Motomasa Tanaka

List of Publications by Year
in descending order

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52 papers	5,139 citations	186209 28 h-index	197736 49 g-index
54 all docs	54 docs citations	54 times ranked	5590 citing authors

#	Article	IF	Citations
1	Conformational variations in an infectious protein determine prion strain differences. Nature, 2004, 428, 323-328.	13.7	747
2	Trehalose alleviates polyglutamine-mediated pathology in a mouse model of Huntington disease. Nature Medicine, 2004, 10, 148-154.	15.2	701
3	The physical basis of how prion conformations determine strain phenotypes. Nature, 2006, 442, 585-589.	13.7	552
4	Polyglutamine length-dependent interaction of Hsp40 and Hsp70 family chaperones with truncated N-terminal huntingtin: their role in suppression of aggregation and cellular toxicity. Human Molecular Genetics, 2000, 9, 2009-2018.	1.4	386
5	AÎ² Secretion and Plaque Formation Depend on Autophagy. Cell Reports, 2013, 5, 61-69.	2.9	386
6	Eukaryotic Proteasomes Cannot Digest Polyglutamine Sequences and Release Them during Degradation of Polyglutamine-Containing Proteins. Molecular Cell, 2004, 14, 95-104.	4.5	363
7	A Yeast Prion, Mod5, Promotes Acquired Drug Resistance and Cell Survival Under Environmental Stress. Science, 2012, 336, 355-359.	6.0	210
8	Distinct conformations of in vitro and in vivo amyloids of huntingtin-exon1 show different cytotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9679-9684.	3.3	201
9	Mechanism of Cross-Species Prion Transmission. Cell, 2005, 121, 49-62.	13.5	172
10	Intra- and Intermolecular Î²-Pleated Sheet Formation in Glutamine-repeat Inserted Myoglobin as a Model for Polyglutamine Diseases. Journal of Biological Chemistry, 2001, 276, 45470-45475.	1.6	97
11	Catalytic Roles of the Distal Site Asparagineâ^'Histidine Couple in Peroxidasesâ€. Biochemistry, 1996, 35, 14251-14258.	1.2	94
12	Analysis of induced pluripotent stem cells carrying 22q11.2 deletion. Translational Psychiatry, 2016, 6, e934-e934.	2.4	85
13	Effects of Concerted Hydrogen Bonding of Distal Histidine on Active Site Structures of Horseradish Peroxidase. Resonance Raman Studies with Asn70 Mutants. Journal of the American Chemical Society, 1997, 119, 1758-1766.	6.6	81
14	A novel therapeutic strategy for polyglutamine diseases by stabilizing aggregation-prone proteins with small molecules. Journal of Molecular Medicine, 2005, 83, 343-352.	1.7	76
15	Direct electron transfer catalysed by recombinant forms of horseradish peroxidase: insight into the mechanism. Electrochemistry Communications, 1999, 1, 171-175.	2.3	70
16	Differences in prion strain conformations result from non-native interactions in a nucleus. Nature Chemical Biology, 2010, 6, 225-230.	3.9	70
17	Autophagy-Related Protein 7 Deficiency in Amyloid Î² (AÎ²) Precursor Protein Transgenic Mice Decreases AÎ² in the Multivesicular Bodies and Induces AÎ² Accumulation in the Golgi. American Journal of Pathology, 2015, 185, 305-313.	1.9	70
18	Activation of Hydrogen Peroxide in Horseradish Peroxidase Occurs within â^¼200Î¼s Observed by a New Freeze-Quench Device. Biophysical Journal, 2003, 84, 1998-2004.	0.2	54

