

Avadhesh Surolia

List of Publications by Year in descending order

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93
papers

2,428
citations

257450

24
h-index

214800

47
g-index

96
all docs

96
docs citations

96
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	Triclosan offers protection against blood stages of malaria by inhibiting enoyl-ACP reductase of <i>Plasmodium falciparum</i> . <i>Nature Medicine</i> , 2001, 7, 167-173.	30.7	404
2	A novel mode of carbohydrate recognition in jacalin, a Moraceae plant lectin with a β^2 -prism fold. <i>Nature Structural Biology</i> , 1996, 3, 596-603.	9.7	224
3	Titration calorimetric studies to elucidate the specificity of the interactions of polymyxin B with lipopolysaccharides and lipid A. <i>Biochemical Journal</i> , 1996, 315, 679-686.	3.7	153
4	Role of glycosylation in nucleating protein folding and stability. <i>Biochemical Journal</i> , 2017, 474, 2333-2347.	3.7	136

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19	Identification of a novel BCL2-specific inhibitor that binds predominantly to the BH1 domain. FEBS Journal, 2016, 283, 3408-3437.	4.7	31
20	Novel BCL2 inhibitor, Disarib induces apoptosis by disruption of BCL2-BAK interaction. Biochemical Pharmacology, 2017, 131, 16-28.	4.4	31
21	Effect of substituent on the thermodynamics of d-glucopyranoside binding to concanavalin A, pea (<i>Pisum sativum</i>) lectin and lentil (<i>Lens culinaris</i>) lectin. Biochemical Journal, 1996, 316, 123-129.	3.7	28
22	Synthesis and Evaluation of Substituted Pyrazoles: Potential Antimalarials Targeting the Enoyl-ACP Reductase of <i>Plasmodium falciparum</i> . Synthetic Communications, 2006, 36, 215-226.	2.1	28
23	Structural Insights into the Acyl Intermediates of the <i>Plasmodium falciparum</i> Fatty Acid Synthesis Pathway. Journal of Biological Chemistry, 2009, 284, 22390-22400.	3.4	26
24	Targeting human telomeric G-quadruplex DNA with curcumin and its synthesized analogues under molecular crowding conditions. RSC Advances, 2016, 6, 7474-7487.	3.6	26
25	Effect of Substituents on the Thermodynamics of d-Galactopyranoside Binding to Winged Bean (<i>Psophocarpus tetragonolobus</i>) Basic Lectin. Biochemistry, 1997, 36, 13428-13434.	2.5	25
26	The Reversible Two-State Unfolding of a Monocot Mannose-Binding Lectin from Garlic Bulbs Reveals the Dominant Role of the Dimeric Interface in Its Stabilization. Biochemistry, 2001, 40, 7291-7300.	2.5	24
27	BT-29 inhibits bacterial cell proliferation by perturbing FtsZ assembly. FEBS Journal, 2015, 282, 4015-4033.	4.7	21
28	C1, a highly potent novel curcumin derivative, binds to tubulin, disrupts microtubule network and induces apoptosis. Bioscience Reports, 2016, 36, .	2.4	20
29	C1 Inhibits Liquid-Liquid Phase Separation and Oligomerization of Tau and Protects Neuroblastoma Cells against Toxic Tau Oligomers. ACS Chemical Neuroscience, 2021, 12, 1989-2002.	3.5	20
30	Unusual structural stability and ligand induced alterations in oligomerization of a galectin. FEBS Letters, 1997, 409, 417-420.	2.8	19
31	Novel multimeric IL-1 receptor antagonist for the treatment of rheumatoid arthritis. Biomaterials, 2015, 42, 121-133.	11.4	19
32	Targeting amino acid metabolism of <i>Mycobacterium tuberculosis</i> for developing inhibitors to curtail its survival. IUBMB Life, 2021, 73, 643-658.	3.4	18
33	Thermodynamics of replacing an α -helical Pro residue in the P40S mutant of <i>Escherichia coli</i> thioredoxin. Protein Science, 1999, 8, 2455-2459.	7.6	17
34	Lysozyme elicits pain during nerve injury by neuronal Toll-like receptor 4 activation and has therapeutic potential in neuropathic pain. Science Translational Medicine, 2019, 11, .	12.4	17
35	Chemical modification studies of gelonin. FEBS Letters, 1985, 192, 113-118.	2.8	16
36	Dynamics simulation of soybean agglutinin (SBA) dimer reveals the impact of glycosylation on its enhanced structural stability. Carbohydrate Research, 2016, 428, 8-17.	2.3	15

