Masashi Miyano

List of Publications by Year
in descending order

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86 papers	8,155 citations	172386 29 h-index	58549 82 g-index
86 all docs	86 docs citations	86 times ranked	7362 citing authors

#	Article	IF	Citations
1	Na+-mimicking ligands stabilize the inactive state of leukotriene B4 receptor BLT1. Nature Chemical Biology, 2018, 14, 262-269.	3.9	80
2	The Y54(L)W mutation of anti-leukotriene C4single-chain antibody increases affinity to leukotriene E4. Journal of Biochemistry, 2017, 161, 79-86.	0.9	1
3	Novel Features of Eukaryotic Photosystem II Revealed by Its Crystal Structure Analysis from a Red Alga. Journal of Biological Chemistry, 2016, 291, 5676-5687.	1.6	100
4	The leukotriene B4 receptor BLT1 is stabilized by transmembrane helix capping mutations. Biochemistry and Biophysics Reports, 2015, 4, 243-249.	0.7	2
5	Crystal Structure of OXA-58 with the Substrate-Binding Cleft in a Closed State: Insights into the Mobility and Stability of the OXA-58 Structure. PLoS ONE, 2015, 10, e0145869.	1.1	7
6	Neutralization of leukotriene C4 and D4 activity by monoclonal and single-chain antibodies. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1625-1633.	1.1	3
7	A leukotriene C4 synthase inhibitor with the backbone of 5-(5-methylene-4-oxo-4,5-dihydrothiazol-2-ylamino) isophthalic acid. Journal of Biochemistry, 2013, 153, 421-429.	0.9	13
8	Seleno-detergent MAD phasing of leukotriene C₄ synthase in complex with dodecyl-Î²-<scp>D</scp>-selenomaltoside. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1666-1673.	0.7	7
9	The Catalytic Architecture of Leukotriene C4 Synthase with Two Arginine Residues. Journal of Biological Chemistry, 2011, 286, 16392-16401.	1.6	29
10	Internally bridging water molecule in transmembrane Î±-helical kink. Current Opinion in Structural Biology, 2010, 20, 456-463.	2.6	17
11	The catalytic efficiency (kcat/Km) of the class A Î²-lactamase Toho-1 correlates with the thermal stability of its catalytic intermediate analog. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 684-691.	1.1	16
12	Functional expression of single-chain antibody to leukotriene C4. Biochemical and Biophysical Research Communications, 2010, 392, 421-425.	1.0	2
13	Expression, purification and characterization of leukotriene B4 receptor, BLT1 in Pichia pastoris. Protein Expression and Purification, 2010, 72, 66-74.	0.6	9
14	Recent Advances in Biology of Crysteinyl Leukotriene. Nihon Kessho Gakkaishi, 2010, 52, 69-75.	0.0	1
15	Helix 8 of leukotriene B4typeâ€2 receptor is required for the folding to pass the quality control in the endoplasmic reticulum. FASEB Journal, 2009, 23, 1470-1481.	0.2	28
16	Structural Basis of the Catalytic Mechanism Operating in Open-Closed Conformers of Lipocalin Type Prostaglandin D Synthase. Journal of Biological Chemistry, 2009, 284, 22344-22352.	1.6	38
17	Application of maximum-entropy maps in the accurate refinement of a putative acylphosphatase using 1.3â€…Ã… X-ray diffraction data. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 237-247.	2.5	9
18	Structure of 3-oxoacyl-(acyl-carrier protein) synthase II fromThermus thermophilusHB8. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 358-366.	0.7	7

