

Musti J Swamy

List of Publications by Year in descending order

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158
papers

3,262
citations

159585

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233421

45
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159
all docs

159
docs citations

159
times ranked

2632
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond carbohydrate binding: new directions in plant lectin research. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 973.	2.8	136
2	Structure of Chitosan Determines Its Interactions with Mucin. <i>Biomacromolecules</i> , 2014, 15, 3550-3558.	5.4	134
3	Coexisting Domains in the Plasma Membranes of Live Cells Characterized by Spin-Label ESR Spectroscopy. <i>Biophysical Journal</i> , 2006, 90, 4452-4465.	0.5	128
4	Biophysical Analysis of the Molecular Interactions between Polysaccharides and Mucin. <i>Biomacromolecules</i> , 2015, 16, 924-935.	5.4	85
5	Further characterization of the saccharide specificity of peanut (<i>Arachis hypogaea</i>) agglutinin. <i>Carbohydrate Research</i> , 1991, 213, 59-67.	2.3	80
6	Controlled Synthesis of α -Glycopolypeptide Polymers and Their Molecular Recognition by Lectins. <i>Biomacromolecules</i> , 2012, 13, 1287-1295.	5.4	67
7	Membrane Insertion and Lipid-Protein Interactions of Bovine Seminal Plasma Protein PDC-109 Investigated by Spin-Label Electron Spin Resonance Spectroscopy. <i>Biophysical Journal</i> , 2001, 81, 2215-2225.	0.5	64
8	The Major Protein of Bovine Seminal Plasma, PDC-109, Is a Molecular Chaperone. <i>Biochemistry</i> , 2010, 49, 3908-3918.	2.5	53
9	Binding of Porphyrins by the Tumor-Specific Lectin, Jacalin [Jack Fruit (<i>Artocarpus integrifolia</i>) Agglutinin]. <i>Bioscience Reports</i> , 2000, 20, 265-276.	2.4	48
10	On the role of alginate structure in complexing with lysozyme and Application for enzyme delivery. <i>Food Hydrocolloids</i> , 2016, 53, 239-248.	10.7	48
11	Purification, physicochemical characterization, saccharide specificity, and chemical modification of a Gal/GalNAc specific lectin from the seeds of <i>Trichosanthes dioica</i> . <i>Archives of Biochemistry and Biophysics</i> , 2004, 432, 212-221.	3.0	46
12	Isothermal Titration Calorimetric Studies on the Interaction of the Major Bovine Seminal Plasma Protein, PDC-109 with Phospholipid Membranes. <i>PLoS ONE</i> , 2011, 6, e25993.	2.5	45
13	Differential scanning calorimetric studies on the thermotropic phase transitions of dry and hydrated forms of N-acylethanolamines of even chainlengths. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1329, 302-310.	2.6	42
14	Mechanism of Membrane Binding by the Bovine Seminal Plasma Protein, PDC-109: A Surface Plasmon Resonance Study. <i>Biophysical Journal</i> , 2003, 84, 3037-3044.	0.5	42
15	Fluorescence and absorption spectroscopic studies on the interaction of porphyrins with snake gourd (<i>Trichosanthes anguina</i>) seed lectin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 55, 49-55.	3.8	39
16	Functional Equality in the Absence of Structural Similarity. <i>Journal of Biological Chemistry</i> , 2001, 276, 39277-39281.	3.4	38
17	Importance of eye lens α -crystallin heteropolymer with 3:1 α to β ratio: Stability, aggregation, and modifications. <i>IUBMB Life</i> , 2010, 62, 693-702.	3.4	38
18	Interaction of membrane-spanning proteins with peripheral and lipid-anchored membrane proteins: perspectives from protein-lipid interactions (Review). <i>Molecular Membrane Biology</i> , 2002, 19, 247-255.	2.0	37

