

# Shanteri Singh

## List of Publications by Year in descending order

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46  
papers

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304743

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302126

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	<b>Molecular Basis for the Substrate Promiscuity of Isopentenyl Phosphate Kinase from <i>Candidatus methanomethylophilus alvus</i></b> . ACS Chemical Biology, 2022, 17, 85-102.	3.4	2
2	Novel Homologs of Isopentenyl Phosphate Kinase Reveal Class-Wide Substrate Flexibility. ChemCatChem, 2021, 13, 3781-3788.	3.7	8
3	Chemoenzymatic synthesis of daptomycin analogs active against daptomycin-resistant strains. Applied Microbiology and Biotechnology, 2020, 104, 7853-7865.	3.6	20
4	Indole C6 Functionalization of Tryprostatin B Using Prenyltransferase CdpNPT. Catalysts, 2020, 10, 1247.	3.5	9
5	Acceptor substrate determines donor specificity of an aromatic prenyltransferase: expanding the biocatalytic potential of NphB. Applied Microbiology and Biotechnology, 2020, 104, 4383-4395.	3.6	14
6	FgaPT2, a biocatalytic tool for alkyl-diversification of indole natural products. MedChemComm, 2019, 10, 1465-1475.	3.4	19
7	Structure and specificity of a permissive bacterial C-prenyltransferase. Nature Chemical Biology, 2017, 13, 366-368.	8.0	50
8	Determination of Alkyl-Donor Promiscuity of Tyrosine-O-Prenyltransferase SirD from <i>Leptosphaeria maculans</i> . ChemBioChem, 2017, 18, 2323-2327.	2.6	18
9	Loop dynamics of thymidine diphosphate-rhamnose 3-O-methyltransferase (CalS11), an enzyme in calicheamicin biosynthesis. Structural Dynamics, 2016, 3, 012004.	2.3	5
10	Functional AdoMet Isosteres Resistant to Classical AdoMet Degradation Pathways. ACS Chemical Biology, 2016, 11, 2484-2491.	3.4	36
11	Structural dynamics of a methionine S-lyase for calicheamicin biosynthesis: Rotation of the conserved tyrosine stacking with pyridoxal phosphate. Structural Dynamics, 2016, 3, 034702.	2.3	4
12	Characterization of Early Enzymes Involved in TDP-Aminodideoxypentose Biosynthesis en Route to Indolocarbazole AT2433. ChemBioChem, 2015, 16, 2141-2146.	2.6	6
13	Structural characterization of AtmS13, a putative sugar aminotransferase involved in indolocarbazole AT2433 aminopentose biosynthesis. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1547-1554.	2.6	10
14	Structural Basis for the Stereochemical Control of Amine Installation in Nucleotide Sugar Aminotransferases. ACS Chemical Biology, 2015, 10, 2048-2056.	3.4	12
15	Structural Characterization of CalS8, a TDP-d-Glucose Dehydrogenase Involved in Calicheamicin Aminodideoxypentose Biosynthesis. Journal of Biological Chemistry, 2015, 290, 26249-26258.	3.4	5
16	The native production of the sesquiterpene isopterocarpolone by <i>Streptomyces</i> sp. RM-14-6. Natural Product Research, 2014, 28, 337-339.	1.8	17
17	A Simple Strategy for Glycosyltransferase-Catalyzed Aminosugar Nucleotide Synthesis. ChemBioChem, 2014, 15, 647-651.	2.6	18
18	Ventricidin C, a new 20-membered macrolide produced by <i>Streptomyces</i> sp. TS-2-2. Journal of Antibiotics, 2014, 67, 223-230.	2.0	33

