

Fusao Takusagawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11873341/publications.pdf>

Version: 2024-02-01

75
papers

2,838
citations

196777
29
h-index

206121
51
g-index

87
all docs

87
docs citations

87
times ranked

2832
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. <i>Journal of Biological Chemistry</i> , 2013, 288, 10166-10175.	1.6	25
2	An investigation of the catalytic mechanism of S-adenosylmethionine synthetase by QM/MM calculations. <i>Archives of Biochemistry and Biophysics</i> , 2009, 492, 82-92.	1.4	5
3	Discovery of Novel Types of Inhibitors of S-Adenosylmethionine Synthesis by Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5967-5973.	2.9	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. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1786-1794.	1.1	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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 809-818.	1.1	11
6	PGH2 Degradation Pathway Catalyzed by GSH~Heme Complex Bound Microsomal Prostaglandin E2 Synthase Type 2:~% The First Example of a Dual-Function Enzyme,. <i>Biochemistry</i> , 2007, 46, 8414-8424.	1.2	29
7	Structure and function of eritadenine and its 3-deaza analogues: Potent inhibitors of S-adenosylhomocysteine hydrolase and hypocholesterolemic agents. <i>Biochemical Pharmacology</i> , 2007, 73, 981-989.	2.0	26
8	Enzymatic and biochemical properties of a novel human serine dehydratase isoform. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 961-971.	1.1	9
9	Crystal Structure and Possible Catalytic Mechanism of Microsomal Prostaglandin E Synthase Type 2 (mPGES-2). <i>Journal of Molecular Biology</i> , 2005, 348, 1163-1176.	2.0	65
10	Some biochemical and histochemical properties of human liver serine dehydratase. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 574-589.	1.2	9
11	Catalytic mechanism of S-adenosylhomocysteine hydrolase: Roles of His 54, Asp130, Glu155, Lys185, and Asp189. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 2417-2435.	1.2	30
12	Catalytic Mechanism of Guanidinoacetate Methyltransferase:~% Crystal Structures of Guanidinoacetate Methyltransferase Ternary Complexes,. <i>Biochemistry</i> , 2004, 43, 14385-14394.	1.2	30
13	Crystal Structure of Human Prostaglandin F Synthase (AKR1C3)~%. <i>Biochemistry</i> , 2004, 43, 2188-2198.	1.2	94
14	Crystal Structure of the S-Adenosylmethionine Synthetase Ternary Complex:~% A Novel Catalytic Mechanism of S-Adenosylmethionine Synthesis from ATP and Met,. <i>Biochemistry</i> , 2004, 43, 1821-1831.	1.2	92
15	Monoclinic guanidinoacetate methyltransferase and gadolinium ion-binding characteristics. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1589-1596.	2.5	7
16	Crystal Structure of Serine Dehydratase from Rat Liver~%. <i>Biochemistry</i> , 2003, 42, 12854-12865.	1.2	72
17	Catalytic Mechanism of GlycineN-Methyltransferase~%. <i>Biochemistry</i> , 2003, 42, 8394-8402.	1.2	82
18	Localization and hormonal control of serine dehydratase during metabolic acidosis differ markedly from those of phosphoenolpyruvate carboxykinase in rat kidney. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 1234-1247.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Catalytic Mechanism of S-Adenosylhomocysteine Hydrolase. <i>Journal of Biological Chemistry</i> , 2002, 277, 22670-22676.	1.6	48
20	Inhibition of S-Adenosylhomocysteine Hydrolase by Acyclic Sugar Adenosine Analogue d-Eritadenine. <i>Journal of Biological Chemistry</i> , 2002, 277, 7477-7482.	1.6	36
21	The Active Site Loop of S-Adenosylmethionine Synthetase Modulates Catalytic Efficiency. <i>Biochemistry</i> , 2002, 41, 9358-9369.	1.2	28
22	Crystal Structure of Guanidinoacetate Methyltransferase from Rat Liver: A Model Structure of Protein Arginine Methyltransferase. <i>Journal of Molecular Biology</i> , 2002, 320, 223-235.	2.0	29
23	Evidence for a dimeric structure of rat liver serine dehydratase. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 533-543.	1.2	12
24	Anti-leukemia selectivity in actinomycin analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 719-725.	1.4	27
25	Crystallization and preliminary X-ray diffraction studies of d(ACGTAGCTACGT) ₂ :[actinomycin D, (echinomycin) ₂] and d(ACGTAGCTACGT) ₂ :[actinomycin D, (trioestin A) ₂] complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 344-347.	2.5	5
26	Natural and synthetic analogues of actinomycin D as Grb2-SH2 domain blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1455-1457.	1.0	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. <i>Journal of Molecular Biology</i> , 2000, 298, 149-162.	2.0	44
28	Effects of Site-directed Mutagenesis on Structure and Function of Recombinant Rat Liver S-Adenosylhomocysteine Hydrolase. <i>Journal of Biological Chemistry</i> , 2000, 275, 32147-32156.	1.6	40
29	Rat Liver Serine Dehydratase. <i>Journal of Biological Chemistry</i> , 1999, 274, 12855-12860.	1.6	15
30	Crystallization and preliminary X-ray diffraction studies of guanidinoacetate methyltransferase from rat liver. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1928-1929.	2.5	1
31	Crystal Structure of S-Adenosylhomocysteine Hydrolase from Rat Liver. <i>Biochemistry</i> , 1999, 38, 8323-8333.	1.2	105
32	Hydrogen bonding in tungsten(VI) salicylate free acids. Dedicated to Professor Daryle Busch on the occasion of his 70th birthday. <i>Coordination Chemistry Reviews</i> , 1998, 174, 255-282.	9.5	7
33	Structure, function and physiological role of glycine N-methyltransferase. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 13-26.	1.2	50
34	Selectivity of F8-actinomycin D for RNA:DNA hybrids and its anti-leukemia activity. <i>Bioorganic and Medicinal Chemistry</i> , 1997, 5, 1197-1207.	1.4	30
35	Crystal Structure of Glycine N-Methyltransferase from Rat Liver. <i>Biochemistry</i> , 1996, 35, 11985-11993.	1.2	105
36	Physical and Biological Characteristics of the Antitumor Drug Actinomycin D Analogues Derivatized at N-Methyl-L-valine Residues. <i>Biochemistry</i> , 1996, 35, 13240-13249.	1.2	16

