Fusao Takusagawa

List of Publications by Year in descending order

75 papers	2,838 citations	172457 29 h-index	182427 51 g-index
87 all docs	87 docs citations	87 times ranked	2569 citing authors

#	Article	IF	Citations
1	Microsomal Prostaglandin E Synthase Type 2 (mPGES2) Is a Glutathione-dependent Heme Protein, and Dithiothreitol Dissociates the Bound Heme to Produce Active Prostaglandin E2 Synthase in Vitro. Journal of Biological Chemistry, 2013, 288, 10166-10175.	3.4	25
2	An investigation of the catalytic mechanism of S-adenosylmethionine synthetase by QM/MM calculations. Archives of Biochemistry and Biophysics, 2009, 492, 82-92.	3.0	5
3	Discovery of Novel Types of Inhibitors ofS-Adenosylmethionine Synthesis by Virtual Screening. Journal of Medicinal Chemistry, 2009, 52, 5967-5973.	6.4	9
4	Cloning, bacterial expression, and unique structure of adenosylhomocysteine hydrolase-like protein 1, or inositol 1,4,5-triphosphate receptor-binding protein from mouse kidney. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1786-1794.	2.3	8
5	A catalytic mechanism that explains a low catalytic activity of serine dehydratase like-1 from human cancer cells: Crystal structure and site-directed mutagenesis studies. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 809-818.	2.4	11
6	PGH2 Degradation Pathway Catalyzed by GSHâˆ'Heme Complex Bound Microsomal Prostaglandin E2 Synthase Type 2:â€‰ The First Example of a Dual-Function Enzyme,. Biochemistry, 2007, 46, 8414-8424.	2.5	29
7	Structure and function of eritadenine and its 3-deaza analogues: Potent inhibitors of S-adenosylhomocysteine hydrolase and hypocholesterolemic agents. Biochemical Pharmacology, 2007, 73, 981-989.	4.4	26
8	Enzymatic and biochemical properties of a novel human serine dehydratase isoform. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 961-971.	2.3	9
9	Crystal Structure and Possible Catalytic Mechanism of Microsomal Prostaglandin E Synthase Type 2 (mPGES-2). Journal of Molecular Biology, 2005, 348, 1163-1176.	4.2	65
10	Some biochemical and histochemical properties of human liver serine dehydratase. International Journal of Biochemistry and Cell Biology, 2005, 37, 574-589.	2.8	9
11	Catalytic mechanism of S-adenosylhomocysteine hydrolase: Roles of His 54, Asp130, Glu155, Lys185, and Asp189. International Journal of Biochemistry and Cell Biology, 2005, 37, 2417-2435.	2.8	30
12	Catalytic Mechanism of Guanidinoacetate Methyltransferase:â€‰ Crystal Structures of Guanidinoacetate Methyltransferase Ternary Complexes,. Biochemistry, 2004, 43, 14385-14394.	2.5	30
13	Crystal Structure of Human Prostaglandin F Synthase (AKR1C3)â€,â€¡. Biochemistry, 2004, 43, 2188-2198.	2.5	94
14	Crystal Structure of the S-Adenosylmethionine Synthetase Ternary Complex:â€‰ A Novel Catalytic Mechanism of S-Adenosylmethionine Synthesis from ATP and Met,. Biochemistry, 2004, 43, 1821-1831.	2.5	92
15	Monoclinic guanidinoacetate methyltransferase and gadolinium ion-binding characteristics. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1589-1596.	2.5	7
16	Crystal Structure of Serine Dehydratase from Rat Liverâ€,â€¡. Biochemistry, 2003, 42, 12854-12865.	2.5	72
17	Catalytic Mechanism of GlycineN-Methyltransferaseâ€,â‡. Biochemistry, 2003, 42, 8394-8402.	2.5	82
18	Localization and hormonal control of serine dehydratase during metabolic acidosis differ markedly from those of phosphoenolpyruvate carboxykinase in rat kidney. International Journal of Biochemistry and Cell Biology, 2003, 35, 1234-1247.	2.8	6

