

Masaru Tanokura

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496 papers	13,756 citations	54 h-index	102 g-index
516 ext. papers	15,547 ext. citations	5.1 avg, IF	6.1 L-index

#	Paper	IF	Citations
496	Mitochondrial DNA mutations, oxidative stress, and apoptosis in mammalian aging. <i>Science</i> , 2005 , 309, 481-4	33.3	1573
495	Sirt3 mediates reduction of oxidative damage and prevention of age-related hearing loss under caloric restriction. <i>Cell</i> , 2010 , 143, 802-12	56.2	860
494	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
493	Structural basis of abscisic acid signalling. <i>Nature</i> , 2009 , 462, 609-14	50.4	406
492	Arabidopsis DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression. <i>Plant Cell</i> , 2008 , 20, 1693-707	11.6	361
491	Synergistic activation of the Arabidopsis NADPH oxidase AtrbohD by Ca ²⁺ and phosphorylation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8885-92	5.4	344
490	Molecular mechanism of strigolactone perception by DWARF14. <i>Nature Communications</i> , 2013 , 4, 2613	17.4	245
489	Age-related hearing loss in C57BL/6J mice is mediated by Bak-dependent mitochondrial apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19432-7	11.5	238
488	Mitochondrial DNA mutations induce mitochondrial dysfunction, apoptosis and sarcopenia in skeletal muscle of mitochondrial DNA mutator mice. <i>PLoS ONE</i> , 2010 , 5, e11468	3.7	196
487	A novel Ca ²⁺ -activated, thermostabilized polyesterase capable of hydrolyzing polyethylene terephthalate from <i>Saccharomonospora viridis</i> AHK190. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 10053-64	5.7	155
486	Biochemical characterization of NfsA, the <i>Escherichia coli</i> major nitroreductase exhibiting a high amino acid sequence homology to Frp, a <i>Vibrio harveyi</i> flavin oxidoreductase. <i>Journal of Bacteriology</i> , 1996 , 178, 4508-14	3.5	154
485	Single-molecule paleoenzymology probes the chemistry of resurrected enzymes. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 592-6	17.6	149
484	Crystal structure of the terminal oxygenase component of biphenyl dioxygenase derived from <i>Rhodococcus</i> sp. strain RHA1. <i>Journal of Molecular Biology</i> , 2004 , 342, 1041-52	6.5	127
483	Structure and function of abscisic acid receptors. <i>Trends in Plant Science</i> , 2013 , 18, 259-66	13.1	126
482	Gene cloning, purification, and characterization of NfsB, a minor oxygen-insensitive nitroreductase from <i>Escherichia coli</i> , similar in biochemical properties to FRase I, the major flavin reductase in <i>Vibrio fischeri</i> . <i>Journal of Biochemistry</i> , 1996 , 120, 736-44	3.1	119
481	Experimental evidence for the thermophilicity of ancestral life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11067-72	11.5	112
480	Optimisation of hydrolysis conditions for the production of the angiotensin-I converting enzyme (ACE) inhibitory peptides from whey protein using response surface methodology. <i>Food Chemistry</i> , 2009 , 114, 328-333	8.5	111

479	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
478	Caloric restriction suppresses apoptotic cell death in the mammalian cochlea and leads to prevention of presbycusis. <i>Neurobiology of Aging</i> , 2007 , 28, 1613-22	5.6	103
477	¹ H-NMR study on the tautomerism of the imidazole ring of histidine residues. I. Microscopic pK values and molar ratios of tautomers in histidine-containing peptides. <i>BBA - Proteins and Proteomics</i> , 1983 , 742, 576-85		103
476	Role of mitochondrial dysfunction and mitochondrial DNA mutations in age-related hearing loss. <i>Hearing Research</i> , 2007 , 226, 185-93	3.9	101
475	Structural basis for Ca ²⁺ -regulated muscle relaxation at interaction sites of troponin with actin and tropomyosin. <i>Journal of Molecular Biology</i> , 2005 , 352, 178-201	6.5	98
474	Three-dimensional solution structure of oryzacystatin-I, a cysteine proteinase inhibitor of the rice, <i>Oryza sativa</i> L. japonica. <i>Biochemistry</i> , 2000 , 39, 14753-60	3.2	97