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19	Derivatized lipids in membranes. Physico-chemical aspects of N-biotinyl phosphatidylethanolamines, N-acyl phosphatidylethanolamines and N-acyl ethanolamines. <i>Chemistry and Physics of Lipids</i> , 2000, 105, 43-69.	3.2	36
20	Fluorescence quenching, time-resolved fluorescence and chemical modification studies on the tryptophan residues of snake gourd (<i>Trichosanthes anguina</i>) seed lectin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 50, 108-118.	3.8	35
21	Energetics of carbohydrate binding to <i>Momordica charantia</i> (bitter gourd) lectin: An isothermal titration calorimetric study. <i>Archives of Biochemistry and Biophysics</i> , 2005, 437, 115-125.	3.0	35
22	Primary structure of a Thomsen-Friedenreich-antigen-specific lectin, jacalin [<i>Artocarpus integrifolia</i>] (jack fruit) agglutinin]. Evidence for the presence of an internal repeat. <i>Biochemical Journal</i> , 1992, 284, 95-101.	3.7	33
23	Molecular packing and intermolecular interactions in N-acylethanolamines: crystal structure of N-myristoylethanolamine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999, 1418, 261-267.	2.6	33
24	Fourier-transform infrared spectroscopic studies on avidin secondary structure and complexation with biotin and biotin-lipid assemblies. <i>Biophysical Journal</i> , 1996, 71, 840-847.	0.5	32
25	Glycopolymer-Grafted Nanoparticles: Synthesis Using RAFT Polymerization and Binding Study with Lectin. <i>Macromolecules</i> , 2017, 50, 7309-7320.	4.8	32
26	Chemical modification studies on <i>Abrus agglutinin</i> . Involvement of tryptophan residues in sugar binding. <i>Biochemical Journal</i> , 1984, 217, 773-781.	3.7	31
27	Purification in high yield and characterisation of a new galactose-specific lectin from the seeds of <i>Trichosanthes cucumerina</i> . <i>Phytochemistry</i> , 1999, 50, 363-371.	2.9	31
28	Effect of cholesterol on the interaction of seminal plasma protein, PDC-109 with phosphatidylcholine membranes. <i>FEBS Letters</i> , 2002, 528, 230-234.	2.8	31
29	Thermodynamic analysis of porphyrin binding to <i>Momordica charantia</i> (bitter gourd) lectin. <i>FEBS Journal</i> , 2004, 271, 3274-3282.	0.2	31
30	Fluorescence quenching and time-resolved fluorescence studies on <i>Trichosanthes dioica</i> seed lectin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 80, 93-100.	3.8	31
31	Crystal Structures of the PNA~Porphyrin Complex in the Presence and Absence of Lactose: Mapping the Conformational Changes on Lactose Binding, Interacting Surfaces, and Supramolecular Aggregations. <i>Biochemistry</i> , 2005, 44, 5588-5596.	2.5	30
32	Spin-Label Electron Spin Resonance Studies on the Mode of Anchoring and Vertical Location of the N-Acyl Chain in N-Acylphosphatidylethanolamines. <i>Biochemistry</i> , 2000, 39, 12476-12484.	2.5	28
33	Thermodynamic and kinetic analysis of porphyrin binding to <i>Trichosanthes cucumerina</i> seed lectin. <i>FEBS Journal</i> , 2001, 268, 5541-5549.	0.2	28
34	Interaction of the major protein from bovine seminal plasma, PDC-109 with phospholipid membranes and soluble ligands investigated by fluorescence approaches. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 891-899.	2.3	28
35	Structure and Thermotropic Phase Behavior of a Homologous Series of N-Acylglycines: Neuroactive and Antinociceptive Constituents of Biomembranes. <i>Crystal Growth and Design</i> , 2014, 14, 4944-4954.	3.0	28
36	Thermodynamics of interdigitated phases of phosphatidylcholine in glycerol. <i>Biophysical Journal</i> , 1995, 69, 1402-1408.	0.5	27