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19	Catalytic Mechanism ofS-Adenosylhomocysteine Hydrolase. Journal of Biological Chemistry, 2002, 277, 22670-22676.	3.4	48
20	Inhibition of S-Adenosylhomocysteine Hydrolase by Acyclic Sugar Adenosine Analogue d-Eritadenine. Journal of Biological Chemistry, 2002, 277, 7477-7482.	3.4	36
21	The Active Site Loop ofS-Adenosylmethionine Synthetase Modulates Catalytic Efficiencyâ€. Biochemistry, 2002, 41, 9358-9369.	2.5	28
22	Crystal Structure of Guanidinoacetate Methyltransferase from Rat Liver: A Model Structure of Protein Arginine Methyltransferase. Journal of Molecular Biology, 2002, 320, 223-235.	4.2	29
23	Evidence for a dimeric structure of rat liver serine dehydratase. International Journal of Biochemistry and Cell Biology, 2002, 34, 533-543.	2.8	12
24	Anti-leukemia selectivity in actinomycin analogues. Bioorganic and Medicinal Chemistry, 2001, 9, 719-725.	3.0	27
25	Crystallization and preliminary X-ray diffraction studies of d(ACGTAGCTACGT)2:[actinomycin D, (echinomycin)2] and d(ACGTAGCTACGT)2:[actinomycin D, (triostin A)2] complexes. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 344-347.	2.5	5
26	Natural and synthetic analogues of actinomycin D as Grb2-SH2 domain blockers. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1455-1457.	2.2	11
27	Mechanisms for auto-inhibition and forced product release in glycine N-methyltransferase: crystal structures of wild-type, mutant R175K and S-adenosylhomocysteine-bound R175K enzymes. Journal of Molecular Biology, 2000, 298, 149-162.	4.2	44
28	Effects of Site-directed Mutagenesis on Structure and Function of Recombinant Rat Liver S-Adenosylhomocysteine Hydrolase. Journal of Biological Chemistry, 2000, 275, 32147-32156.	3.4	40
29	Rat Liver Serine Dehydratase. Journal of Biological Chemistry, 1999, 274, 12855-12860.	3.4	15
30	Crystallization and preliminary X-ray diffraction studies of guanidinoacetate methyltransferase from rat liver. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1928-1929.	2.5	1
31	Crystal Structure ofS-Adenosylhomocysteine Hydrolase from Rat Liver[,]. Biochemistry, 1999, 38, 8323-8333.	2.5	105
32	Hydrogen bonding in tungsten(VI) salicylate free acids1Dedicated to Professor Daryle Busch on the occasion of his 70th birthday.1. Coordination Chemistry Reviews, 1998, 174, 255-282.	18.8	7
33	Structure, function and physiological role of glycine N-methyltransferase. International Journal of Biochemistry and Cell Biology, 1998, 30, 13-26.	2.8	50
34	Selectivity of F8-actinomycin D for RNA:DNA hybrids and its anti-leukemia activity. Bioorganic and Medicinal Chemistry, 1997, 5, 1197-1207.	3.0	30
35	Crystal Structure of GlycineN-Methyltransferase from Rat Liverâ€,â€¡. Biochemistry, 1996, 35, 11985-11993.	2.5	105
36	Physical and Biological Characteristics of the Antitumor Drug Actinomycin D Analogues Derivatized atN-Methyl-l-valine Residuesâ€. Biochemistry, 1996, 35, 13240-13249.	2.5	16

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37	Studies on the Synthesis of Acanthodoral and Nanaimoal:Â Evaluation of Cationic Cyclization Routes. Journal of Organic Chemistry, 1996, 61, 8456-8463.	3.2	13
38	Structure and Function of S-Adenosylmethionine Synthetase:â€‰ Crystal Structures of S-Adenosylmethionine Synthetase with ADP, BrADP, and PPi at 2.8 Ã... Resolution,. Biochemistry, 1996, 35, 2586-2596.	2.5	117
39	Flexible Loop in the Structure of S-Adenosylmethionine Synthetase Crystallized in the Tetragonal Modification. Journal of Biomolecular Structure and Dynamics, 1996, 13, 727-739.	3.5	30
40	Crystal Structure of S-Adenosylmethionine Synthetase. Journal of Biological Chemistry, 1996, 271, 136-147.	3.4	112
41	Crystal Structure ofd-Erythroascorbic Acid. Journal of Carbohydrate Chemistry, 1995, 14, 1257-1263.	1.1	3
42	Structural, Physical, and Biological Characteristics of RNA.cntdot.DNA Binding Agent N8-Actinomycin D. Biochemistry, 1995, 34, 8481-8491.	2.5	30
43	Multiple Binding Modes of Anticancer Drug Actinomycin D: X-ray, Molecular Modeling, and Spectroscopic Studies of d(GAAGCTTC)2-Actinomycin D Complexes and Its Host DNA. Journal of the American Chemical Society, 1994, 116, 4154-4165.	13.7	88
44	Toward the Design of an RNA:DNA Hybrid Binding Agent. Journal of the American Chemical Society, 1994, 116, 2243-2253.	13.7	18
45	Role of D-Valine Residues in the Antitumor Drug Actinomycin D:Replacement of D-Valines with Other D-Amino Acids Changes the DNA Binding Characteristics and Transcription Inhibitory Activities. Journal of the American Chemical Society, 1994, 116, 7971-7982.	13.7	28
46	Ring size effects in phenol-phenolate tungsten (VI) chelates. Journal of the American Chemical Society, 1993, 115, 7916-7917.	13.7	17
47	Synthesis of EnantiopureN-tert-Butoxycarbonyl-2-aminocycloalkanones. Synthetic Communications, 1992, 22, 3003-3012.	2.1	17
48	Further Studies on Quinone Diels-Alder Reactions with 1,3,3-Trimethyl-2-vinylcyclohexenes: Regioselective Synthesis of 12-Methyl-podocarpane Diterpenes and Isolation of a Hetero Diels-Alder Product from 1,4-Benzoquinone. Synthetic Communications, 1992, 22, 2031-2042.	2.1	6
49	Crystal structure of the 2:1 complex between d(GAAGCTTC) and the anticancer drug actinomycin D. Journal of Molecular Biology, 1992, 225, 445-456.	4.2	157
50	Studies on diels-alder reactions of 1,3,3-trimethyl-2-vinylcyclohexene with 2-cyclohexenones. Tetrahedron, 1992, 48, 9399-9416.	1.9	25
51	Assymetric quinone-based Deils-Alder reactions. Tetrahedron Letters, 1992, 33, 6731-6734.	1.4	30
52	Syntheses and rearrangements of spirocyclic oxaziridines derived from unsymmetrical ketones. Journal of Organic Chemistry, 1991, 56, 499-508.	3.2	33
53	The Crystal Structure of d(GTACGTAC) at 2.25 Ã... Resolution: Are the A-DNA's Always Unwound Approximately 10Â° at the C-G Steps?. Journal of Biomolecular Structure and Dynamics, 1990, 7, 795-809.	3.5	33
54	Synthetic aspects of an asymmetric nitrogen-insertion process: preparation of chiral, non-racemic caprolactams and valerolactams. Total synthesis of (-)-alloyohimbane. Journal of the American Chemical Society, 1990, 112, 4879-4891.	13.7	73