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37	Coccinia indica agglutinin, a 17 kDa PP2 like phloem lectin: Affinity purification, primary structure and formation of self-assembled filaments. International Journal of Biological Macromolecules, 2018, 108, 1227-1236.	7.5	14
38	The primary structure of the acidic lectin from winged bean (<i>Psophocarpus tetragonolobus</i>): insights in carbohydrate recognition, adenine binding and quaternary association. FEBS Letters, 2000, 474, 76-82.	2.8	13
39	Immunotoxins to combat AIDS. Nature, 1986, 322, 119-120.	27.8	12
40	Cloning and sequencing of winged bean (<i>Psophocarpus tetragonolobus</i>) basic agglutinin (WBA I): presence of second glycosylation site and its implications in quaternary structure. FEBS Letters, 1996, 389, 289-292.	2.8	12
41	Thermodynamic and kinetic analysis of the <i>Escherichia coli</i> thioredoxin-C α 2 fragment complementation system. Biochemical Journal, 1999, 339, 721-727.	3.7	12
42	A routinely used protein staining dye acts as an inhibitor of wild type and mutant alpha-synuclein aggregation and modulator of neurotoxicity. European Journal of Medicinal Chemistry, 2018, 143, 1174-1184.	5.5	12
43	<i>Mycobacterium tuberculosis</i> : Surviving and Indulging in an Unwelcoming Host. IUBMB Life, 2018, 70, 917-925.	3.4	12
44	Chemical Modification Studies on <i>Ricinus communis</i> (Castor Bean) Agglutinin. FEBS Journal, 1982, 126, 495-501.	0.2	11
45	Hydrolysis of Cyclic Ureas under Microwave Irradiation: Synthesis and Characterization of 7,8-Diaminopelargonic Acid. Synthetic Communications, 2007, 37, 2633-2639.	2.1	11
46	Testosterone supplementation improves insulin responsiveness in HFD fed male T2DM mice and potentiates insulin signaling in the skeletal muscle and C2C12 myocyte cell line. PLoS ONE, 2019, 14, e0224162.	2.5	11
47	Structure, interactions and evolutionary implications of a domain-swapped lectin dimer from <i>Mycobacterium smegmatis</i> . Glycobiology, 2014, 24, 956-965.	2.5	10
48	N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)colcemid, a probe for different classes of colchicine-binding site on tubulin. FEBS Journal, 1993, 212, 387-393.	0.2	9
49	Thermodynamic Analysis of Chitoooligosaccharide Binding to <i>Urtica dioica</i> agglutinin by Isothermal Titration Calorimetry. Bioscience Reports, 1999, 19, 411-419.	2.4	9
50	Protein stabilization through phage display. FEBS Letters, 2000, 476, 296-300.	2.8	9
51	<i>Luffa acutangula</i> agglutinin: Primary structure determination and identification of a tryptophan residue involved in its carbohydrate-binding activity using mass spectrometry. IUBMB Life, 2015, 67, 943-953.	3.4	9
52	Toll/Interleukin-1 Receptor Domain Derived from TcpC (TIR-TcpC) Ameliorates Experimental Autoimmune Arthritis by Down-modulating Th17 Cell Response. Journal of Biological Chemistry, 2016, 291, 12358-12369.	3.4	8
53	Biochemical characterization of argininosuccinate lyase from <i>M. tuberculosis</i> : significance of a C-terminal cysteine in catalysis and thermal stability. IUBMB Life, 2017, 69, 896-907.	3.4	8
54	The barley lectin, horcolin, binds high-mannose glycans in a multivalent fashion, enabling high-affinity, specific inhibition of cellular HIV infection. Journal of Biological Chemistry, 2020, 295, 12111-12129.	3.4	8