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37	Differential scanning calorimetric studies on the thermotropic phase transitions of N-acylethanolamines of odd chainlengths. <i>Chemistry and Physics of Lipids</i> , 1998, 94, 43-51.	3.2	27
38	Tryptophan environment, secondary structure and thermal unfolding of the galactose-specific seed lectin from <i>Dolichos lablab</i> : Fluorescence and circular dichroism spectroscopic studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1001-1008.	2.4	27
39	Molecular packing and intermolecular interactions in two structural polymorphs of N-palmitoylethanolamine, a type 2 cannabinoid receptor agonist. <i>Journal of Lipid Research</i> , 2006, 47, 1424-1433.	4.2	27
40	Differential scanning calorimetric and spectroscopic studies on the unfolding of <i>Momordica charantia</i> lectin. Similar modes of thermal and chemical denaturation. <i>Biochimie</i> , 2010, 92, 58-64.	2.6	27
41	Thermodynamic analysis of saccharide binding to snake gourd (<i>Trichosanthes anguina</i>) seed lectin. <i>FEBS Journal</i> , 2001, 268, 111-119.	0.2	26
42	Thermodynamics of phosphorylcholine and lysophosphatidylcholine binding to the major protein of bovine seminal plasma, PDC-109. <i>FEBS Letters</i> , 2005, 579, 2933-2938.	2.8	26
43	Correlation of Membrane Binding and Hydrophobicity to the Chaperone-Like Activity of PDC-109, the Major Protein of Bovine Seminal Plasma. <i>PLoS ONE</i> , 2011, 6, e17330.	2.5	26
44	Physicochemical and saccharide-binding studies on the galactose-specific seed lectin from <i>Trichosanthes cucumerina</i> . <i>Archives of Biochemistry and Biophysics</i> , 2003, 413, 131-138.	3.0	25
45	Synthesis, calorimetric studies, and crystal structures of N, O-diacylethanolamines with matched chains. <i>Journal of Lipid Research</i> , 2010, 51, 42-52.	4.2	25
46	Self-Assembly, Supramolecular Organization, and Phase Behavior of α -Alanine Alkyl Esters ($n = 9-18$) and Characterization of Equimolar α -Alanine Lauryl Ester/Lauryl Sulfate Catanionic Complex. <i>Langmuir</i> , 2015, 31, 9546-9556.	3.5	25
47	Structure, phase behaviour and membrane interactions of N-acylethanolamines and N-acylphosphatidylethanolamines. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 266-279.	3.2	24
48	Differential scanning calorimetry of chain-melting phase transitions of N-acylphosphatidylethanolamines. <i>Biophysical Journal</i> , 1997, 73, 2556-2564.	0.5	23
49	N-Myristoylated Phosphatidylethanolamine: Interfacial Behavior and Interaction with Cholesterol. <i>Langmuir</i> , 2002, 18, 231-238.	3.5	23
50	Steady-state and time-resolved fluorescence studies on <i>Trichosanthes cucumerina</i> seed lectin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2003, 69, 193-201.	3.8	23
51	Isothermal Titration Calorimetric and Computational Studies on the Binding of Chitoooligosaccharides to Pumpkin (<i>Cucurbita maxima</i>) Phloem Exudate Lectin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4110-4117.	2.6	23
52	Synthesis, physicochemical characterization and membrane interactions of a homologous series of N-acylserotonins: Bioactive, endogenous conjugates of serotonin with fatty acids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 95-103.	2.6	23
53	Differential scanning calorimetry of thermotropic phase transitions in vitaminylated lipids: aqueous dispersions of N-biotinyl phosphatidylethanolamines. <i>Biophysical Journal</i> , 1994, 66, 31-39.	0.5	22
54	Spin-Label Studies on the Anchoring and Lipid-Protein Interactions of Avidin with N-Biotinylphosphatidylethanolamines in Lipid Bilayer Membranes. <i>Biochemistry</i> , 1997, 36, 7403-7407.	2.5	22