#	ARTICLE	IF	CITATIONS
37	Studies on the Synthesis of Acanthodoral and Nanaimoal: Evaluation of Cationic Cyclization Routes. <i>Journal of Organic Chemistry</i> , 1996, 61, 8456-8463.	1.7	13
38	Structure and Function of S-Adenosylmethionine Synthetase: Crystal Structures of S-Adenosylmethionine Synthetase with ADP, BrADP, and PPI at 2.8 Å... Resolution. <i>Biochemistry</i> , 1996, 35, 2586-2596.	1.2	117
39	Flexible Loop in the Structure of S-Adenosylmethionine Synthetase Crystallized in the Tetragonal Modification. <i>Journal of Biomolecular Structure and Dynamics</i> , 1996, 13, 727-739.	2.0	30
40	Crystal Structure of S-Adenosylmethionine Synthetase. <i>Journal of Biological Chemistry</i> , 1996, 271, 136-147.	1.6	112
41	Crystal Structure of d-Erythroascorbic Acid. <i>Journal of Carbohydrate Chemistry</i> , 1995, 14, 1257-1263.	0.4	3
42	Structural, Physical, and Biological Characteristics of RNA:DNA Binding Agent N8-Actinomycin D. <i>Biochemistry</i> , 1995, 34, 8481-8491.	1.2	30
43	Multiple Binding Modes of Anticancer Drug Actinomycin D: X-ray, Molecular Modeling, and Spectroscopic Studies of d(GAAGCTTC)-Actinomycin D Complexes and Its Host DNA. <i>Journal of the American Chemical Society</i> , 1994, 116, 4154-4165.	6.6	88
44	Toward the Design of an RNA:DNA Hybrid Binding Agent. <i>Journal of the American Chemical Society</i> , 1994, 116, 2243-2253.	6.6	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. <i>Journal of the American Chemical Society</i> , 1994, 116, 7971-7982.	6.6	28
46	Ring size effects in phenol-phenolate tungsten (VI) chelates. <i>Journal of the American Chemical Society</i> , 1993, 115, 7916-7917.	6.6	17
47	Synthesis of Enantiopure <i>N</i> -tert-Butoxycarbonyl-2-aminocycloalkanones. <i>Synthetic Communications</i> , 1992, 22, 3003-3012.	1.1	17
48	Further Studies on Quinone Diels-Alder Reactions with 1,3,3-Trimethyl-2-vinylcyclohexenes: Regioselective Synthesis of 12-Methyl-podocarpene Diterpenes and Isolation of a Hetero Diels-Alder Product from 1,4-Benzoquinone. <i>Synthetic Communications</i> , 1992, 22, 2031-2042.	1.1	6
49	Crystal structure of the 2:1 complex between d(GAAGCTTC) and the anticancer drug actinomycin D. <i>Journal of Molecular Biology</i> , 1992, 225, 445-456.	2.0	157
50	Studies on diels-alder reactions of 1,3,3-trimethyl-2-vinylcyclohexene with 2-cyclohexenones. <i>Tetrahedron</i> , 1992, 48, 9399-9416.	1.0	25
51	Assymetric quinone-based Deils-Alder reactions. <i>Tetrahedron Letters</i> , 1992, 33, 6731-6734.	0.7	30
52	Syntheses and rearrangements of spirocyclic oxaziridines derived from unsymmetrical ketones. <i>Journal of Organic Chemistry</i> , 1991, 56, 499-508.	1.7	33
53	The Crystal Structure of d(GTACGTAC) at 2.25 Å... Resolution: Are the A-DNA's Always Unwound Approximately 10° at the C-G Steps?. <i>Journal of Biomolecular Structure and Dynamics</i> , 1990, 7, 795-809.	2.0	33
54	Synthetic aspects of an asymmetric nitrogen-insertion process: preparation of chiral, non-racemic caprolactams and valerolactams. Total synthesis of (-)-alloyohimbane. <i>Journal of the American Chemical Society</i> , 1990, 112, 4879-4891.	6.6	73

