

S Ramaswamy

List of Publications by Year in descending order

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122
papers

8,085
citations

50276

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144
docs citations

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times ranked

8202
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#	ARTICLE	IF	CITATIONS
1	Structure of recombinantly expressed cockroach Lili-Mip protein in glycosylated and deglycosylated forms. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130064.	2.4	3
2	Phenylalanine stacking enhances the red fluorescence of biliverdin IX β on UV excitation in sandercyanin fluorescent protein. <i>FEBS Letters</i> , 2022, 596, 796-805.	2.8	2
3	Modulation of biliverdin dynamics and spectral properties by Sandercyanin. <i>RSC Advances</i> , 2022, 12, 20296-20304.	3.6	0
4	Comparison of CryoEM and X-ray structures of dimethylformamidase. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 160, 66-78.	2.9	3
5	Quaternary variations in the structural assembly of N-acetylglucosamine-6-phosphate deacetylase from <i>Pasteurella multocida</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 81-93.	2.6	5
6	Cryo-Electron Microscopy Structures of Yeast Alcohol Dehydrogenase. <i>Biochemistry</i> , 2021, 60, 663-677.	2.5	12
7	Alternative binding modes in abortive NADH-alcohol complexes of horse liver alcohol dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 2021, 701, 108825.	3.0	5
8	Glycomic and glycotranscriptomic profiling of mucin-type O-glycans in planarian <i>Schmidtea mediterranea</i> . <i>Glycobiology</i> , 2021, , .	2.5	0
9	N-acetylmannosamine-6-phosphate 2-epimerase uses a novel substrate-assisted mechanism to catalyze amino sugar epimerization. <i>Journal of Biological Chemistry</i> , 2021, 297, 101113.	3.4	4
10	The basis for non-canonical ROK family function in the N-acetylmannosamine kinase from the pathogen <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 3301-3315.	3.4	13
11	Structure and Function of N-Acetylmannosamine Kinases from Pathogenic Bacteria. <i>ACS Omega</i> , 2020, 5, 30923-30936.	3.5	8
12	A Tyr ¹ -carboxylate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16961-16966.	13.8	14
13	A Tyr ¹ -carboxylate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. <i>Angewandte Chemie</i> , 2020, 132, 17109-17114.	2.0	0
14	A perspective on challenges and opportunities in characterizing oral cancer stem cells. <i>Frontiers in Bioscience - Landmark</i> , 2020, 25, 1011-1021.	3.0	5
15	The resolution revolution reaches India. <i>Biophysical Reviews</i> , 2019, 11, 513-514.	3.2	4
16	Serotonin is essential for eye regeneration in planaria <i>Schmidtea mediterranea</i> . <i>FEBS Letters</i> , 2019, 593, 3198-3209.	2.8	9
17	Molecular basis for metabolite channeling in a ring opening enzyme of the phenylacetate degradation pathway. <i>Nature Communications</i> , 2019, 10, 4127.	12.8	14
18	Structural and functional characterization of CMP-N-acetylneuraminatase synthetase from <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 564-577.	2.3	1