473	¹ H nuclear magnetic resonance studies of histidine-containing di- and tripeptides. Estimation of the effects of charged groups on the pK _a value of the imidazole ring. <i>Biopolymers</i> , 1976 , 15, 393-401	2.2	96
472	Antihypertensive peptides from skimmed milk hydrolysate digested by cell-free extract of <i>Lactobacillus helveticus</i> JCM1004. <i>Food Chemistry</i> , 2005 , 91, 123-129	8.5	93
471	Structure of <i>Alcaligenes faecalis</i> nitrite reductase and a copper site mutant, M150E, that contains zinc. <i>Biochemistry</i> , 1995 , 34, 12107-17	3.2	92
470	(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
469	Calcium binding to calmodulin: effects of ionic strength, Mg ²⁺ , pH and temperature. <i>Journal of Biochemistry</i> , 1984 , 95, 19-28	3.1	86
468	Nondestructive quantification of organic compounds in whole milk without pretreatment by two-dimensional NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 4307-11	5.7	84
467	Chymotryptic subfragments of troponin T from rabbit skeletal muscle. Interaction with tropomyosin, troponin I and troponin C. <i>Journal of Biochemistry</i> , 1983 , 93, 331-7	3.1	83
466	Infrared studies of interaction between metal ions and Ca(2+)-binding proteins. Marker bands for identifying the types of coordination of the side-chain COO ⁻ groups to metal ions in pike parvalbumin (pI = 4.10). <i>FEBS Letters</i> , 1994 , 349, 84-8	3.8	81
465	Isolation of an antihypertensive peptide from alcalase digest of <i>Spirulina platensis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 7166-71	5.7	80
464	Coordination to divalent cations by calcium-binding proteins studied by FTIR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 2319-27	3.8	77
463	Structure and site-directed mutagenesis of a flavoprotein from <i>Escherichia coli</i> that reduces nitrocompounds: alteration of pyridine nucleotide binding by a single amino acid substitution. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2816-23	5.4	76
462	1.8 Å crystal structure of the major NAD(P)H:FMN oxidoreductase of a bioluminescent bacterium, <i>Vibrio fischeri</i> : overall structure, cofactor and substrate-analog binding, and comparison with related flavoproteins. <i>Journal of Molecular Biology</i> , 1998 , 280, 259-73	6.5	74

- 461 Structural basis for the Ca(2+)-enhanced thermostability and activity of PET-degrading cutinase-like enzyme from *Saccharomonospora viridis* AHK190. *Applied Microbiology and Biotechnology*, **2015**, 99, 4297-307 5.7 70
- 460 The role of mtDNA mutations in the pathogenesis of age-related hearing loss in mice carrying a mutator DNA polymerase gamma. *Neurobiology of Aging*, **2008**, 29, 1080-92 5.6 70
- 459 The solution structure of molt-inhibiting hormone from the Kuruma prawn *Marsupenaeus japonicus*. *Journal of Biological Chemistry*, **2003**, 278, 9620-3 5.4 70
- 458 Comparative study of catechin compositions in five Japanese persimmons (). *Food Chemistry*, **2005**, 93, 149-152 8.5 70
- 457 Discovery of a novel restriction endonuclease by genome comparison and application of a wheat-germ-based cell-free translation assay: PabI (5MGTA/C) from the hyperthermophilic archaeon *Pyrococcus abyssi*. *Nucleic Acids Research*, **2005**, 33, e112 20.1 67
- 456 Homodimeric structure and double-stranded RNA cleavage activity of the C-terminal RNase III domain of human dicer. *Journal of Molecular Biology*, **2007**, 374, 106-20 6.5 66
- 455 Complex mixture analysis of organic compounds in green coffee bean extract by two-dimensional NMR spectroscopy. *Magnetic Resonance in Chemistry*, **2010**, 48, 857-65 2.1 65
- 454 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, 1519-26 3.4 65
- 453 Comprehensive NMR analysis of compositional changes of black garlic during thermal processing. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 683-91 5.7 64
- 452 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 9.8 64