#	ARTICLE	IF	CITATIONS
55	A new general synthetic approach to diterpenes: application to syntheses of (+-)-taxodione and (+-)-royleanone. <i>Journal of Organic Chemistry</i> , 1989, 54, 5712-5727.	1.7	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. <i>Journal of Inclusion Phenomena</i> , 1988, 6, 515-521.	0.6	2
57	The role of the cyclic depsipeptide rings in antibiotics. <i>Journal of Antibiotics</i> , 1985, 38, 1596-1604.	1.0	24
58	Neutron diffraction study of lithium hydrogen phthalate monohydrate: A material with two very short intramolecular O-H...O hydrogen bonds. <i>Journal of Chemical Physics</i> , 1985, 82, 5636-5647.	1.2	54
59	The structure of a pseudo intercalated complex between actinomycin and the DNA binding sequence d(GpC). <i>Nature</i> , 1982, 296, 466-469.	13.7	117
60	Synthesis and x-ray crystal structure of [PPN] ⁺ 2[RuCl ₄ (CO) ₉ (1/42-CO) ₆] ₂ ⁻ . <i>Journal of Organometallic Chemistry</i> , 1981, 213, 365-377.	0.8	16
61	Isolation and characterization of penta-μ ₂ -carbonyl-decacarbonylpentarhodate(1-): a key product in rhodium carbonyl chemistry. <i>Journal of the American Chemical Society</i> , 1980, 102, 1740-1742.	6.6	80
62	Hydrogen bond studies. 85. A very short, asymmetrical, intramolecular hydrogen bond: A neutron diffraction study of pyridine-2,3-dicarboxylic acid (C ₇ H ₅ NO ₄). <i>Journal of Chemical Physics</i> , 1974, 60, 3866-3874.	1.2	71
63	The Crystal Structure of Pyrazinic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1974, 47, 1409-1413.	2.0	23
64	The Crystal Structure of Orotic Acid Monohydrate (Vitamin B13). <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2011-2019.	2.0	58
65	The Crystal Structure of Dipicolinic Acid Monohydrate. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2020-2027.	2.0	62
66	The Crystal Structure of Quinolinic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2372-2380.	2.0	25
67	The Crystal Structure of Cinchomeronic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2669-2675.	2.0	28
68	The Crystal Structure of Trimellitic Acid for the Pseudo-cell. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2960-2965.	2.0	14
69	The Crystal Structure of Hemimellitic Acid Dihydrate. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2998-3004.	2.0	17
70	THE CRYSTAL STRUCTURE OF PICOLINIC ACID. <i>Chemistry Letters</i> , 1973, 2, 1089-1090.	0.7	18
71	THE CRYSTAL STRUCTURE OF PYRAZINE-2,3-DICARBOXYLIC ACID DIHYDRATE. <i>Chemistry Letters</i> , 1973, 2, 1121-1122.	0.7	28
72	HYDROGEN BONDING OF PYRIDINE-CARBOXYLIC ACIDS IN SOLIDS. <i>Chemistry Letters</i> , 1973, 2, 1139-1142.	0.7	1

#	ARTICLE	IF	CITATIONS
73	The Crystal Structure of Dinicotinic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2292-2299.	2.0	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	2.0	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.	2.0	3