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19	Identification of multiple isomeric core chitobiose‐modified high-mannose and paucimannose N-glycans in the planarian <i>Schmidtea mediterranea</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 6707-6720.	3.4	9
20	Automation aided optimization of cloning, expression and purification of enzymes of the bacterial sialic acid catabolic and sialylation pathways enzymes for structural studies. <i>Microbial Biotechnology</i> , 2018, 11, 420-428.	4.2	10
21	‐Just a spoonful of sugar...‐ import of sialic acid across bacterial cell membranes. <i>Biophysical Reviews</i> , 2018, 10, 219-227.	3.2	29
22	Molecular characterization of the interaction of sialic acid with the periplasmic binding protein from <i>Haemophilus ducreyi</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 20073-20084.	3.4	8
23	The Sodium Sialic Acid Symporter From <i>Staphylococcus aureus</i> Has Altered Substrate Specificity. <i>Frontiers in Chemistry</i> , 2018, 6, 233.	3.6	24
24	Crystal structures and kinetic analyses of N-acetylmannosamine-6-phosphate 2-epimerases from <i>Fusobacterium nucleatum</i> and <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 431-440.	0.8	6
25	Substrate-bound outward-open structure of a Na ⁺ -coupled sialic acid symporter reveals a new Na ⁺ site. <i>Nature Communications</i> , 2018, 9, 1753.	12.8	62
26	The New Era of Microcrystallography. <i>Journal of the Indian Institute of Science</i> , 2018, 98, 273-281.	1.9	4
27	Decreased expression of cell adhesion genes in cancer stem-like cells isolated from primary oral squamous cell carcinomas. <i>Tumor Biology</i> , 2018, 40, 101042831878085.	1.8	8
28	Crystal structures and kinetics of N-acetylneuraminatase lyase from <i>Fusobacterium nucleatum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 725-732.	0.8	5
29	Horse Liver Alcohol Dehydrogenase: Zinc Coordination and Catalysis. <i>Biochemistry</i> , 2017, 56, 3632-3646.	2.5	38
30	One enzyme, many reactions: structural basis for the various reactions catalyzed by naphthalene 1,2-dioxygenase. <i>IUCr</i> , 2017, 4, 648-656.	2.2	27
31	Crystal structure of N-acetylmannosamine kinase from <i>Fusobacterium nucleatum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 356-362.	0.8	8
32	Structural and functional studies of ferredoxin and oxygenase components of 3-nitrotoluene dioxygenase from <i>Diaphorobacter</i> sp. strain DS2. <i>PLoS ONE</i> , 2017, 12, e0176398.	2.5	17
33	Structure of a heterogeneous, glycosylated, lipid-bound, <i>in vivo</i> -grown protein crystal at atomic resolution from the viviparous cockroach <i>Diploptera punctata</i> . <i>IUCr</i> , 2016, 3, 282-293.	2.2	28
34	Blue protein with red fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11513-11518.	7.1	30
35	Mechanistic implications from structures of yeast alcohol dehydrogenase complexed with coenzyme and an alcohol. <i>Archives of Biochemistry and Biophysics</i> , 2016, 591, 35-42.	3.0	35
36	First international workshops on Provocative Questions (PQ) in cancer research, October‐November 2014, New Delhi, Bengaluru, and Thiruvananthapuram, India. <i>Journal of Cancer Policy</i> , 2015, 6, 33-36.	1.4	2

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37	Genome sequencing of herb Tulsi (<i>Ocimum tenuiflorum</i>) unravels key genes behind its strong medicinal properties. <i>BMC Plant Biology</i> , 2015, 15, 212.	3.6	80
38	Crystal Structure of a Complex of NOD1 CARD and Ubiquitin. <i>PLoS ONE</i> , 2014, 9, e104017.	2.5	14
39	Bacterial periplasmic sialic acid-binding proteins exhibit a conserved binding site. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1801-1811.	2.5	38
40	Yeast Alcohol Dehydrogenase Structure and Catalysis. <i>Biochemistry</i> , 2014, 53, 5791-5803.	2.5	140
41	<i>In vivo</i> crystallography at X-ray free-electron lasers: the next generation of structural biology?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130497.	4.0	39
42	Expression, purification and substrate specificities of 3-nitrotoluene dioxygenase from <i>Diaphorobacter</i> sp. strain DS2. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 36-42.	2.1	12
43	Ubiquitin Regulates Caspase Recruitment Domain-mediated Signaling by Nucleotide-binding Oligomerization Domain-containing Proteins NOD1 and NOD2. <i>Journal of Biological Chemistry</i> , 2013, 288, 6890-6902.	3.4	35
44	Atomic-Resolution Structures of Horse Liver Alcohol Dehydrogenase with NAD ⁺ and Fluoroalcohols Define Strained Michaelis Complexes. <i>Biochemistry</i> , 2012, 51, 4035-4048.	2.5	39
45	One Atom Makes All the Difference. <i>Science</i> , 2011, 334, 914-915.	12.6	7
46	Structure of monoubiquitinated PCNA and implications for translesion synthesis and DNA polymerase exchange. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 479-484.	8.2	98
47	WD40 Repeat Propellers Define a Ubiquitin-Binding Domain that Regulates Turnover of F Box Proteins. <i>Molecular Cell</i> , 2010, 40, 433-443.	9.7	114
48	The Tiam1 PDZ Domain Couples to Syndecan1 and Promotes Cellâ€“Matrix Adhesion. <i>Journal of Molecular Biology</i> , 2010, 398, 730-746.	4.2	51
49	PLUNC Is a Novel Airway Surfactant Protein with Anti-Biofilm Activity. <i>PLoS ONE</i> , 2010, 5, e9098.	2.5	103
50	Missense mutations that cause Van der Woude syndrome and popliteal pterygium syndrome affect the DNA-binding and transcriptional activation functions of IRF6. <i>Human Molecular Genetics</i> , 2009, 18, 1544-1544.	2.9	0
51	Missense mutations that cause Van der Woude syndrome and popliteal pterygium syndrome affect the DNA-binding and transcriptional activation functions of IRF6. <i>Human Molecular Genetics</i> , 2009, 18, 535-545.	2.9	75
52	Structures of the multicomponent Rieske non-heme iron toluene 2,3-dioxygenase enzyme system. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 24-33.	2.5	52
53	A charged residue at the subunit interface of PCNA promotes trimer formation by destabilizing alternate subunit interactions. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 560-566.	2.5	12
54	Structural basis of phosphodiesterase 6 inhibition by the C-terminal region of the Î³-subunit. <i>EMBO Journal</i> , 2009, 28, 3613-3622.	7.8	57

