2-sulfinate Desulfinase, an Enzyme Involved in the Dibenzothiophene Desulfurization Pathway, fromRhodococcus erythropolisKA2-5-1 by Site-Directed Mutagenesis. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2815-2821.	1.3	30
125	Enzymes useful for chiral compound synthesis: structural biology, directed evolution, and protein engineering for industrial use. Applied Microbiology and Biotechnology, 2016, 100, 5747-5757.	3.6	30
126	Chymotryptic Subfragments of Troponin T from Rabbit Skeletal Muscle. I. Determination of the Primary Structure1. Journal of Biochemistry, 1982, 91, 1257-1265.	1.7	29

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127	Multiplication of a restriction-modification gene complex. Molecular Microbiology, 2003, 48, 417-427.	2.5	29
128	Structural Basis for Cyclization Specificity of Two Azotobacter Type III Polyketide Synthases. Journal of Biological Chemistry, 2013, 288, 34146-34157.	3.4	29
129	Studies of the structure of multiferric ion-bound lactoferrin: A new antianemic edible material. International Dairy Journal, 2008, 18, 1051-1056.	3.0	28
130	Substrate Recognition Mechanism and Substrate-Dependent Conformational Changes of an ROK Family Glucokinase from Streptomyces griseus. Journal of Bacteriology, 2012, 194, 607-616.	2.2	28
131	NMR STUDY ON THE PROTONATION OF IMIDAZOLE RING OFN-ACETYL-L-HISTIDINE METHYLAMIDE, A MODEL FOR HISTIDINE RESIDUES EXPOSED TO AQUEOUS SOLVENT. Chemistry Letters, 1978, 7, 739-742.	1.3	27
132	Kinetic Studies of Calcium Binding to Parvalbumins from Bullfrog Skeletal Muscle1. Journal of Biochemistry, 1986, 99, 81-89.	1.7	27
133	Site-directed mutagenesis of azurin fromPseudomonas aeruginosaenhances the formation of an electron-transfer complex with a copper-containing nitrite reductase fromAlcaligenes faecalisS-6. FEBS Letters, 1996, 394, 87-90.	2.8	27
134	Isolation and Caenorhabditis elegans Lifespan Assay of Flavonoids from Onion. Journal of Agricultural and Food Chemistry, 2011, 59, 5927-5934.	5.2	27
135	The structure of brazzein, a sweet-tasting protein from the wild African plantPentadiplandra brazzeana. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 642-647.	2.5	27
136	Rationally Designed Strigolactone Analogs as Antagonists of the D14 Receptor. Plant and Cell Physiology, 2018, 59, 1545-1554.	3.1	27
137	Studies on the regulatory mechanism of isocitrate dehydrogenase 2 using acetylation mimics. Scientific Reports, 2017, 7, 9785.	3.3	26
138	Antioxidant properties and inhibition of angiotensin-converting enzyme by highly active peptides from wheat gluten. Scientific Reports, 2021, 11, 5206.	3.3	26
139	A calorimetric study of Ca2+ binding to two major isotypes of bullfrog parvalbumin. FEBS Letters, 1985, 185, 165-169.	2.8	25
140	A calorimetric study of Ca2+ binding by the parvalbumin of the toad (Bufo): distinguishable binding sites in the molecule. FEBS Letters, 1986, 209, 77-82.	2.8	25
141	Crystal structure of the PIN domain of human telomeraseâ€associated protein EST1A. Proteins: Structure, Function and Bioinformatics, 2007, 68, 980-989.	2.6	25
142	Electron microscopic evidence for the myosin head lever arm mechanism in hydrated myosin filaments using the gas environmental chamber. Biochemical and Biophysical Research Communications, 2011, 405, 651-656.	2.1	25
143	Cloning of genes and enzymatic characterizations of novel dioscorin isoforms from Dioscorea japonica. Plant Science, 2012, 183, 14-19.	3.6	25
144	Control of the localization and function of a miRNA silencing component TNRC6A by Argonaute protein. Nucleic Acids Research, 2015, 43, gkv1026.	14.5	25

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145	Phosphorus nuclear magnetic resonance studies on the effect of duration of contraction in bullâ€frog skeletal muscles.. Journal of Physiology, 1988, 407, 243-261.	2.9	24
146	Comparative studies on the functional roles of N- and C-terminal regions of molluskan and vertebrate troponin-I. FEBS Journal, 2005, 272, 4475-4486.	4.7	24
147	Recombinant bovine zona pellucida glycoproteins ZP3 and ZP4 coexpressed in Sf9 cells form a spermâ€binding active heteroâ€complex. FEBS Journal, 2007, 274, 5390-5405.	4.7	24
148	Separation and characterization of the colored material from sugarcane molasses. Chemosphere, 2008, 71, 1730-1737.	8.2	24
149	Structure of the histone chaperone CIA/ASF1â€“double bromodomain complex linking histone modifications and site-specific histone eviction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8153-8158.	7.1	24
150	An Engineered Old Yellow Enzyme that Enables Efficient Synthesis of (4R,6R)â€Actinol in a Oneâ€Pot Reduction System. ChemBioChem, 2015, 16, 440-445.	2.6	24
151	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. Journal of Biological Chemistry, 2017, 292, 2182-2190.	3.4	24
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