## S Ramaswamy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Complete Structure of the 11-Subunit Bovine Mitochondrial Cytochrome bc1 Complex. , 1998, 281, 64-71.		1,150
2	Structure of an aromatic-ring-hydroxylating dioxygenase – naphthalene 1,2-dioxygenase. Structure, 1998, 6, 571-586.	3.3	512
3	Crystal Structure of Naphthalene Dioxygenase: Side-on Binding of Dioxygen to Iron. Science, 2003, 299, 1039-1042.	12.6	498
4	Structure of a cephalosporin synthase. Nature, 1998, 394, 805-809.	27.8	344
5	Isolation of an endotoxin–MD-2 complex that produces Toll-like receptor 4-dependent cell activation at picomolar concentrations. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4186-4191.	7.1	336
6	Rieske business: Structure–function of Rieske non-heme oxygenases. Biochemical and Biophysical Research Communications, 2005, 338, 175-190.	2.1	307
7	Binding of allosteric effectors to ribonucleotide reductase protein R1: reduction of active-site cysteines promotes substrate binding. Structure, 1997, 5, 1077-1092.	3.3	247
8	Non-heme iron-dependent dioxygenases: unravelling catalytic mechanisms for complex enzymatic oxidations. Current Opinion in Chemical Biology, 2008, 12, 134-140.	6.1	200
9	Structures of Horse Liver Alcohol Dehydrogenase Complexed with NAD+ and Substituted Benzyl Alcohols. Biochemistry, 1994, 33, 5230-5237.	2.5	196
10	Redox Signaling in Chloroplasts: Cleavage of Disulfides by an Iron-Sulfur Cluster. Science, 2000, 287, 655-658.	12.6	194
11	The Three-dimensional Structure of Mammalian Ribonucleotide Reductase Protein R2 Reveals a More-accessible Iron-radical Site thanEscherichia coliR2. Journal of Molecular Biology, 1996, 262, 706-720.	4.2	151
12	Substrate binding site of naphthalene 1,2-dioxygenase: functional implications of indole binding 1 1Edited by D. C. Rees. Journal of Molecular Biology, 2000, 296, 701-712.	4.2	149
13	Yeast Alcohol Dehydrogenase Structure and Catalysis. Biochemistry, 2014, 53, 5791-5803.	2.5	140
14	Structure of betaine aldehyde dehydrogenase at 2.1 Ã resolution. Protein Science, 1998, 7, 2106-2117.	7.6	138
15	Structural basis for substrate specificities of cellular deoxyribonucleoside kinases. Nature Structural Biology, 2001, 8, 616-620.	9.7	118
16	Structural basis for myosin V discrimination between distinct cargoes. EMBO Journal, 2006, 25, 693-700.	7.8	118
17	Structural Insight into the Dioxygenation of Nitroarene Compounds: the Crystal Structure of Nitrobenzene Dioxygenase. Journal of Molecular Biology, 2005, 348, 1139-1151.	4.2	114
18	WD40 Repeat Propellers Define a Ubiquitin-Binding Domain that Regulates Turnover of F Box Proteins. Molecular Cell, 2010, 40, 433-443.	9.7	114

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19	PLUNC Is a Novel Airway Surfactant Protein with Anti-Biofilm Activity. PLoS ONE, 2010, 5, e9098.	2.5	103
20	Structural Basis for Thermophilic Protein Stability: Structures of Thermophilic and Mesophilic Malate Dehydrogenases. Journal of Molecular Biology, 2002, 318, 707-721.	4.2	98
21	Structure of monoubiquitinated PCNA and implications for translesion synthesis and DNA polymerase exchange. Nature Structural and Molecular Biology, 2010, 17, 479-484.	8.2	98
22	Crystal Structure ofArabidopsis thalianaNADPH Dependent Thioredoxin Reductase at 2.5 Ã Resolution. Journal of Molecular Biology, 1996, 264, 1044-1057.	4.2	96
23	Structural Basis for Light Activation of a Chloroplast Enzyme:Â The Structure of Sorghum NADP-Malate Dehydrogenase in Its Oxidized Formâ€,‡. Biochemistry, 1999, 38, 4319-4326.	2.5	91
24	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
25	Crystal Structure of NAD(P)H:Flavin Oxidoreductase from Escherichia coli,. Biochemistry, 1999, 38, 7040-7049.	2.5	86
26	Genome sequencing of herb Tulsi (Ocimum tenuiflorum) unravels key genes behind its strong medicinal properties. BMC Plant Biology, 2015, 15, 212.	3.6	80