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55	Porphyrim binding to jacalin is facilitated by the inherent plasticity of the carbohydrate-binding site: novel mode of lectinâ€“ligand interaction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 281-288.	2.5	22
56	³¹ P NMR and AFM studies on the destabilization of cell and model membranes by the major bovine seminal plasma protein, PDCâ€“109. <i>IUBMB Life</i> , 2010, 62, 841-851.	3.4	22
57	Structure and Thermotropic Phase Behavior of a Homologous Series of Bioactive <i>N</i> -Acyl-dopamines. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8747-8757.	2.6	22
58	Thermodynamic and kinetic studies on saccharide binding to soya-bean agglutinin. <i>Biochemical Journal</i> , 1986, 234, 515-522.	3.7	21
59	Inverse relationship between chitobiase and transglycosylation activities of chitinase-D from <i>Serratia proteamaculans</i> revealed by mutational and biophysical analyses. <i>Scientific Reports</i> , 2015, 5, 15657.	3.3	21
60	HSP-1/2, a major protein of equine seminal plasma, exhibits chaperone-like activity. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 18-23.	2.1	20
61	New Class of Chitosanase from <i>Bacillus amyloliquefaciens</i> for the Generation of Chitooligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 78-87.	5.2	20
62	<i>N</i> -Myristoylethanolamine-cholesterol (1:1) complex: first evidence from differential scanning calorimetry, fast-atom-bombardment mass spectrometry and computational modelling. <i>FEBS Letters</i> , 2002, 531, 343-347.	2.8	19
63	Rapid affinity-purification and physicochemical characterization of pumpkin (<i>Cucurbita maxima</i>) phloem exudate lectin. <i>Bioscience Reports</i> , 2010, 30, 341-349.	2.4	19
64	The Ssl2245-Sll1130 Toxin-Antitoxin System Mediates Heat-induced Programmed Cell Death in <i>Synechocystis</i> sp. PCC6803. <i>Journal of Biological Chemistry</i> , 2017, 292, 4222-4234.	3.4	19
65	Spin-Label Electron Spin Resonance Studies on the Dynamics of the Different Phases of <i>N</i> -Biotinylphosphatidylethanolamines. <i>Biochemistry</i> , 1994, 33, 11656-11663.	2.5	18
66	Tryptophan exposure and accessibility in the chitooligosaccharide-specific phloem exudate lectin from pumpkin (<i>Cucurbita maxima</i>). A fluorescence study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009, 97, 40-47.	3.8	18
67	Self-assembly, supramolecular organization, and phase transitions of a homologous series of <i>N</i> -acyl-L-alanines ($n=8\text{--}20$). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 471, 108-116.	4.7	18
68	HSP-1/2, a major horse seminal plasma protein, acts as a chaperone against oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 1058-1063.	2.1	18
69	Effect of Hofmeister Series Anions on the Thermotropic Phase Behavior of Bioactive <i>O</i> -Acylcholines. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9900-9909.	2.6	17
70	Amino Groups of Chitosan Are Crucial for Binding to a Family 32 Carbohydrate Binding Module of a Chitosanase from <i>Paenibacillus elgii</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 18977-18990.	3.4	17
71	Spermine and spermidine act as chemical chaperones and enhance chaperone-like and membranolytic activities of major bovine seminal plasma protein, PDC-109. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 1418-1424.	2.1	17
72	Purification and physicochemical characterization of two galactoseâ€“specific isolectins from the seeds of <i>Trichosanthes cordata</i> . <i>IUBMB Life</i> , 2009, 61, 457-469.	3.4	16