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55	In vivo treatment of Heymann's Nephritis using a cytotoxic protein-toxin conjugate. FEBS Letters, 1995, 373, 151-154.	2.8	7
56	Expression, Purification and Characterization of Peanut (<i>Arachis hypogaea</i>) Agglutinin (PNA) from Baculovirus Infected Insect Cells. Bioscience Reports, 1999, 19, 227-234.	2.4	7
57	One Step Synthesis of Novel Antimicrobial 2-Hydroxy Diaryl Ethers Through Domestic Microwave Heating. Synthetic Communications, 2004, 34, 413-420.	2.1	7
58	Reply to: "Triclosan is minimally effective in rodent malaria models". Nature Medicine, 2011, 17, 34-35.	30.7	6
59	Evaluation of benzothioephene carboxamides as analgesics and anti-inflammatory agents. IUBMB Life, 2014, 66, 201-211.	3.4	6
60	Insulin signaling pathway protects neuronal cell lines by Sirt3 mediated IRS2 activation. BioFactors, 2018, 44, 224-236.	5.4	6
61	Functional annotation of putative fadE9 of <i>Mycobacterium tuberculosis</i> as isobutyryl-CoA dehydrogenase involved in valine catabolism. International Journal of Biological Macromolecules, 2019, 122, 45-57.	7.5	6
62	The Structure of the Holo-Acyl Carrier Protein of <i>Leishmania major</i> Displays a Remarkably Different Phosphopantetheinyl Transferase Binding Interface. Biochemistry, 2015, 54, 5632-5645.	2.5	5
63	Negative Cooperativity and High Affinity in Chitoooligosaccharide Binding by a <i>Mycobacterium smegmatis</i> Protein Containing LysM and Lectin Domains. Biochemistry, 2016, 55, 49-61.	2.5	5
64	Metabolite Dysregulation by Pranlukast in <i>Mycobacterium tuberculosis</i> . Molecules, 2022, 27, 1520.	3.8	5
65	Localized agglutinin staining in muscle capillaries from normal and very old atrophic human muscle using winged bean (<i>Psophocarpus tetragonolobus</i>) lectin. Histochemistry and Cell Biology, 1997, 107, 31-37.	1.7	4
66	Topological mimicry and epitope duplication in the guanylyl cyclase C receptor. Protein Science, 1998, 7, 2175-2183.	7.6	4
67	Expression of Winged Bean Basic Agglutinin in <i>Spodoptera frugiperda</i> Insect Cell Expression System. Bioscience Reports, 2001, 21, 361-367.	2.4	4
68	Site specific N-glycan profiling of NeuAc(1-2-6)-Gal/GalNAc-binding bark <i>Sambucus nigra</i> agglutinin using LC-MSn revealed differential glycosylation. Glycoconjugate Journal, 2016, 33, 907-915.	2.7	4
69	Structure, interactions and action of <i>Mycobacterium tuberculosis</i> 3-hydroxyisobutyric acid dehydrogenase. Biochemical Journal, 2018, 475, 2457-2471.	3.7	4
70	Effect of linkage on the location of reducing and nonreducing sugars bound to jacalin. IUBMB Life, 2016, 68, 971-979.	3.4	3
71	Comprehensive analysis of 1-3-linked sialic acid specific <i>Maackia amurensis</i> leukagglutinin reveals differentially occupied N-glycans and C-terminal processing. International Journal of Biological Macromolecules, 2017, 94, 114-121.	7.5	3
72	Ligand binding and retention in snake gourd seed lectin (SGSL). A crystallographic, thermodynamic and molecular dynamics study. Glycobiology, 2018, 28, 968-977.	2.5	3