27	Characterization of the N-Acetyl-5-neuraminic Acid-binding Site of the Extracytoplasmic Solute Receptor (SiaP) of Nontypeable Haemophilus influenzae Strain 2019. Journal of Biological Chemistry, 2008, 283, 855-865.	3.4	79
28	Missense mutations that cause Van der Woude syndrome and popliteal pterygium syndrome affect the DNA-binding and transcriptional activation functions of IRF6. Human Molecular Genetics, 2009, 18, 535-545.	2.9	75
29	Structural investigations of the ferredoxin and terminal oxygenase components of the biphenyl 2,3-dioxygenase from Sphingobium yanoikuyae B1. BMC Structural Biology, 2007, 7, 10.	2.3	73
30	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
31	The Crystal Structure of Synechocystis Hemoglobin with a Covalent Heme Linkage. Journal of Biological Chemistry, 2004, 279, 16535-16542.	3.4	65
32	Binding of Formamides to Liver Alcohol Dehydrogenaseâ€,‡. Biochemistry, 1997, 36, 3522-3527.	2.5	63
33	Flexibility of Liver Alcohol Dehydrogenase in Stereoselective Binding of 3-Butylthiolane 1-Oxides,. Biochemistry, 1997, 36, 382-389.	2.5	62
34	Substrate-bound outward-open structure of a Na+-coupled sialic acid symporter reveals a new Na+ site. Nature Communications, 2018, 9, 1753.	12.8	62
35	X-ray Crystal Structure of Benzoate 1,2-Dioxygenase Reductase from Acinetobacter sp. Strain ADP1. Journal of Molecular Biology, 2002, 318, 261-272.	4.2	57
36	Structural basis of phosphodiesterase 6 inhibition by the C-terminal region of the Î <sup>3</sup> -subunit. EMBO Journal, 2009, 28, 3613-3622.	7.8	57

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37	Structural Basis for Regioselectivity and Stereoselectivity of Product Formation by Naphthalene 1,2-Dioxygenase. Journal of Bacteriology, 2006, 188, 6986-6994.	2.2	55
38	Quality of protein crystal structures. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 941-950.	2.5	55
39	Medium- and short-chain dehydrogenase/reductase gene and protein families. Cellular and Molecular Life Sciences, 2008, 65, 3907-3917.	5.4	55
40	Crystal structure of the Nod1 caspase activation and recruitment domain. Biochemical and Biophysical Research Communications, 2007, 353, 1-5.	2.1	52
41	Structures of the multicomponent Rieske non-heme iron toluene 2,3-dioxygenase enzyme system. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 24-33.	2.5	52
42	How does light regulate chloroplast enzymes? Structure–function studies of the ferredoxin/thioredoxin system. Quarterly Reviews of Biophysics, 2000, 33, 67-108.	5.7	51
43	Contributions of Valine-292 in the Nicotinamide Binding Site of Liver Alcohol Dehydrogenase and Dynamics to Catalysisâ€,‡. Biochemistry, 2001, 40, 12686-12694.	2.5	51
44	Structure and Increased Thermostability of Rhodococcus sp. Naphthalene 1,2-Dioxygenase. Journal of Bacteriology, 2005, 187, 7222-7231.	2.2	51
45	The Tiam1 PDZ Domain Couples to Syndecan1 and Promotes Cell–Matrix Adhesion. Journal of Molecular Biology, 2010, 398, 730-746.	4.2	51
46	Participation of Histidine-51 in Catalysis by Horse Liver Alcohol Dehydrogenaseâ€,‡. Biochemistry, 2004, 43, 3014-3026.	2.5	50
47	Crystal structure of cod liver class I alcohol dehydrogenase: Substrate pocket and structurally variable segments. Protein Science, 1996, 5, 663-671.	7.6	49
48	Structure and Energetics of Protein–Protein Interactions: The Role of Conformational Heterogeneity in OMTKY3 Binding to Serine Proteases. Journal of Molecular Biology, 2003, 331, 497-508.	4.2	47
49	Determining Rieske cluster reduction potentials. Journal of Biological Inorganic Chemistry, 2008, 13, 1301-1313.	2.6	44
50	Tetrameric NAD-dependent alcohol dehydrogenase. Chemico-Biological Interactions, 2003, 143-144, 239-245.	4.0	41