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73	Biophysical investigations on the aggregation and thermal unfolding of harpinPss and identification of leucine-zipper-like motifs in harpins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1684-1692.	2.3	16
74	Polyproline foldâ€™In imparting kinetic stability to an alkaline serine endopeptidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 708-716.	2.3	16
75	The sequence and structure of snake gourd (<i>Trichosanthes anguina</i>) seed lectin, a three-chain nontoxic homologue of type II RIPs. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1493-1503.	2.5	16
76	Purification, physico-chemical characterization and thermodynamics of chito oligosaccharide binding to cucumber (<i>Cucumis sativus</i>) phloem lectin. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 910-919.	7.5	16
77	A Base-Triggerable Catanionic Mixed Lipid System: Isothermal Titration Calorimetric and Single-Crystal X-ray Diffraction Studies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13710-13717.	2.6	15
78	Nonclassical Oddâ€™even Alternation in Mixed-Chain Diacyl ethanolamines: Implications of Polymorphism. <i>Crystal Growth and Design</i> , 2012, 12, 1132-1140.	3.0	15
79	<i>Coccinia indica</i> agglutinin, a 17 kDa PP2 like phloem lectin: Affinity purification, primary structure and formation of self-assembled filaments. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 1227-1236.	7.5	14
80	Phase Polymorphism, Molecular Interactions, and Miscibility of Binary Mixtures of Dimyristoyl-N-biotinylphosphatidylethanolamine with Dimyristoylphosphatidylcholine. <i>Biochemistry</i> , 1995, 34, 7295-7302.	2.5	13
81	Spectroscopic and differential scanning calorimetric studies on the unfolding of <i>Trichosanthes dioica</i> seed lectin. Similar modes of thermal and chemical denaturation. <i>Glycoconjugate Journal</i> , 2009, 26, 1075-1084.	2.7	13
82	Fluorescence studies on the interaction of choline-binding domain B of the major bovine seminal plasma protein, PDC-109 with phospholipid membranes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1725-1733.	2.3	13
83	Structure and phase behavior of O-stearoylethanolamine: A combined calorimetric, spectroscopic and X-ray diffraction study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 872-881.	2.6	13
84	A pH Switch Regulates the Inverse Relationship between Membranolytic and Chaperone-like Activities of HSP-1/2, a Major Protein of Horse Seminal Plasma. <i>Biochemistry</i> , 2016, 55, 3650-3657.	2.5	13
85	Glycosylation differentially modulates membranolytic and chaperone-like activities of PDC-109, the major protein of bovine seminal plasma. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 28-34.	2.1	13
86	Spin-label electron paramagnetic resonance studies on the interaction of avidin with dimyristoyl-phosphatidylglycerol membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1513, 122-130.	2.6	12
87	Miscibility and phase behaviour of binary mixtures of N-palmitoylethanolamine and dipalmitoylphosphatidylcholine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1616, 174-183.	2.6	12
88	Thermodynamic studies on the interaction of water-soluble porphyrins with the glucose/mannose-specific lectin from garden pea (<i>Pisum sativum</i>). <i>IUBMB Life</i> , 2006, 58, 720-730.	3.4	12
89	Miscibility and Phase Behavior of N-Acylethanolamine/Diacylphosphatidylethanolamine Binary Mixtures of Matched Acyl Chainlengths (n= 14, 16). <i>Biophysical Journal</i> , 2007, 92, 3968-3977.	0.5	12
90	Biophysical Investigations on the Interaction of the Major Bovine Seminal Plasma Protein, PDC-109, with Heparin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12954-12962.	2.6	12