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19	Crystallization screening test for the whole-cell project onThermus thermophilusHB8. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 487-491.	0.7	24
20	Crystallization and preliminary diffraction studies of prostaglandin E₂-specific monoclonal antibody Fab fragment in the ligand complex. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 1027-1030.	0.7	3
21	A Plasma Membrane-associated Protein of Arabidopsis thaliana AtPCaP1 Binds Copper Ions and Changes Its Higher Order Structure. Journal of Biochemistry, 2008, 144, 487-497.	0.9	17
22	Crystal Structure of Squid Rhodopsin with Intracellularly Extended Cytoplasmic Region. Journal of Biological Chemistry, 2008, 283, 17753-17756.	1.6	122
23	Evaluation of protein crystallization state by sequential image classification. Sensor Review, 2008, 28, 242-247.	1.0	3
24	Crystalline object evaluation by image processing. Sensor Review, 2008, 28, 143-149.	1.0	1
25	Identification of the Intracellular Region of the Leukotriene B4 Receptor Type 1 That Is Specifically Involved in Gi Activation. Journal of Biological Chemistry, 2007, 282, 3998-4006.	1.6	38
26	A 281 Tflops calculation for X-ray protein structure analysis with special-purpose computers MDGRAPE-3. , 2007, , .		8
27	RVCaB, a Calcium-binding Protein in Radish Vacuoles, is Predominantly an Unstructured Protein with a Polyproline Type II Helix. Journal of Biochemistry, 2007, 142, 201-211.	0.9	20
28	Structure of a Hyperthermophilic Archaeal Homing Endonuclease, I-Tsp061I: Contribution of Cross-domain Polar Networks to Thermostability. Journal of Molecular Biology, 2007, 365, 362-378.	2.0	11
29	Crystal structure of a human membrane protein involved in cysteinyl leukotriene biosynthesis. Nature, 2007, 448, 609-612.	13.7	140
30	Characterization of a Major Secretory Protein in the Cane Toad (Bufo marinus) Choroid Plexus as an Amphibian Lipocalin-type Prostaglandin D Synthase. Journal of Biochemistry, 2006, 141, 173-180.	0.9	5
31	Crystal Structure of Anti-Configuration of Indomethacin and Leukotriene B4 12-Hydroxydehydrogenase/15-Oxo-Prostaglandin 13-Reductase Complex Reveals the Structural Basis of Broad Spectrum Indomethacin Efficacy. Journal of Biochemistry, 2006, 140, 457-466.	0.9	21
32	Evaluation of crystalline objects in crystallizing protein droplets based on line-segment information in greyscale images. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 239-245.	2.5	11
33	Integrated state evaluation for the images of crystallization droplets utilizing linear and nonlinear classifiers. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1066-1072.	2.5	6
34	Structural and Functional Characterization of HQL-79, an Orally Selective Inhibitor of Human Hematopoietic Prostaglandin D Synthase. Journal of Biological Chemistry, 2006, 281, 15277-15286.	1.6	91
35	Structural Basis of the Sphingomyelin Phosphodiesterase Activity in Neutral Sphingomyelinase from Bacillus cereus. Journal of Biological Chemistry, 2006, 281, 16157-16167.	1.6	82
36	Amphiphilic Helices Drive Signaling. Structure, 2005, 13, 946-947.	1.6	2