- 451 Siamycin attenuates fsr quorum sensing mediated by a gelatinase biosynthesis-activating pheromone in *Enterococcus faecalis*. *Journal of Bacteriology*, **2007**, 189, 1358-65 3.5 64
- 450 Aspartate kinase-independent lysine synthesis in an extremely thermophilic bacterium, *Thermus thermophilus*: lysine is synthesized via alpha-aminoadipic acid not via diaminopimelic acid. *Journal of Bacteriology*, **1999**, 181, 1713-8 3.5 64
- 449 Three-dimensional structure of AzoR from *Escherichia coli*. An oxidoreductase conserved in microorganisms. *Journal of Biological Chemistry*, **2006**, 281, 20567-76 5.4 63
- 448 Nondestructive observation of bovine milk by NMR spectroscopy: analysis of existing States of compounds and detection of new compounds. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 4969-74 5.7 61
- 447 Calaxin drives sperm chemotaxis by Ca²⁺-mediated direct modulation of a dynein motor. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20497-502 11.5 60
- 446 Isolation and tyrosinase inhibitory effects of polyphenols from the leaves of persimmon, *Diospyros kaki*. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6011-7 5.7 59
- 445 Infrared spectroscopic study of the metal-coordination structures of calcium-binding proteins. *Biochemical and Biophysical Research Communications*, **2008**, 369, 225-39 3.4 57
- 444 Three-dimensional solution structure of an archaeal FKBP with a dual function of peptidyl prolyl cis-trans isomerase and chaperone-like activities. *Journal of Molecular Biology*, **2003**, 328, 1149-60 6.5 56

443	The three-dimensional structure of septum site-determining protein MinD from <i>Pyrococcus horikoshii</i> OT3 in complex with Mg-ADP. <i>Structure</i> , 2001 , 9, 817-26	5.2	56
442	Purification, characterization, and molecular gene cloning of an antifungal protein from <i>Ginkgo biloba</i> seeds. <i>Biological Chemistry</i> , 2007 , 388, 273-80	4.5	53
441	Common mechanism of ligand recognition by group II/III WW domains: redefining their functional classification. <i>Journal of Biological Chemistry</i> , 2004 , 279, 31833-41	5.4	53
440	Expansion of substrate specificity and catalytic mechanism of azoreductase by X-ray crystallography and site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 13889-96	5.4	52
439	Biological actions of green tea catechins on cardiac troponin C. <i>British Journal of Pharmacology</i> , 2010 , 161, 1034-43	8.6	51
438	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
437	Studies on protein-protein interaction between copper-containing nitrite reductase and pseudoazurin from <i>Alcaligenes faecalis</i> S-6. <i>Journal of Biological Chemistry</i> , 1996 , 271, 13680-3	5.4	49
436	Heat capacity and entropy changes of calmodulin induced by calcium binding. <i>Journal of Biochemistry</i> , 1984 , 95, 643-9	3.1	48
435	A pilot study of NMR-based sensory prediction of roasted coffee bean extracts. <i>Food Chemistry</i> , 2014 , 152, 363-9	8.5	47
434	Novel protein fold discovered in the PabI family of restriction enzymes. <i>Nucleic Acids Research</i> , 2007 , 35, 1908-18	20.1	45
433	Conversion of NfsB, a minor <i>Escherichia coli</i> nitroreductase, to a flavin reductase similar in biochemical properties to FRase I, the major flavin reductase in <i>Vibrio fischeri</i> , by a single amino acid substitution. <i>Journal of Bacteriology</i> , 1996 , 178, 4731-3	3.5	44
432	¹ H-NMR study on the tautomerism of the imidazole ring of histidine residues. II. Microenvironments of histidine-12 and histidine-119 of bovine pancreatic ribonuclease A. <i>BBA - Proteins and Proteomics</i> , 1983 , 742, 586-96		44
431	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
430	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
429	Two-dimensional ¹ H- ¹³ C 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
428	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