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19	Characterization of the Calicheamicin Orsellinate C2â€œMethyltransferase CalO6. ChemBioChem, 2014, 15, 1418-1421.	2.6	10
20	Facile Chemoenzymatic Strategies for the Synthesis and Utilization of Adenosylâ€œMethionine Analogues. Angewandte Chemie - International Edition, 2014, 53, 3965-3969.	13.8	120
21	Understanding molecular recognition of promiscuity of thermophilic methionine adenosyltransferase MAT from Sulfolobus solfataricus. FEBS Journal, 2014, 281, 4224-4239.	4.7	36
22	Functionalized Anodic Aluminum Oxide Membraneâ€œElectrode System for Enzyme Immobilization. ACS Nano, 2014, 8, 8104-8112.	14.6	22
23	Structure-Guided Functional Characterization of Eneidyne Self-Sacrifice Resistance Proteins, CalU16 and CalU19. ACS Chemical Biology, 2014, 9, 2347-2358.	3.4	24
24	A General NMR-Based Strategy for the in Situ Characterization of Sugar-Nucleotide-Dependent Biosynthetic Pathways. Organic Letters, 2014, 16, 3220-3223.	4.6	9
25	Structural and Functional Characterization of CalS11, a TDP-Rhamnose 3â€œ-Methyltransferase Involved in Calicheamicin Biosynthesis. ACS Chemical Biology, 2013, 8, 1632-1639.	3.4	12
26	Broadening the scope of glycosyltransferase-catalyzed sugar nucleotide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7648-7653.	7.1	88
27	Crystal structure of SsfS6, the putative C-glycosyltransferase involved in SF2575 biosynthesis. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1277-1282.	2.6	24
28	The structural biology of enzymes involved in natural product glycosylation. Natural Product Reports, 2012, 29, 1201.	10.3	99
29	Glycosyltransferase structural biology and its role in the design of catalysts for glycosylation. Current Opinion in Biotechnology, 2011, 22, 800-808.	6.6	136
30	Structural characterization of CalO1: a putative orsellinic acid methyltransferase in the calicheamicin-biosynthetic pathway. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 197-203.	2.5	16
31	Structural characterization of the mitomycin 7â€œmethyltransferase. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2181-2188.	2.6	26
32	Glycosyloxyamine Neoglycosylation: A Model Study Using Calicheamicin. ChemMedChem, 2011, 6, 774-776.	3.2	11
33	Complete set of glycosyltransferase structures in the calicheamicin biosynthetic pathway reveals the origin of regioselectivity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17649-17654.	7.1	47
34	Structural characterization of CalO2: A putative orsellinic acid P450 oxidase in the calicheamicin biosynthetic pathway. Proteins: Structure, Function and Bioinformatics, 2009, 74, 50-60.	2.6	27
35	The structure of flavinâ€œdependent tryptophan 7â€œhalogenase RebH. Proteins: Structure, Function and Bioinformatics, 2008, 70, 289-293.	2.6	89
36	Biochemical and Structural Insights of the Early Glycosylation Steps in Calicheamicin Biosynthesis. Chemistry and Biology, 2008, 15, 842-853.	6.0	51

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37	Structure and Mechanism of the Rebeccamycin Sugar 4-O-Methyltransferase RebM. <i>Journal of Biological Chemistry</i> , 2008, 283, 22628-22636.	3.4	57
38	Structural Insight into the Self-Sacrifice Mechanism of Eneidyne Resistance. <i>ACS Chemical Biology</i> , 2006, 1, 451-460.	3.4	34
39	Structure of Arabidopsis thaliana At1g77540 Protein, a Minimal Acetyltransferase from the COG2388 Family. <i>Biochemistry</i> , 2006, 45, 14325-14336.	2.5	13
40	Three-dimensional structure of the AAH26994.1 protein from <i>Mus musculus</i> , a putative eukaryotic Urm1. <i>Protein Science</i> , 2005, 14, 2095-2102.	7.6	21
41	Solution structure of a late embryogenesis abundant protein (LEA14) from <i>Arabidopsis thaliana</i> , a cellular stress-related protein. <i>Protein Science</i> , 2005, 14, 2601-2609.	7.6	104
42	Comparison of cell-based and cell-free protocols for producing target proteins from the <i>Arabidopsis thaliana</i> genome for structural studies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 633-643.	2.6	56
43	Auto-induction medium for the production of [U-15N]- and [U-13C, U-15N]-labeled proteins for NMR screening and structure determination. <i>Protein Expression and Purification</i> , 2005, 40, 268-278.	1.3	91
44	Structural Polymorphism and Dynamism in the DNA Segment GATCTCCCCCGGAA: NMR Investigations of Hairpin, Dumbbell, Nicked Duplex, Parallel Strands, and i-Motif. <i>Biochemistry</i> , 1997, 36, 13214-13222.	2.5	21
45	Rapid Transport of Protons across Membranes by Aliphatic Amines and Acids. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11302-11305.	2.9	16
46	Evidence for a novel $\beta^2$ -bend structure with prolines at the corner: $^1\text{H}$ and $^{13}\text{C}$ NMR study of cyclo(Pro-Pro-Gly) $_2$ . <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 944-953.	1.9	3