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37	Evaluation of protein crystallization states based on texture information derived from greyscale images. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 873-880.	2.5	14
38	Crystallization and preliminary crystallographic analysis of the human calcineurin homologous protein CHP2 bound to the cytoplasmic region of the Na+/H+exchanger NHE1. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 956-958.	0.7	11
39	Crystal structure of alanyl-tRNA synthetase editing-domain homolog (PH0574) from a hyperthermophile, Pyrococcus horikoshii OT3 at 1.45 Ã... resolution. Proteins: Structure, Function and Bioinformatics, 2005, 62, 1133-1137.	1.5	14
40	Crystal Structure of a Novel FAD-, FMN-, and ATP-containing l-Proline Dehydrogenase Complex from Pyrococcus horikoshii. Journal of Biological Chemistry, 2005, 280, 31045-31049.	1.6	39
41	Leukotriene B4 Receptor and the Function of Its Helix 8. Journal of Biological Chemistry, 2005, 280, 32049-32052.	1.6	55
42	A Novel Induced-fit Reaction Mechanism of Asymmetric Hot Dog Thioesterase Paal. Journal of Molecular Biology, 2005, 352, 212-228.	2.0	54
43	Crystal Structure of Novel NADP-dependent 3-Hydroxyisobutyrate Dehydrogenase from Thermus thermophilus HB8. Journal of Molecular Biology, 2005, 352, 905-917.	2.0	32
44	Protein-protein interactions of the hyperthermophilic archaeon Pyrococcus horikoshii OT3. Genome Biology, 2005, 6, R98.	13.9	12
45	Structural Basis of the Substrate-specific Two-step Catalysis of Long Chain Fatty Acyl-CoA Synthetase Dimer. Journal of Biological Chemistry, 2004, 279, 31717-31726.	1.6	189
46	Structural Basis of Leukotriene B4 12-Hydroxydehydrogenase/15-Oxo-prostaglandin 13-Reductase Catalytic Mechanism and a Possible Src Homology 3 Domain Binding Loop. Journal of Biological Chemistry, 2004, 279, 22615-22623.	1.6	58
47	High Throughput Protein Crystallography at RIKEN Structural Genomic Beamlines. AIP Conference Proceedings, 2004, , .	0.3	1
48	Structure and implications for the thermal stability of phosphopantetheine adenylyltransferase fromThermus thermophilus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 97-104.	2.5	28
49	Structure of aldolase fromThermus thermophilusHB8 showing the contribution of oligomeric state to thermostability. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1816-1823.	2.5	36
50	Crystal Structure of Purine Nucleoside Phosphorylase from Thermus thermophilus. Journal of Molecular Biology, 2004, 337, 1149-1160.	2.0	33
51	Crystallization and preliminary X-ray crystallographic studies of NADP-dependent 3-hydroxyisobutyrate dehydrogenase fromThermus thermophilusHB8. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2294-2296.	2.5	1
52	Mechanism of metal activation of human hematopoietic prostaglandin D synthase. Nature Structural and Molecular Biology, 2003, 10, 291-296.	3.6	64
53	Helix 8 of the Leukotriene B4 Receptor Is Required for the Conformational Change to the Low Affinity State after G-protein Activation. Journal of Biological Chemistry, 2003, 278, 41500-41509.	1.6	52
54	Oxyanion Hole-stabilized Stereospecific Isomerization in Ribose-5-phosphate Isomerase (Rpi). Journal of Biological Chemistry, 2003, 278, 49183-49190.	1.6	26

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55	The First Crystal Structure of Archaeal Aldolase. Journal of Biological Chemistry, 2003, 278, 10799-10806.	1.6	42
56	Cloning, Expression, Crystallization, and Preliminary X-Ray Analysis of Recombinant Mouse Lipocalin-type Prostaglandin D Synthase, a Somnogen-Producing Enzyme. Journal of Biochemistry, 2003, 133, 29-32.	0.9	20
57	The Flexible C-Terminal Region of Aspergillus terreus Blasticidin S Deaminase: Identification of Its Functional Roles with Deletion Enzymes. Biochemical and Biophysical Research Communications, 2002, 290, 421-426.	1.0	4
58	cDNA Cloning and Mutagenesis Study of Liver-Type Prostaglandin F Synthase, and Identification of the Prostaglandin F Producing Cells in the Liver. Advances in Experimental Medicine and Biology, 2002, 507, 263-268.	0.8	1
59	Structural Basis of Hematopoietic Prostaglandin D Synthase Activity Elucidated by Site-directed Mutagenesis. Journal of Biological Chemistry, 2000, 275, 31239-31244.	1.6	57
60	Crystal Structure of Rhodopsin: A G Protein-Coupled Receptor. Science, 2000, 289, 739-745.	6.0	5,486
61	cDNA Cloning, Expression, and Mutagenesis Study of Liver-type Prostaglandin F Synthase. Journal of Biological Chemistry, 1999, 274, 241-248.	1.6	61
62	Cloning and Crystal Structure of Hematopoietic Prostaglandin D Synthase. Cell, 1999, 96, 449.	13.5	4
63	Crystal structure of annexin V with its ligand K-201 as a calcium channel activity inhibitor. Journal of Molecular Biology, 1997, 274, 16-20.	2.0	60
64	Cloning and Crystal Structure of Hematopoietic Prostaglandin D Synthase. Cell, 1997, 90, 1085-1095.	13.5	244
65	Physicochemical characterization of ATP binding to human 5-lipoxygenase. Lipids, 1996, 31, 367-371.	0.7	25
66	X-ray Structure of a Pokeweed Antiviral Protein, Coded by a New Genomic Clone, at 0.23 nm Resolution. A Model Structure Provides a Suitable Electrostatic Field for Substrate Binding. FEBS Journal, 1994, 225, 369-374.	0.2	26
67	Interfacial kinetic reaction of human 5-lipoxygenase. FEBS Journal, 1994, 222, 285-292.	0.2	24
68	Crystallization and Preliminary X-ray Crystallographic Studies of Recombinant Human Leukotriene A4 Hydrolase Complexed with Bestatin. Journal of Molecular Biology, 1994, 238, 854-856.	2.0	24
69	Human 5-lipoxygenase associates with phosphatidylcholine liposomes and modulates LTA4 synthetase activity. Lipids and Lipid Metabolism, 1994, 1215, 300-306.	2.6	38
70	Nucleotide sequence of a genomic gene encoding tritin, a ribosome-inactivating protein from Triticum aestivum. Plant Molecular Biology, 1993, 22, 171-176.	2.0	25
71	Expression of a pokeweed antiviral protein inEscherichia coliand its characterization. FEBS Letters, 1993, 320, 31-34.	1.3	13
72	A genomic gene for MAP, a ribosome-inactivating protein fromMirabilis jalapa, contains an intron. Nucleic Acids Research, 1993, 21, 1035-1035.	6.5	10