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91	A new chitoooligosaccharide specific lectin from snake gourd (<i>Trichosanthes anguina</i>) phloem exudate. Purification, physico-chemical characterization and thermodynamics of saccharide binding. <i>Biochimie</i> , 2011, 93, 1676-1684.	2.6	12
92	Physico-chemical characteristics and primary structure of an affinity-purified α -D-galactose-specific, jacalin-related lectin from the latex of mulberry (<i>Morus indica</i>). <i>Archives of Biochemistry and Biophysics</i> , 2016, 609, 59-68.	3.0	12
93	Kinetic and biophysical characterization of a lysosomal α -L-fucosidase from the fresh water mussel, <i>Lamellidens corrianus</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 104, 432-441.	7.5	12
94	Physicochemical characterization of lauryl glycinate-dodecyl sulfate equimolar complex: A base-triggerable cationic liposomal system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 139-146.	4.7	12
95	Purification, biochemical/biophysical characterization and chitoooligosaccharide binding to BGL24, a new PP2-type phloem exudate lectin from bottle gourd (<i>Lagenaria siceraria</i>). <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3656-3666.	7.5	12
96	Disulphide bond reduction and S-carboxamidomethylation of PSP94 affects its conformation but not the ability to bind immunoglobulin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 723-731.	2.3	11
97	Mutational analysis of the pumpkin (<i>Cucurbita maxima</i>) phloem exudate lectin, PP2 reveals Ser-104 is crucial for carbohydrate binding. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 622-627.	2.1	11
98	Fluorescence investigations on choline phospholipid binding and chemical unfolding of HSP-1/2, a major protein of horse seminal plasma. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 89-98.	3.8	11
99	Structure, supramolecular organization and phase behavior of N-acyl- β -alanines: Structural homologues of mammalian brain constituents N-acylglycine and N-acyl-GABA. <i>Chemistry and Physics of Lipids</i> , 2016, 201, 1-10.	3.2	11
100	Structure of vitaminylated lipids in aqueous dispersion: X-ray diffraction and phosphorus-31 NMR studies of N-biotinylphosphatidylethanolamines. <i>Biochemistry</i> , 1993, 32, 9960-9967.	2.5	10
101	Interaction of N-myristoyldimyristoylphosphatidylethanolamine with dimyristoylphosphatidylcholine investigated by differential scanning calorimetry: binary phase diagram. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1512, 22-26.	2.6	10
102	Probing the Thermodynamics of Protein-Lipid Interactions by Isothermal Titration Calorimetry. <i>Methods in Molecular Biology</i> , 2013, 974, 37-53.	0.9	10
103	Fluorescence and circular dichroism studies on the accessibility of tryptophan residues and unfolding of a jacalin-related α -D-galactose-specific lectin from mulberry (<i>Morus indica</i>). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 108-117.	3.8	10
104	A homologous series of apoptosis-inducing N-acylserinolins: Thermotropic phase behavior, interaction with cholesterol and characterization of cationic N-myristoylserinol-cholesterol-CTAB niosomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 504-513.	2.6	10
105	Studies on tryptophan residues of <i>Abrus</i> agglutinin. Stopped-flow kinetics of modification and fluorescence-quenching studies. <i>Biochemical Journal</i> , 1987, 243, 79-86.	3.7	9
106	Studies on the tryptophan residues of soybean agglutinin. Involvement in saccharide binding. <i>Bioscience Reports</i> , 1989, 9, 189-198.	2.4	9
107	Interaction of avidin with spin-labelled N-biotinyl phosphatidylethanolamine in a lipid membrane. <i>FEBS Letters</i> , 1993, 324, 56-58.	2.8	9
108	Differential scanning calorimetric and powder X-ray diffraction studies on a homologous series of N-acyl-L-alanine esters with matched chains (n = 9-18). <i>Journal of Chemical Sciences</i> , 2015, 127, 1627-1635.	1.5	9