427	Determinants of ligand specificity in groups I and IV WW domains as studied by surface plasmon resonance and model building. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10173-7	5.4	41
426	Development of a peptide antagonist against fsr quorum sensing of <i>Enterococcus faecalis</i> . <i>ACS Chemical Biology</i> , 2013 , 8, 804-11	4.9	40

425	Multiple parallel-pathway folding of proline-free Staphylococcal nuclease. <i>Journal of Molecular Biology</i> , 2003 , 332, 1143-53	6.5	40
424	Addition of exogenous NAD ⁺ prevents mefloquine-induced neuroaxonal and hair cell degeneration through reduction of caspase-3-mediated apoptosis in cochlear organotypic cultures. <i>PLoS ONE</i> , 2013 , 8, e79817	3.7	39
423	Structural characterization of the N-linked carbohydrate chains of the zona pellucida glycoproteins from bovine ovarian and fertilized eggs. <i>FEBS Journal</i> , 1996 , 240, 448-53		39
422	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
421	Structural basis for controlling the enzymatic properties of polymannuronate preferred alginate lyase FLAlyA from the PL-7 family. <i>Chemical Communications</i> , 2018 , 54, 555-558	5.8	37
420	Purification and characterization of NfrA1, a <i>Bacillus subtilis</i> nitro/flavin reductase capable of interacting with the bacterial luciferase. <i>Bioscience, Biotechnology and Biochemistry</i> , 1998 , 62, 1978-87	2.1	37
419	A new target region for changing the substrate specificity of amine transaminases. <i>Scientific Reports</i> , 2015 , 5, 10753	4.9	36
418	Effects of caloric restriction on age-related hearing loss in rodents and rhesus monkeys. <i>Current Aging Science</i> , 2010 , 3, 20-5	2.2	36
417	Purification and gene cloning of <i>Fundulus heteroclitus</i> hatching enzyme. A hatching enzyme system composed of high choriolytic enzyme and low choriolytic enzyme is conserved between two different teleosts, <i>Fundulus heteroclitus</i> and medaka <i>Oryzias latipes</i> . <i>FEBS Journal</i> , 2005 , 272, 4315-26	5.7	36
416	Conversion of NfsA, the major <i>Escherichia coli</i> nitroreductase, to a flavin reductase with an activity similar to that of Frp, a flavin reductase in <i>Vibrio harveyi</i> , by a single amino acid substitution. <i>Journal of Bacteriology</i> , 1998 , 180, 422-5	3.5	36
415	Crystal structure and desulfurization mechanism of 2-Mhydroxybiphenyl-2-sulfinic acid desulfinase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32534-9	5.4	35
414	Coordination structures of Ca ²⁺ and Mg ²⁺ in Akazara scallop troponin C in solution. FTIR spectroscopy of side-chain COO ⁻ groups. <i>FEBS Journal</i> , 2001 , 268, 6284-90		35
413	One-week antihypertensive effect of Ile-Gln-Pro in spontaneously hypertensive rats. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 559-63	5.7	34
412	Proteinase inhibitor from ginkgo seeds is a member of the plant nonspecific lipid transfer protein gene family. <i>Plant Physiology</i> , 2008 , 146, 1909-19	6.6	34
411	Direct demonstration of the cross-bridge recovery stroke in muscle thick filaments in aqueous solution by using the hydration chamber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17396-401	11.5	34
410	pH-dependent unfolding of aspergillopepsin II studied by small-angle X-ray scattering. <i>Biochemistry</i> , 2000 , 39, 1364-72	3.2	34
409	Solution structure of bromelain inhibitor IV from pineapple stem: structural similarity with Bowman-Birk trypsin/chymotrypsin inhibitor from soybean. <i>Biochemistry</i> , 1996 , 35, 5379-84	3.2	34
408	Crystal structure of Hexachlorocyclohexane Dehydrochlorinase LinA from <i>Sphingobium japonicum</i> UT26. <i>Journal of Molecular Biology</i> , 2010 , 403, 260-9	6.5	33

407	A 26K fragment of troponin T from rabbit skeletal muscle. <i>Journal of Biochemistry</i> , 1984 , 95, 1337-42	3.1	33
406	Crystal structure of zebrafish hatching enzyme 1 from the zebrafish <i>Danio rerio</i> . <i>Journal of Molecular Biology</i> , 2010 , 402, 865-78	6.5	32