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55	Purification and properties of Sander cyanin, a blue protein secreted in the mucus of blue forms of walleye, <i>Sander vitreus</i> . <i>Environmental Biology of Fishes</i> , 2008, 82, 51-58.	1.0	11
56	Medium- and short-chain dehydrogenase/reductase gene and protein families. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 3907-3917.	5.4	55
57	Determining Rieske cluster reduction potentials. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1301-1313.	2.6	44
58	Non-heme iron-dependent dioxygenases: unravelling catalytic mechanisms for complex enzymatic oxidations. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 134-140.	6.1	200
59	Structure of a Mutant Form of Proliferating Cell Nuclear Antigen That Blocks Translesion DNA Synthesis. <i>Biochemistry</i> , 2008, 47, 13354-13361.	2.5	31
60	Characterization of the N-Acetyl-5-neuraminic Acid-binding Site of the Extracytoplasmic Solute Receptor (SiaP) of Nontypeable <i>Haemophilus influenzae</i> Strain 2019. <i>Journal of Biological Chemistry</i> , 2008, 283, 855-865.	3.4	79
61	Crystal structure of the Nod1 caspase activation and recruitment domain. <i>Biochemical and Biophysical Research Communications</i> , 2007, 353, 1-5.	2.1	52
62	Quality of protein crystal structures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 941-950.	2.5	55
63	Structural investigations of the ferredoxin and terminal oxygenase components of the biphenyl 2,3-dioxygenase from <i>Sphingobium yanoikuyae</i> B1. <i>BMC Structural Biology</i> , 2007, 7, 10.	2.3	73
64	Purification, characterization, and crystallization of the components of a biphenyl dioxygenase system from <i>Sphingobium yanoikuyae</i> B1. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 311-324.	3.0	31
65	Molecular Basis for Nucleotide-binding Specificity: Role of the Exocyclic Amino Group $\epsilon\text{-N}_2$ in Recognition by a Guanylyl-ribonuclease. <i>Journal of Molecular Biology</i> , 2006, 355, 72-84.	4.2	6
66	Structures of Ubiquitin Insertion Mutants Support Site-specific Reflex Response to Insertions Hypothesis. <i>Journal of Molecular Biology</i> , 2006, 359, 390-402.	4.2	6
67	Structural basis for myosin V discrimination between distinct cargoes. <i>EMBO Journal</i> , 2006, 25, 693-700.	7.8	118
68	Structural Basis for Regioselectivity and Stereoselectivity of Product Formation by Naphthalene 1,2-Dioxygenase. <i>Journal of Bacteriology</i> , 2006, 188, 6986-6994.	2.2	55
69	NO binding to naphthalene dioxygenase. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 483-489.	2.6	17
70	Purification, crystallization and preliminary X-ray diffraction studies of the three components of the toluene 2,3-dioxygenase enzyme system. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 669-672.	0.7	7
71	Structure and Increased Thermostability of <i>Rhodococcus</i> sp. Naphthalene 1,2-Dioxygenase. <i>Journal of Bacteriology</i> , 2005, 187, 7222-7231.	2.2	51
72	Purification, Characterization, and Crystallization of the Components of the Nitrobenzene and 2-Nitrotoluene Dioxygenase Enzyme Systems. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3806-3814.	3.1	41