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73	Mutagenesis studies on the amino acid residues involved in the iron-binding and the activity of human 5-lipoxygenase. Biochemical and Biophysical Research Communications, 1992, 182, 1482-1490.	1.0	34
74	Leukotriene A4hydrolase, a bifunctional enzyme Distinction of leukotriene A4hydrolase and aminopeptidase activities by site-directed mutagenesis at Glu-297. FEBS Letters, 1992, 309, 353-357.	1.3	46
75	Crystallization and preliminary X-ray crystallographic analysis of Mirabilis antiviral protein. Journal of Molecular Biology, 1992, 226, 281-283.	2.0	8
76	Crystallographic Studies of a Calcium Binding Lysozyme from Equine Milk at 2.5 Ã...Resolution. Journal of Biochemistry, 1992, 111, 141-143.	0.9	58
77	Nucleotide sequence of cDNA encoding ?-luffin, another ribosome-inactivating protein from Luffa cylindrica. Plant Molecular Biology, 1992, 19, 887-889.	2.0	12
78	Isolation and analysis of a genomic clone encoding a pokeweed antiviral protein. Plant Molecular Biology, 1992, 20, 879-886.	2.0	52
79	Adenine depurination and inactivation of plant ribosomes by an antiviral protein of Mirabilis jalapa (MAP). Plant Molecular Biology, 1992, 20, 1111-1119.	2.0	21
80	Nucleotide sequence of cDNA encoding ?-luffin, a ribosome-inactivating protein from Luffa cylindrica. Plant Molecular Biology, 1992, 18, 1199-1202.	2.0	14
81	Escherichia coli ribosome is inactivated by Mirabilis antiviral protein which cleaves the N-glycosidic bond at A2660 of 23 S ribosomal RNA. Journal of Molecular Biology, 1991, 221, 737-743.	2.0	26
82	A structural study of calcium-binding equine lysozyme by two-dimensional 1H-NMR. BBA - Proteins and Proteomics, 1991, 1078, 77-84.	2.1	18
83	Germination and growth inhibition of acylnornicotines from section repandae of the genus Nicotiana and synthetic acylnornicotines.. Agricultural and Biological Chemistry, 1988, 52, 1899-1903.	0.3	5
84	1 '-(6-Hydroxyoctanoyl) nornicotine and 1 '-(7-Hydroxyoctanoyl) nornico-tine, Two New Alkaloids from Japanese Domestic Tobacco. Agricultural and Biological Chemistry, 1981, 45, 1029-1032.	0.3	4
85	Nâ€²-Isopropylnornicotine in Burley Tobacco (Nicotiana tabacum). Agricultural and Biological Chemistry, 1979, 43, 2205-2206.	0.3	0
86	New Minor Alkaloids in Burley Tobacco (Nicotiana tabacum). Agricultural and Biological Chemistry, 1979, 43, 1607-1608.	0.3	0