405	A calorimetric study of Ca ²⁺ - and Mg ²⁺ -binding by calmodulin. <i>Journal of Biochemistry</i> , 1983 , 94, 607-9	3.1	32
404	Structure-activity relationship of gelatinase biosynthesis-activating pheromone of <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2009 , 191, 641-50	3.5	31
403	Genes encoding mitochondrial respiratory chain components are profoundly down-regulated with aging in the cochlea of DBA/2J mice. <i>Brain Research</i> , 2007 , 1182, 26-33	3.7	31
402	Crystal structures of the short-chain flavin reductase HpaC from <i>Sulfolobus tokodaii</i> strain 7 in its three states: NAD(P)(+)(-)-free, NAD(+)(-)-bound, and NADP(+)(-)-bound. <i>Biochemistry</i> , 2006 , 45, 5103-10	3.2	31
401	Effects of Long-Term Exercise on Age-Related Hearing Loss in Mice. <i>Journal of Neuroscience</i> , 2016 , 36, 11308-11319	6.6	30
400	Re-Evaluation of the PBAN Receptor Molecule: Characterization of PBANR Variants Expressed in the Pheromone Glands of Moths. <i>Frontiers in Endocrinology</i> , 2012 , 3, 6	5.7	30
399	A comparative study of the binding effects of Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , and Cd ²⁺ on calmodulin by fourier-transform infrared spectroscopy. <i>Biospectroscopy</i> , 1995 , 1, 47-54		30
398	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
397	Improvement of 2-Hydroxybiphenyl-2-sulfinate desulfinate, an enzyme involved in the dibenzothiophene desulfurization pathway, from <i>Rhodococcus erythropolis</i> KA2-5-1 by site-directed mutagenesis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 2815-21	2.1	29
396	Recombinant porcine zona pellucida glycoproteins expressed in Sf9 cells bind to bovine sperm but not to porcine sperm. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20189-96	5.4	29
395	¹ H nuclear magnetic resonance titration curves and microenvironments of aromatic residues in bovine pancreatic ribonuclease A. <i>Journal of Biochemistry</i> , 1983 , 94, 51-62	3.1	29
394	Optimization of the ultrafiltration-assisted extraction of Chinese yam polysaccharide using response surface methodology and its biological activity. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 1186-1193	7.9	29
393	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. <i>ACS Chemical Biology</i> , 2017 , 12, 558-563	4.9	28
392	Redesign of a novel D-allulose 3-epimerase from <i>Staphylococcus aureus</i> for thermostability and efficient biocatalytic production of D-allulose. <i>Microbial Cell Factories</i> , 2019 , 18, 59	6.4	28
391	A panel set for epitope analysis of myeloperoxidase (MPO)-specific antineutrophil cytoplasmic antibody MPO-ANCA using recombinant hexamer histidine-tagged MPO deletion mutants. <i>Journal of Clinical Immunology</i> , 1998 , 18, 142-52	5.7	28
390	The flavoenzyme azobenzene reductase AzoR from <i>Escherichia coli</i> binds roseoflavin mononucleotide (RoFMN) with high affinity and is less active in its RoFMN form. <i>Biochemistry</i> , 2013 , 52, 4288-95	3.2	27

389	Functional heterologous expression and characterization of mannuronan C5-epimerase from the brown alga <i>Saccharina japonica</i> . <i>Algal Research</i> , 2016 , 16, 282-291	5	26
388	Phosphorylation of proteins by dry-heating in the presence of pyrophosphate and some characteristics of introduced phosphate groups. <i>Food Chemistry</i> , 2009 , 114, 1036-1041	8.5	26
387	Multiplication of a restriction-modification gene complex. <i>Molecular Microbiology</i> , 2003 , 48, 417-27	4.1	26
386	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
385	Improvement in Quality of Protein Crystals Grown in a High Magnetic Field Gradient. <i>Crystal Growth and Design</i> , 2012 , 12, 1141-1150	3.5	25
384	Steady-state properties of calcium binding to parvalbumins from bullfrog skeletal muscle: effects of Mg ²⁺ , pH, ionic strength, and temperature. <i>Journal of Biochemistry</i> , 1986 , 99, 73-80	3.1	25
383	Chymotryptic subfragments of troponin T from rabbit skeletal muscle. I. Determination of the primary structure. <i>Journal of Biochemistry</i> , 1982 , 91, 1257-65	3.1	25