51	Purification, Characterization, and Crystallization of the Components of the Nitrobenzene and 2-Nitrotoluene Dioxygenase Enzyme Systems. Applied and Environmental Microbiology, 2005, 71, 3806-3814.	3.1	41
52	Atomic-Resolution Structures of Horse Liver Alcohol Dehydrogenase with NAD <sup>+</sup> and Fluoroalcohols Define Strained Michaelis Complexes. Biochemistry, 2012, 51, 4035-4048.	2.5	39
53	<i>In vivo</i> crystallography at X-ray free-electron lasers: the next generation of structural biology?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130497.	4.0	39
54	Crystal structure of sorbitol dehydrogenase. Chemico-Biological Interactions, 2001, 130-132, 351-358.	4.0	38

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55	Bacterial periplasmic sialic acid-binding proteins exhibit a conserved binding site. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1801-1811.	2.5	38
56	Horse Liver Alcohol Dehydrogenase: Zinc Coordination and Catalysis. Biochemistry, 2017, 56, 3632-3646.	2.5	38
57	The reduction of the Rieske iron–sulfur cluster in naphthalene dioxygenase by X-rays. Journal of Inorganic Biochemistry, 2000, 78, 83-87.	3.5	35
58	Ubiquitin Regulates Caspase Recruitment Domain-mediated Signaling by Nucleotide-binding Oligomerization Domain-containing Proteins NOD1 and NOD2. Journal of Biological Chemistry, 2013, 288, 6890-6902.	3.4	35
59	Mechanistic implications from structures of yeast alcohol dehydrogenase complexed with coenzyme and an alcohol. Archives of Biochemistry and Biophysics, 2016, 591, 35-42.	3.0	35
60	Crystallization and Preliminary Crystallographic Studies of Saccharomyces cerevisiae Alcohol Dehydrogenase I. Journal of Molecular Biology, 1994, 235, 777-779.	4.2	33
61	Purification, characterization, and crystallization of the components of a biphenyl dioxygenase system from Sphingobium yanoikuyae B1. Journal of Industrial Microbiology and Biotechnology, 2007, 34, 311-324.	3.0	31
62	Structure of a Mutant Form of Proliferating Cell Nuclear Antigen That Blocks Translesion DNA Synthesis. Biochemistry, 2008, 47, 13354-13361.	2.5	31
63	Blue protein with red fluorescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11513-11518.	7.1	30
64	"Just a spoonful of sugar― import of sialic acid across bacterial cell membranes. Biophysical Reviews, 2018, 10, 219-227.	3.2	29
65	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> . IUCrJ, 2016, 3, 282-293.	2.2	28
66	Purification and Crystallization of the Oxygenase Component of Naphthalene Dioxygenase in Native and Selenomethionine-Derivatized Forms. Biochemical and Biophysical Research Communications, 1997, 241, 553-557.	2.1	27
67	One enzyme, many reactions: structural basis for the various reactions catalyzed by naphthalene 1,2-dioxygenase. IUCrJ, 2017, 4, 648-656.	2.2	27
68	Structure of thioredoxin fromTrypanosoma brucei brucei. FEBS Letters, 2003, 554, 301-305.	2.8	25
69	The Sodium Sialic Acid Symporter From Staphylococcus aureus Has Altered Substrate Specificity. Frontiers in Chemistry, 2018, 6, 233.	3.6	24
70	NO binding to naphthalene dioxygenase. Journal of Biological Inorganic Chemistry, 2005, 10, 483-489.	2.6	17
71	Structural and functional studies of ferredoxin and oxygenase components of 3-nitrotoluene dioxygenase from Diaphorobacter sp. strain DS2. PLoS ONE, 2017, 12, e0176398.	2.5	17
72	Crystal Structure of a Complex of NOD1 CARD and Ubiquitin. PLoS ONE, 2014, 9, e104017.	2.5	14

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73	Molecular basis for metabolite channeling in a ring opening enzyme of the phenylacetate degradation pathway. Nature Communications, 2019, 10, 4127.	12.8	14
74	A 2â€Tyrâ€1â€carboxylate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. Angewandte Chemie - International Edition, 2020, 59, 16961-16966.	13.8	14
75	The basis for non-canonical ROK family function in the N-acetylmannosamine kinase from the pathogen Staphylococcus aureus. Journal of Biological Chemistry, 2020, 295, 3301-3315.	3.4	13