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55	A new general synthetic approach to diterpenes: application to syntheses of (.+-.)-taxodione and (.+-.)-royleanone. Journal of Organic Chemistry, 1989, 54, 5712-5727.	3.2	62
56	Crystal structure of 1-methyl-1,3,5,7-tetraazaadamantan-1-ium ammonium sulfate hydrate, a double salt containing puckered layers of hydrogen-bonded NH 4 + and SO 4 2? groups. Journal of Inclusion Phenomena, 1988, 6, 515-521.	0.6	2
57	The role of the cyclic depsipeptide rings in antibiotics.. Journal of Antibiotics, 1985, 38, 1596-1604.	2.0	24
58	Neutron diffraction study of lithium hydrogen phthalate monohydrate: A material with two very short intramolecular Oâ‹…â‹…â‹…Hâ‹…â‹…â‹…O hydrogen bonds. Journal of Chemical Physics, 1985, 82, 5636-5647.	3.0	54
59	The structure of a pseudo intercalated complex between actinomycin and the DNA binding sequence d(GpC). Nature, 1982, 296, 466-469.	27.8	117
60	Synthesis and x-ray crystal structure of [PPN]+2[RuIr4(CO)9(Î¼2-CO)6]2-. Journal of Organometallic Chemistry, 1981, 213, 365-377.	1.8	16
61	Isolation and characterization of penta-.mu.2-carbonyl-decacarbonylpentarhodate(1-): a key product in rhodium carbonyl chemistry. Journal of the American Chemical Society, 1980, 102, 1740-1742.	13.7	80
62	Hydrogen bond studies. 85. A very short, asymmetrical, intramolecular hydrogen bond: A neutron diffraction study of pyridineâ€2,3â€dicarboxylic acid (C7H5NO4). Journal of Chemical Physics, 1974, 60, 3866-3874.	3.0	71
63	The Crystal Structure of Pyrazinic Acid. Bulletin of the Chemical Society of Japan, 1974, 47, 1409-1413.	3.2	23
64	The Crystal Structure of Orotic Acid Monohydrate (Vitamin B13). Bulletin of the Chemical Society of Japan, 1973, 46, 2011-2019.	3.2	58
65	The Crystal Structure of Dipicolinic Acid Monohydrate. Bulletin of the Chemical Society of Japan, 1973, 46, 2020-2027.	3.2	62
66	The Crystal Structure of Quinolinic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2372-2380.	3.2	25
67	The Crystal Structure of Cinchomeronic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2669-2675.	3.2	28
68	The Crystal Structure of Trimellitic Acid for the Pseudo-cell. Bulletin of the Chemical Society of Japan, 1973, 46, 2960-2965.	3.2	14
69	The Crystal Structure of Hemimellitic Acid Dihydrate. Bulletin of the Chemical Society of Japan, 1973, 46, 2998-3004.	3.2	17
70	THE CRYSTAL STRUCTURE OF PICOLINIC ACID. Chemistry Letters, 1973, 2, 1089-1090.	1.3	18
71	THE CRYSTAL STRUCTURE OF PYRAZINE-2,3-DICARBOXYLIC ACID DIHYDRATE. Chemistry Letters, 1973, 2, 1121-1122.	1.3	28
72	HYDROGEN BONDING OF PYRIDINE-CARBOXYLIC ACIDS IN SOLIDS. Chemistry Letters, 1973, 2, 1139-1142.	1.3	1

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73	The Crystal Structure of Dinicotinic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2292-2299.	3.2	30
74	The Crystal and Molecular Structure of Pyromellitic Acid Dihydrate (Benzene-1,2,4,5-tetracarboxylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	57
75	The Crystal Structure of Pyromellitic Acid Dihydrate (Benzene-1,2,4,5-tetracarboxylic Acid Dihydrate). Bulletin of the Chemical Society of Japan, 1969, 42, 3368-3368.	3.2	3