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73	Structural Insight into the Dioxygenation of Nitroarene Compounds: the Crystal Structure of Nitrobenzene Dioxygenase. <i>Journal of Molecular Biology</i> , 2005, 348, 1139-1151.	4.2	114
74	Rieske business: Structure and function of Rieske non-heme oxygenases. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 175-190.	2.1	307
75	The Crystal Structure of Synechocystis Hemoglobin with a Covalent Heme Linkage. <i>Journal of Biological Chemistry</i> , 2004, 279, 16535-16542.	3.4	65
76	Isolation of an endotoxin-MD-2 complex that produces Toll-like receptor 4-dependent cell activation at picomolar concentrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4186-4191.	7.1	336
77	Participation of Histidine-51 in Catalysis by Horse Liver Alcohol Dehydrogenase. <i>Biochemistry</i> , 2004, 43, 3014-3026.	2.5	50
78	Tetrameric NAD-dependent alcohol dehydrogenase. <i>Chemico-Biological Interactions</i> , 2003, 143-144, 239-245.	4.0	41
79	The crystal structure of nitrobenzene 1,2-dioxygenase. <i>Journal of Inorganic Biochemistry</i> , 2003, 96, 132.	3.5	1
80	Expression and preliminary crystallographic studies of R1E, the large subunit of ribonucleotide reductase from <i>Salmonella typhimurium</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1081-1083.	2.5	4
81	Structure and Energetics of Protein-Protein Interactions: The Role of Conformational Heterogeneity in OMTKY3 Binding to Serine Proteases. <i>Journal of Molecular Biology</i> , 2003, 331, 497-508.	4.2	47
82	Structure of thioredoxin from <i>Trypanosoma brucei brucei</i> . <i>FEBS Letters</i> , 2003, 554, 301-305.	2.8	25
83	Crystal Structure of Naphthalene Dioxygenase: Side-on Binding of Dioxygen to Iron. <i>Science</i> , 2003, 299, 1039-1042.	12.6	498
84	X-ray Crystal Structure of Benzoate 1,2-Dioxygenase Reductase from <i>Acinetobacter</i> sp. Strain ADP1. <i>Journal of Molecular Biology</i> , 2002, 318, 261-272.	4.2	57
85	Structural Basis for Thermophilic Protein Stability: Structures of Thermophilic and Mesophilic Malate Dehydrogenases. <i>Journal of Molecular Biology</i> , 2002, 318, 707-721.	4.2	98
86	Crystallization and preliminary X-ray diffraction analysis of naphthalene dioxygenase from <i>Rhodococcus</i> sp. strain NCIMB 12038. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2173-2174.	2.5	8
87	Contributions of Valine-292 in the Nicotinamide Binding Site of Liver Alcohol Dehydrogenase and Dynamics to Catalysis. <i>Biochemistry</i> , 2001, 40, 12686-12694.	2.5	51
88	Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1776-1785.	2.5	5
89	Structural basis for substrate specificities of cellular deoxyribonucleoside kinases. <i>Nature Structural Biology</i> , 2001, 8, 616-620.	9.7	118
90	Crystal structure of sorbitol dehydrogenase. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 351-358.	4.0	38

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91	How does light regulate chloroplast enzymes? Structureâ€“function studies of the ferredoxin/thioredoxin system. Quarterly Reviews of Biophysics, 2000, 33, 67-108.	5.7	51
92	Pseudo-symmetry characterization and refinement of a trigonal crystal form of naphthalene 1,2-dioxygenase. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 313-321.	2.5	3
93	The reduction of the Rieske ironâ€“sulfur cluster in naphthalene dioxygenase by X-rays. Journal of Inorganic Biochemistry, 2000, 78, 83-87.	3.5	35
94	Substrate binding site of naphthalene 1,2-dioxygenase: functional implications of indole binding 1 Edited by D. C. Rees. Journal of Molecular Biology, 2000, 296, 701-712.	4.2	149
95	Redox Signaling in Chloroplasts: Cleavage of Disulfides by an Iron-Sulfur Cluster. Science, 2000, 287, 655-658.	12.6	194
96	Structural Basis for Light Activation of a Chloroplast Enzyme:â€“ The Structure of Sorghum NADP-Malate Dehydrogenase in Its Oxidized Formâ€“,â€“. Biochemistry, 1999, 38, 4319-4326.	2.5	91
97	Substitutions in a Flexible Loop of Horse Liver Alcohol Dehydrogenase Hinder the Conformational Change and Unmask Hydrogen Transfer,. Biochemistry, 1999, 38, 13951-13959.	2.5	86
98	Crystal Structure of NAD(P)H:Flavin Oxidoreductase from Escherichia coli,. Biochemistry, 1999, 38, 7040-7049.	2.5	86
99	Dynamics in Alcohol Dehydrogenase Elucidated from Crystallographic Investigations. Advances in Experimental Medicine and Biology, 1999, 463, 275-284.	1.6	4
100	Uncompetitive Inhibitors of Alcohol Dehydrogenases. Advances in Experimental Medicine and Biology, 1999, 463, 295-303.	1.6	3
101	Structure and Function of Betaine Aldehyde Dehydrogenase. Advances in Experimental Medicine and Biology, 1999, 463, 39-44.	1.6	2
102	Complete Structure of the 11-Subunit Bovine Mitochondrial Cytochrome bc1 Complex. , 1998, 281, 64-71.		1,150
103	Structure of a cephalosporin synthase. Nature, 1998, 394, 805-809.	27.8	344
104	Structure of an aromatic-ring-hydroxylating dioxygenase â€“ naphthalene 1,2-dioxygenase. Structure, 1998, 6, 571-586.	3.3	512
105	Structure of betaine aldehyde dehydrogenase at 2.1 Å... resolution. Protein Science, 1998, 7, 2106-2117.	7.6	138
106	The three-dimensional structures of two toxins from snake venom throw light on the anticoagulant and neurotoxic sites of phospholipase A2. Toxicon, 1998, 36, 75-92.	1.6	71
107	Binding of Formamides to Liver Alcohol Dehydrogenaseâ€“,â€“. Biochemistry, 1997, 36, 3522-3527.	2.5	63
108	Flexibility of Liver Alcohol Dehydrogenase in Stereoselective Binding of 3-Butylthiolane 1-Oxides,. Biochemistry, 1997, 36, 382-389.	2.5	62

