

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

172457

29
h-index

182427

51
g-index

87
all docs

87
docs citations

87
times ranked

2569
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.2	157
2	The structure of a pseudo intercalated complex between actinomycin and the DNA binding sequence d(GpC). <i>Nature</i> , 1982, 296, 466-469.	27.8	117
3	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.	2.5	117
4	Crystal Structure of S-Adenosylmethionine Synthetase. <i>Journal of Biological Chemistry</i> , 1996, 271, 136-147.	3.4	112
5	Crystal Structure of GlycineN-Methyltransferase from Rat Liver. <i>Biochemistry</i> , 1996, 35, 11985-11993.	2.5	105
6	Crystal Structure of S-Adenosylhomocysteine Hydrolase from Rat Liver. <i>Biochemistry</i> , 1999, 38, 8323-8333.	2.5	105
7	Crystal Structure of Human Prostaglandin F Synthase (AKR1C3). <i>Biochemistry</i> , 2004, 43, 2188-2198.	2.5	94
8	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.	2.5	92
9	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. <i>Journal of the American Chemical Society</i> , 1994, 116, 4154-4165.	13.7	88
10	Catalytic Mechanism of GlycineN-Methyltransferase. <i>Biochemistry</i> , 2003, 42, 8394-8402.	2.5	82
11	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.	13.7	80
12	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.	13.7	73
13	Crystal Structure of Serine Dehydratase from Rat Liver. <i>Biochemistry</i> , 2003, 42, 12854-12865.	2.5	72
14	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.	3.0	71
15	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.	4.2	65
16	The Crystal Structure of Dipicolinic Acid Monohydrate. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2020-2027.	3.2	62
17	A new general synthetic approach to diterpenes: application to syntheses of (+)-taxodione and (+)-royleanone. <i>Journal of Organic Chemistry</i> , 1989, 54, 5712-5727.	3.2	62
18	The Crystal Structure of Orotic Acid Monohydrate (Vitamin B13). <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2011-2019.	3.2	58

#	ARTICLE	IF	CITATIONS
19	The Crystal and Molecular Structure of Pyromellitic Acid Dihydrate (Benzene-1,2,4,5-tetracarboxylic) Tj ETQq1 1 0.784314 rgBT /Over	3.2	57
20	Neutron diffraction study of lithium hydrogen phthalate monohydrate: A material with two very short intramolecular Oâ€¦â€¦Hâ€¦â€¦O hydrogen bonds. Journal of Chemical Physics, 1985, 82, 5636-5647.	3.0	54
21	Structure, function and physiological role of glycine N-methyltransferase. International Journal of Biochemistry and Cell Biology, 1998, 30, 13-26.	2.8	50
22	Catalytic Mechanism of S-Adenosylhomocysteine Hydrolase. Journal of Biological Chemistry, 2002, 277, 22670-22676.	3.4	48
23	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
24	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
25	Inhibition of S-Adenosylhomocysteine Hydrolase by Acyclic Sugar Adenosine Analogue d-Eritadenine. Journal of Biological Chemistry, 2002, 277, 7477-7482.	3.4	36
26	The Crystal Structure of d(GTACGTAC) at 2.25 Å.. Resolution: Are the A-DNA's Always Unwound Approximately 10Å° at the C-G Steps?. Journal of Biomolecular Structure and Dynamics, 1990, 7, 795-809.	3.5	33
27	Syntheses and rearrangements of spirocyclic oxaziridines derived from unsymmetrical ketones. Journal of Organic Chemistry, 1991, 56, 499-508.	3.2	33
28	The Crystal Structure of Dinicotinic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2292-2299.	3.2	30
29	Assymetric quinone-based Deils-Alder reactions. Tetrahedron Letters, 1992, 33, 6731-6734.	1.4	30
30	Structural, Physical, and Biological Characteristics of RNA.cntdot.DNA Binding Agent N8-Actinomycin D. Biochemistry, 1995, 34, 8481-8491.	2.5	30
31	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
32	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
33	Catalytic Mechanism of Guanidinoacetate Methyltransferase:â€‰ Crystal Structures of Guanidinoacetate Methyltransferase Ternary Complexes,. Biochemistry, 2004, 43, 14385-14394.	2.5	30
34	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
35	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
36	PGH2 Degradation Pathway Catalyzed by GSHâ€…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