382	NMR STUDY ON THE PROTONATION OF IMIDAZOLE RING OF N-ACETYL-L-HISTIDINE METHYLAMIDE, A MODEL FOR HISTIDINE RESIDUES EXPOSED TO AQUEOUS SOLVENT. <i>Chemistry Letters</i> , 1978 , 7, 739-742	1.7	25
381	Methyl phenlactonoates are efficient strigolactone analogs with simple structure. <i>Journal of Experimental Botany</i> , 2018 , 69, 2319-2331	7	25
380	Biochemical characterization and biocatalytic application of a novel d-tagatose 3-epimerase from <i>sp.</i> . <i>RSC Advances</i> , 2019 , 9, 2919-2927	3.7	24
379	Comparative studies on the functional roles of N- and C-terminal regions of molluscan and vertebrate troponin-I. <i>FEBS Journal</i> , 2005 , 272, 4475-86	5.7	24
378	Kinetic studies of calcium binding to parvalbumins from bullfrog skeletal muscle. <i>Journal of Biochemistry</i> , 1986 , 99, 81-9	3.1	24
377	A sequence-specific DNA glycosylase mediates restriction-modification in <i>Pyrococcus abyssi</i> . <i>Nature Communications</i> , 2014 , 5, 3178	17.4	23
376	Cooperative DNA-binding and sequence-recognition mechanism of aristaless and clawless. <i>EMBO Journal</i> , 2010 , 29, 1613-23	13	23
375	Structure of the histone chaperone CIA/ASF1-double bromodomain complex linking histone modifications and site-specific histone eviction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8153-8	11.5	23
374	Isolation and <i>Caenorhabditis elegans</i> lifespan assay of flavonoids from onion. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 5927-34	5.7	23
373	Studies of the structure of multiferric ion-bound lactoferrin: A new antianemic edible material. <i>International Dairy Journal</i> , 2008 , 18, 1051-1056	3.5	23
372	Site-directed mutagenesis of azurin from <i>Pseudomonas aeruginosa</i> enhances the formation of an electron-transfer complex with a copper-containing nitrite reductase from <i>Alcaligenes faecalis</i> S-6. <i>FEBS Letters</i> , 1996 , 394, 87-90	3.8	23

371	Triazole Ureas Covalently Bind to Strigolactone Receptor and Antagonize Strigolactone Responses. <i>Molecular Plant</i> , 2019 , 12, 44-58	14.4	23
370	Crystal structures of apo-DszC and FMN-bound DszC from <i>Rhodococcus erythropolis</i> D-1. <i>FEBS Journal</i> , 2015 , 282, 3126-35	5.7	22
369	Structural basis for cyclization specificity of two <i>Azotobacter</i> type III polyketide synthases: a single amino acid substitution reverses their cyclization specificity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 34146-34157	5.4	22
368	Separation and characterization of the colored material from sugarcane molasses. <i>Chemosphere</i> , 2008 , 71, 1730-7	8.4	22
367	Crystal structure of the PIN domain of human telomerase-associated protein EST1A. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 68, 980-9	4.2	22
366	A calorimetric study of Ca ²⁺ binding by the parvalbumin of the toad (<i>Bufo</i>): distinguishable binding sites in the molecule. <i>FEBS Letters</i> , 1986 , 209, 77-82	3.8	22
365	The effect of acyclic retinoid on the metabolomic profiles of hepatocytes and hepatocellular carcinoma cells. <i>PLoS ONE</i> , 2013 , 8, e82860	3.7	22
364	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
363	Loss of IDH2 Accelerates Age-related Hearing Loss in Male Mice. <i>Scientific Reports</i> , 2018 , 8, 5039	4.9	21
362	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
361	The structure of brazzein, a sweet-tasting protein from the wild African plant <i>Pentadiplandra brazzeana</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 642-7		21
360	GSTA4 mediates reduction of cisplatin ototoxicity in female mice. <i>Nature Communications</i> , 2019 , 10, 4150	7.4	20
359	Effects of different modification methods on the physicochemical and rheological properties of Chinese yam (<i>Dioscorea opposita</i> Thunb.) starch. <i>LWT - Food Science and Technology</i> , 2019 , 116, 108513	5.4	20
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