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19	Biochemical and Functional Analysis of the Assembly of Full-length Sup35p and Its Prion-forming Domain. Journal of Biological Chemistry, 2007, 282, 1679-1686.	1.6	49
20	Expansion of Polyglutamine Induces the Formation of Quasi-aggregate in the Early Stage of Protein Fibrillization. Journal of Biological Chemistry, 2003, 278, 34717-34724.	1.6	47
21	An Efficient Protein Transformation Protocol for Introducing Prions into Yeast. Methods in Enzymology, 2006, 412, 185-200.	0.4	45
22	Hydrogen Bond Network in the Distal Site of Peroxidases:Â Spectroscopic Properties of Asn70 â†' Asp Horseradish Peroxidase Mutantâ€. Biochemistry, 1997, 36, 9791-9798.	1.2	44
23	Molecular basis for diversification of yeast prion strain conformation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2389-2394.	3.3	44
24	GABARAPs dysfunction by autophagy deficiency in adolescent brain impairs GABA _A receptor trafficking and social behavior. Science Advances, 2019, 5, eaau8237.	4.7	41
25	Detection of a Tryptophan Radical as an Intermediate Species in the Reaction of Horseradish Peroxidase Mutant (Phe-221 â†' Trp) and Hydrogen Peroxide. Journal of Biological Chemistry, 1998, 273, 14753-14760.	1.6	40
26	Aggregation of scaffolding protein DISC1 dysregulates phosphodiesterase 4 in Huntingtonâ€™s disease. Journal of Clinical Investigation, 2017, 127, 1438-1450.	3.9	36
27	Layers of structure and function in protein aggregation. Nature Chemical Biology, 2015, 11, 373-377.	3.9	35
28	Structural Roles of the Highly Conserved Glu Residue in the Heme Distal Site of Peroxidasesâ€. Biochemistry, 1998, 37, 2629-2638.	1.2	31
29	Autophagy links MTOR and GABA signaling in the brain. Autophagy, 2019, 15, 1848-1849.	4.3	30
30	Loss of Ftsj1 perturbs codon-specific translation efficiency in the brain and is associated with X-linked intellectual disability. Science Advances, 2021, 7, .	4.7	30
31	Enclosed chambers for humidity control and sample containment in fiber diffraction. Journal of Applied Crystallography, 2008, 41, 206-209.	1.9	27
32	TAR DNA-Binding Protein 43 and Disrupted in Schizophrenia 1 Coaggregation Disrupts Dendritic Local Translation and Mental Function in Frontotemporal Lobar Degeneration. Biological Psychiatry, 2018, 84, 509-521.	0.7	26
33	Genome-wide Translation Profiling by Ribosome-Bound tRNA Capture. Cell Reports, 2018, 23, 608-621.	2.9	25
34	The Effects of Aggregation-Inducing Motifs on Amyloid Formation of Model Proteins Related to Neurodegenerative Diseasesâ€. Biochemistry, 2002, 41, 10277-10286.	1.2	24
35	Luminol Activity of Horseradish Peroxidase Mutants Mimicking a Proposed Binding Site for Luminol inArthromyces ramosusPeroxidaseâ€. Biochemistry, 1999, 38, 10463-10473.	1.2	19
36	Distinct segregation patterns of yeast cell-peripheral proteins uncovered by a method for protein segregatome analysis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8909-8918.	3.3	19

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37	Amyloid conformation-dependent disaggregation in a reconstituted yeast prion system. Nature Chemical Biology, 2022, 18, 321-331.	3.9	18
38	Radically Different Amyloid Conformations Dictate the Seeding Specificity of a Chimeric Sup35 Prion. Journal of Molecular Biology, 2011, 408, 1-8.	2.0	12
39	Short disordered protein segment regulates cross-species transmission of a yeast prion. Nature Chemical Biology, 2020, 16, 756-765.	3.9	12
40	Aging causes distinct characteristics of polyglutamine amyloids in vivo. Genes To Cells, 2011, 16, 557-564.	0.5	11
41	Active conversion to the prion state as a molecular switch for cellular adaptation to environmental stress. BioEssays, 2013, 35, 12-16.	1.2	11
42	Self-propagating amyloid as a critical regulator for diverse cellular functions. Journal of Biochemistry, 2014, 155, 345-351.	0.9	11
43	A Protein Transformation Protocol for Introducing Yeast Prion Particles into Yeast. Methods in Enzymology, 2010, 470, 681-693.	0.4	8
44	[KIL-d] Protein Element Confers Antiviral Activity via Catastrophic Viral Mutagenesis. Molecular Cell, 2015, 60, 651-660.	4.5	8
45	Translation from the Ribosome to the Clinic: Implication in Neurological Disorders and New Perspectives from Recent Advances. Biomolecules, 2019, 9, 680.	1.8	7
46	Structureactivity relation of horseradish peroxidases as studied with mutations at heme distal and proximal sites. Pure and Applied Chemistry, 1998, 70, 911-916.	0.9	7
47	A perspective on the potential involvement of impaired proteostasis in neuropsychiatric disorders. Biological Psychiatry, 2021, , .	0.7	5
48	438. Amyloidogenic DISC1: Role for Psychiatric Manifestation in Neurodegenerative Disorders. Biological Psychiatry, 2017, 81, S179.	0.7	1
49	Regulation of sensorimotor gating via Disc1/Huntingtin-mediated Bdnf transport in the cortico-striatal circuit. Molecular Psychiatry, 2022, , .	4.1	1
50	Tracking a toxic polyQ epitope. Nature Chemical Biology, 2011, 7, 861-862.	3.9	0
51	Aggregation of scaffolding protein DISC1 dysregulates phosphodiesterase 4 in Huntingtonâ€™s disease. Journal of the Neurological Sciences, 2017, 381, 1035.	0.3	0
52	Regulation of Metabolism and Structural Polymorphism of Amyloid Fibrils. Seibutsu Butsuri, 2020, 60, 236-240.	0.0	0