76	A charged residue at the subunit interface of PCNA promotes trimer formation by destabilizing alternate subunit interactions. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 560-566.	2.5	12
77	Expression, purification and substrate specificities of 3-nitrotoluene dioxygenase from Diaphorobacter sp. strain DS2. Biochemical and Biophysical Research Communications, 2014, 445, 36-42.	2.1	12
78	Cryo-Electron Microscopy Structures of Yeast Alcohol Dehydrogenase. Biochemistry, 2021, 60, 663-677.	2.5	12
79	Purification and properties of Sandercyanin, a blue protein secreted in the mucus of blue forms of walleye, Sander vitreus. Environmental Biology of Fishes, 2008, 82, 51-58.	1.0	11
80	Automation aided optimization of cloning, expression and purification of enzymes of the bacterial sialic acid catabolic and sialylation pathways enzymes for structural studies. Microbial Biotechnology, 2018, 11, 420-428.	4.2	10
81	Identification of multiple isomeric core chitobiose–modified high-mannose and paucimannose N-glycans in the planarian Schmidtea mediterranea. Journal of Biological Chemistry, 2018, 293, 6707-6720.	3.4	9
82	Serotonin is essential for eye regeneration in planariaSchmidteaÂmediterranea. FEBS Letters, 2019, 593, 3198-3209.	2.8	9
83	Crystallization and preliminary X-ray diffraction analysis of naphthalene dioxygenase fromRhodococcussp. strain NCIMB 12038. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 2173-2174.	2.5	8
84	Molecular characterization of the interaction of sialic acid with the periplasmic binding protein from Haemophilus ducreyi. Journal of Biological Chemistry, 2018, 293, 20073-20084.	3.4	8
85	Decreased expression of cell adhesion genes in cancer stem-like cells isolated from primary oral squamous cell carcinomas. Tumor Biology, 2018, 40, 101042831878085.	1.8	8
86	Structure and Function of <i>N</i> -Acetylmannosamine Kinases from Pathogenic Bacteria. ACS Omega, 2020, 5, 30923-30936.	3.5	8
87	Crystal structure ofN-acetylmannosamine kinase fromFusobacterium nucleatum. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 356-362.	0.8	8
88	Crystallisation and crystallographic investigations of cod alcohol dehydrogenase class I and class III enzymes. FEBS Letters, 1994, 350, 122-124.	2.8	7
89	Crystallographic investigation of the dependence of calcium and phosphate ions for notexin. FEBS Letters, 1997, 403, 51-56.	2.8	7
90	Purification, crystallization and preliminary X-ray diffraction studies of the three components of the toluene 2,3-dioxygenase enzyme system. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 669-672.	0.7	7

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91	One Atom Makes All the Difference. Science, 2011, 334, 914-915.	12.6	7
92	Molecular Basis for Nucleotide-binding Specificity: Role of the Exocyclic Amino Group "N2―in Recognition by a Guanylyl-ribonuclease. Journal of Molecular Biology, 2006, 355, 72-84.	4.2	6
93	Structures of Ubiquitin Insertion Mutants Support Site-specific Reflex Response to Insertions Hypothesis. Journal of Molecular Biology, 2006, 359, 390-402.	4.2	6
94	Crystal structures and kinetic analyses of <i>N</i> -acetylmannosamine-6-phosphate 2-epimerases from <i>Fusobacterium nucleatum</i> and <i>Vibrio cholerae</i> . Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 431-440.	0.8	6
95	Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1776-1785.	2.5	5
96	Quaternary variations in the structural assembly ofNâ€acetylglucosamineâ€6â€phosphate deacetylase fromPasteurella multocida. Proteins: Structure, Function and Bioinformatics, 2021, 89, 81-93.	2.6	5
97	Alternative binding modes in abortive NADH-alcohol complexes of horse liver alcohol dehydrogenase. Archives of Biochemistry and Biophysics, 2021, 701, 108825.	3.0	5