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109	Purification and Crystallization of the Oxygenase Component of Naphthalene Dioxygenase in Native and Selenomethionine-Derivatized Forms. <i>Biochemical and Biophysical Research Communications</i> , 1997, 241, 553-557.	2.1	27
110	Crystallographic investigation of the dependence of calcium and phosphate ions for notexin. <i>FEBS Letters</i> , 1997, 403, 51-56.	2.8	7
111	Binding of allosteric effectors to ribonucleotide reductase protein R1: reduction of active-site cysteines promotes substrate binding. <i>Structure</i> , 1997, 5, 1077-1092.	3.3	247
112	The Three-dimensional Structure of Mammalian Ribonucleotide Reductase Protein R2 Reveals a More-accessible Iron-radical Site than <i>Escherichia coli</i> R2. <i>Journal of Molecular Biology</i> , 1996, 262, 706-720.	4.2	151
113	Crystal Structure of <i>Arabidopsis thaliana</i> NADPH Dependent Thioredoxin Reductase at 2.5 Å... Resolution. <i>Journal of Molecular Biology</i> , 1996, 264, 1044-1057.	4.2	96
114	Crystal structure of cod liver class I alcohol dehydrogenase: Substrate pocket and structurally variable segments. <i>Protein Science</i> , 1996, 5, 663-671.	7.6	49
115	Crystallizations of Novel Forms of Alcohol Dehydrogenase. <i>Advances in Experimental Medicine and Biology</i> , 1995, 372, 365-371.	1.6	3
116	Crystallographic investigations of alcohol dehydrogenases. , 1994, 71, 269-277.		4
117	Crystallization and Preliminary Crystallographic Studies of <i>Saccharomyces cerevisiae</i> Alcohol Dehydrogenase I. <i>Journal of Molecular Biology</i> , 1994, 235, 777-779.	4.2	33
118	Crystallisation and crystallographic investigations of cod alcohol dehydrogenase class I and class III enzymes. <i>FEBS Letters</i> , 1994, 350, 122-124.	2.8	7
119	Structures of Horse Liver Alcohol Dehydrogenase Complexed with NAD ⁺ and Substituted Benzyl Alcohols. <i>Biochemistry</i> , 1994, 33, 5230-5237.	2.5	196
120	Crystal and molecular structures of propanediamine complexed with L- and DL-glutamic acid: effect of chirality on propanediamine. <i>Acta Crystallographica Section B: Structural Science</i> , 1992, 48, 488-492.	1.8	1
121	Crystal structure of cadaverine dihydrochloride monohydrate. <i>Indian Journal of Biochemistry and Biophysics</i> , 1992, 29, 402-6.	0.0	0
122	Crystal and molecular structure of sym-homospermidine monohydrate. <i>Indian Journal of Biochemistry and Biophysics</i> , 1991, 28, 504-12.	0.0	1