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73	Development and characterization of supramolecular calcitonin assembly and assessment of its interactions with the bone remodelling process. <i>Bone</i> , 2019, 122, 123-135.	2.9	3
74	BubR1 depletion delays apoptosis in the microtubule-depolymerized cells. <i>Biochemical Pharmacology</i> , 2019, 162, 177-190.	4.4	3
75	Structural and related studies on Mevo lectin from <i>Methanococcus voltae</i> A3: the first thorough characterization of an archeal lectin and its interactions. <i>Glycobiology</i> , 2021, 31, 315-328.	2.5	3
76	Mevo lectin specificity toward high-mannose structures with terminal α -Man(1,2)- α -Man residues and its implication to inhibition of the entry of <i>Mycobacterium tuberculosis</i> into macrophages. <i>Glycobiology</i> , 2021, 31, 1046-1059.	2.5	3
77	Spike Protein and the Various Cell-Surface Carbohydrates: An Interaction Study. <i>ACS Chemical Biology</i> , 2022, 17, 103-117.	3.4	3
78	Rifampicin-Mediated Metabolic Changes in <i>Mycobacterium tuberculosis</i> . <i>Metabolites</i> , 2022, 12, 493.	2.9	3
79	Multivariate PLS Modeling of Apicomplexan FabD-Ligand Interaction Space for Mapping Target-Specific Chemical Space and Pharmacophore Fingerprints. <i>PLoS ONE</i> , 2015, 10, e0141674.	2.5	2
80	N-Glycosylation analysis of yeast Carboxypeptidase Y reveals the ultimate removal of phosphate from glycans at Asn 368. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 582-585.	7.5	2
81	Identification of Banana Lectin Isoforms and Differential Acetylation Through Mass Spectrometry Approaches. <i>Protein Journal</i> , 2018, 37, 38-46.	1.6	2
82	Structural studies on <i>M. tuberculosis</i> argininosuccinate lyase and its liganded complex: Insights into catalytic mechanism. <i>IUBMB Life</i> , 2019, 71, 643-652.	3.4	2
83	Mechanistic insight into the effect of BTâ€benzoâ€29 on the Zâ€ring in <i>Bacillus subtilis</i> . <i>IUBMB Life</i> , 2020, 72, 978-990.	3.4	2
84	Targeted nanoformulation of C1 inhibits the growth of KB spheroids and cancer stem cell-enriched MCF-7 mammospheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 202, 111702.	5.0	2
85	Sugars as Affinity Ligands. , 2002, , 115-129.		2
86	Structure and Carbohydrate Recognition by the Nonmitogenic Lectin Horcolin. <i>Biochemistry</i> , 2022, 61, 464-478.	2.5	2
87	Benzothiophenes as Potent Analgesics Against Neuropathic Pain. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 245-254.	1.6	1
88	Tuberculosis: Today's researchesâ€tomorrow's therapies. <i>IUBMB Life</i> , 2018, 70, 814-817.	3.4	1
89	Corrigendum to: â€Structural basis for the specificity of basic winged bean lectin for the Tn-antigen: A crystallographic, thermodynamic and modelling studyâ€•[<i>FEBS Lett.</i> 579 (2005) 6775-6780]. <i>FEBS Letters</i> , 2006, 580, 2808-2808.	2.8	0
90	Effect of substrate binding loop mutations on the structure, kinetics, and inhibition of enoyl acyl carrier protein reductase from <i>plasmodium falciparum</i> . <i>IUBMB Life</i> , 2011, 63, spcone-spcone.	3.4	0

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91	Role of a cysteine residue in substrate entry and catalysis in MthIBADH : Analysis by chemical modifications and site-directed mutagenesis. IUBMB Life, 2021, 73, 855-865.	3.4	0
92	A Report on the XVII International Symposium on Glycoconjugate. Trends in Glycoscience and Glycotechnology, 2004, 16, 421-425.	0.1	0
93	Lysozyme overexpression during nerve injury excites A δ & C fibres in a fibre specific manner to incite neuropathic pain. FASEB Journal, 2018, 32, 673.15.	0.5	0