98	Crystal structures and kinetics of <i>N</i> -acetylneuraminate lyase from <i>Fusobacterium nucleatum</i> . Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 725-732.	0.8	5
99	A perspective on challenges and opportunities in characterizing oral cancer stem cells. Frontiers in Bioscience - Landmark, 2020, 25, 1011-1021.	3.0	5
100	Crystallographic investigations of alcohol dehydrogenases. , 1994, 71, 269-277.		4
101	Expression and preliminary crystallographic studies of R1E, the large subunit of ribonucleotide reductase fromSalmonella typhimurium. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1081-1083.	2.5	4
102	The New Era of Microcrystallography. Journal of the Indian Institute of Science, 2018, 98, 273-281.	1.9	4
103	The resolution revolution reaches India. Biophysical Reviews, 2019, 11, 513-514.	3.2	4
104	N-acetylmannosamine-6-phosphate 2-epimerase uses a novel substrate-assisted mechanism to catalyze amino sugar epimerization. Journal of Biological Chemistry, 2021, 297, 101113.	3.4	4
105	Dynamics in Alcohol Dehydrogenase Elucidated from Crystallographic Investigations. Advances in Experimental Medicine and Biology, 1999, 463, 275-284.	1.6	4
106	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
107	Comparison of CryoEM and X-ray structures of dimethylformamidase. Progress in Biophysics and Molecular Biology, 2021, 160, 66-78.	2.9	3
108	Crystallizations of Novel Forms of Alcohol Dehydrogenase. Advances in Experimental Medicine and Biology, 1995, 372, 365-371.	1.6	3

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109	Uncompetitive Inhibitors of Alcohol Dehydrogenases. Advances in Experimental Medicine and Biology, 1999, 463, 295-303.	1.6	3
110	Structure of recombinantly expressed cockroach Lili-Mip protein in glycosylated and deglycosylated forms. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130064.	2.4	3
111	First international workshops on Provocative Questions (PQ) in cancer research, October–November 2014, New Delhi, Bengaluru, and Thiruvananthapuram, India. Journal of Cancer Policy, 2015, 6, 33-36.	1.4	2
112	Structure and Function of Betaine Aldehyde Dehydrogenase. Advances in Experimental Medicine and Biology, 1999, 463, 39-44.	1.6	2
113	Phenylalanine stacking enhances the red fluorescence of biliverdin IXα on UV excitation in sandercyanin fluorescent protein. FEBS Letters, 2022, 596, 796-805.	2.8	2
114	Crystal and molecular structures of propanediamine complexed with L- and DL-glutamic acid: effect of chirality on propanediamine. Acta Crystallographica Section B: Structural Science, 1992, 48, 488-492.	1.8	1
115	The crystal structure of nitrobenzene 1,2-dioxygenase. Journal of Inorganic Biochemistry, 2003, 96, 132.	3.5	1
116	Structural and functional characterization of CMP- <i>N</i> -acetylneuraminate synthetase from <i>Vibrio cholerae</i> . Acta Crystallographica Section D: Structural Biology, 2019, 75, 564-577.	2.3	1
117	Crystal and molecular structure of sym-homospermidine monohydrate. Indian Journal of Biochemistry and Biophysics, 1991, 28, 504-12.	0.0	1
118	Missense mutations that cause Van der Woude syndrome and popliteal pterygium syndrome affect the DNA-binding and transcriptional activation functions of IRF6. Human Molecular Genetics, 2009, 18, 1544-1544.	2.9	0
119	Glycomic and glycotranscriptomic profiling of mucin-type O-glycans in planarian Schmidtea mediterranea. Glycobiology, 2021, , .	2.5	0
120	A 2â€Tyrâ€1â€carboxylate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. Angewandte Chemie, 2020, 132, 17109-17114.	2.0	0
121	Crystal structure of cadaverine dihydrochloride monohydrate. Indian Journal of Biochemistry and Biophysics, 1992, 29, 402-6.	0.0	0
122	Modulation of biliverdin dynamics and spectral properties by Sandercyanin. RSC Advances, 2022, 12, 20296-20304.	3.6	0