#	ARTICLE	IF	CITATIONS
37	The Crystal Structure of Cinchomeric Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2669-2675.	3.2	28
38	THE CRYSTAL STRUCTURE OF PYRAZINE-2,3-DICARBOXYLIC ACID DIHYDRATE. Chemistry Letters, 1973, 2, 1121-1122.	1.3	28
39	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
40	The Active Site Loop of S-Adenosylmethionine Synthetase Modulates Catalytic Efficiency. Biochemistry, 2002, 41, 9358-9369.	2.5	28
41	Anti-leukemia selectivity in actinomycin analogues. Bioorganic and Medicinal Chemistry, 2001, 9, 719-725.	3.0	27
42	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
43	The Crystal Structure of Quinolinic Acid. Bulletin of the Chemical Society of Japan, 1973, 46, 2372-2380.	3.2	25
44	Studies on diels-alder reactions of 1,3,3-trimethyl-2-vinylcyclohexene with 2-cyclohexenones. Tetrahedron, 1992, 48, 9399-9416.	1.9	25
45	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
46	The role of the cyclic depsipeptide rings in antibiotics. Journal of Antibiotics, 1985, 38, 1596-1604.	2.0	24
47	The Crystal Structure of Pyrazinic Acid. Bulletin of the Chemical Society of Japan, 1974, 47, 1409-1413.	3.2	23
48	THE CRYSTAL STRUCTURE OF PICOLINIC ACID. Chemistry Letters, 1973, 2, 1089-1090.	1.3	18
49	Toward the Design of an RNA:DNA Hybrid Binding Agent. Journal of the American Chemical Society, 1994, 116, 2243-2253.	13.7	18
50	The Crystal Structure of Hemimellitic Acid Dihydrate. Bulletin of the Chemical Society of Japan, 1973, 46, 2998-3004.	3.2	17
51	Synthesis of Enantiopure N-tert-Butoxycarbonyl-2-aminocycloalkanones. Synthetic Communications, 1992, 22, 3003-3012.	2.1	17
52	Ring size effects in phenol-phenolate tungsten (VI) chelates. Journal of the American Chemical Society, 1993, 115, 7916-7917.	13.7	17
53	Synthesis and x-ray crystal structure of [PPN] ⁺ ₂ [Ru ₄ (CO) ₉ ($\frac{1}{2}$ -CO) ₆] ₂ ⁻ . Journal of Organometallic Chemistry, 1981, 213, 365-377.	1.8	16
54	Physical and Biological Characteristics of the Antitumor Drug Actinomycin D Analogues Derivatized at N-Methyl-L-valine Residues. Biochemistry, 1996, 35, 13240-13249.	2.5	16

#	ARTICLE	IF	CITATIONS
55	Rat Liver Serine Dehydratase. <i>Journal of Biological Chemistry</i> , 1999, 274, 12855-12860.	3.4	15
56	The Crystal Structure of Trimellitic Acid for the Pseudo-cell. <i>Bulletin of the Chemical Society of Japan</i> , 1973, 46, 2960-2965.	3.2	14
57	Studies on the Synthesis of Acanthodoral and Nanaimoal: A Evaluation of Cationic Cyclization Routes. <i>Journal of Organic Chemistry</i> , 1996, 61, 8456-8463.	3.2	13
58	Evidence for a dimeric structure of rat liver serine dehydratase. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 533-543.	2.8	12
59	Natural and synthetic analogues of actinomycin D as Grb2-SH2 domain blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1455-1457.	2.2	11
60	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.	2.4	11
61	Some biochemical and histochemical properties of human liver serine dehydratase. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 574-589.	2.8	9
62	Enzymatic and biochemical properties of a novel human serine dehydratase isoform. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 961-971.	2.3	9
63	Discovery of Novel Types of Inhibitors of S-Adenosylmethionine Synthesis by Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5967-5973.	6.4	9
64	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.	2.3	8
65	Hydrogen bonding in tungsten(VI) salicylate free acids1Dedicated to Professor Daryle Busch on the occasion of his 70th birthday.1. <i>Coordination Chemistry Reviews</i> , 1998, 174, 255-282.	18.8	7
66	Monoclinic guanidinoacetate methyltransferase and gadolinium ion-binding characteristics. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1589-1596.	2.5	7
67	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. <i>Synthetic Communications</i> , 1992, 22, 2031-2042.	2.1	6
68	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.	2.8	6
69	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
70	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.	3.0	5
71	The Crystal Structure of Pyromellitic Acid Dihydrate (Benzene-1,2,4,5-tetracarboxylic Acid Dihydrate). <i>Bulletin of the Chemical Society of Japan</i> , 1969, 42, 3368-3368.	3.2	3
72	Crystal Structure of d-Erythroascorbic Acid. <i>Journal of Carbohydrate Chemistry</i> , 1995, 14, 1257-1263.	1.1	3

#	ARTICLE	IF	CITATIONS
73	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
74	HYDROGEN BONDING OF PYRIDINE-CARBOXYLIC ACIDS IN SOLIDS. <i>Chemistry Letters</i> , 1973, 2, 1139-1142.	1.3	1
75	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