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109	Purification, chitoooligosaccharide binding properties and thermal stability of CIA24, a new PP2-like phloem exudate lectin from ivy gourd (<i>Coccinia indica</i>). <i>International Journal of Biological Macromolecules</i> , 2018, 110, 588-597.	7.5	9
110	Differential scanning calorimetric and spectroscopic studies on the thermal and chemical unfolding of cucumber (<i>Cucumis sativus</i>) phloem exudate lectin. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 95-100.	7.5	9
111	Interactions between Lipid-Anchored and Transmembrane Proteins. Spin-Label ESR Studies on Avidin~Biotinyl Phosphatidylethanolamine in Membrane Recombinants with Myelin Proteolipid Proteins. <i>Biochemistry</i> , 1999, 38, 16333-16339.	2.5	8
112	Specific Surface Association of Avidin with N-Biotinylphosphatidylethanolamine Membrane Assemblies: Effect on Lipid Phase Behavior and Acyl-Chain Dynamics. <i>Biochemistry</i> , 2001, 40, 14869-14877.	2.5	8
113	Polymorphism in α -shaped lipids: structure of N-, O-diacylethanolamines with mixed acyl chains. <i>Chemistry and Physics of Lipids</i> , 2009, 162, 25-33.	3.2	8
114	Fluorescence studies on the interaction of hydrophobic ligands with <i>Momordica charantia</i> (bitter) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	8
115	Synthesis, characterization and thermotropic phase behavior of a homologous series of N-acyl-L-alaninols and interaction of N-myristoyl L-alaninol with dimyristoylphosphatidylcholine. <i>Chemistry and Physics of Lipids</i> , 2016, 196, 5-12.	3.2	8
116	Differential modulation of the chaperone-like activity of HSP-1/2, a major protein of horse seminal plasma by anionic and cationic surfactants. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 524-531.	7.5	8
117	Factors Influencing the Chaperone-Like Activity of Major Proteins of Mammalian Seminal Plasma, Equine HSP-1/2 and Bovine PDC-109: Effect of Membrane Binding, pH and Ionic Strength. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 53-68.	1.6	8
118	Purification in high yield and characterisation of the galactose-specific lectin from the seeds of snake gourd (<i>Trichosanthes anguina</i>). <i>IUBMB Life</i> , 1996, 39, 243-252.	3.4	7
119	Crystallization and preliminary X-ray studies of snake gourd lectin: homology with type II ribosome-inactivating proteins. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 912-914.	2.5	7
120	Studies on the Critical Micellar Concentration and Phase Transitions of Stearoylcarnitine. <i>Bioscience Reports</i> , 2006, 26, 387-398.	2.4	7
121	Interaction of N-myristoylethanolamine with cholesterol investigated in a Langmuir film at the air-water interface. <i>Biophysical Chemistry</i> , 2009, 139, 63-69.	2.8	7
122	Organization and Dynamics of Hippocampal Membranes in a Depth-Dependent Manner: An Electron Spin Resonance Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2999-3006.	2.6	7
123	Molecular structure, supramolecular organization and thermotropic phase behavior of N-acylglycine alkyl esters with matched acyl and alkyl chains. <i>Chemistry and Physics of Lipids</i> , 2017, 208, 43-51.	3.2	7
124	Chitoooligosaccharide binding to CIA17 (<i>Coccinia indica</i> agglutinin). Thermodynamic characterization and formation of higher order complexes. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 774-782.	7.5	7
125	Oligomerization, Conformational Stability and Thermal Unfolding of Harpin, HrpZPss and Its Hypersensitive Response-Inducing C-Terminal Fragment, C-214-HrpZPss. <i>PLoS ONE</i> , 2014, 9, e109871.	2.5	7
126	Prediction and comparison of the secondary structure of legume lectins. <i>Journal of Biosciences</i> , 1985, 9, 203-212.	1.1	6

#	ARTICLE	IF	CITATIONS
127	Galactose-Specific Seed Lectins from Cucurbitaceae. <i>Current Protein and Peptide Science</i> , 2015, 16, 17-30.	1.4	6
128	Effect of Sorbitol on Alpha-Crystallin Structure and Function. <i>Biochemistry (Moscow)</i> , 2022, 87, 131-140.	1.5	6
129	On the metabolism of GM3 ganglioside in cultured human foreskin fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 1989, 162, 1188-1193.	2.1	5
130	Identification of histidine residues in the sugar binding site of snake gourd (<i>Trichosanthes anguina</i>) seed lectin. <i>IUBMB Life</i> , 1998, 44, 107-116.	3.4	5
131	Top-down mass spectrometry reveals new sequence variants of the major bovine seminal plasma protein PDC109. <i>Journal of Mass Spectrometry</i> , 2012, 47, 853-859.	1.6	5
132	Conserved core tryptophans of Fnll domains are crucial for the membranolytic and chaperone-like activities of bovine seminal plasma protein PDC109. <i>FEBS Letters</i> , 2020, 594, 509-518.	2.8	5
133	DSC and FCS Studies Reveal the Mechanism of Thermal and Chemical Unfolding of CIA17, a Polydisperse Oligomeric Protein from <i>Coccinia Indica</i> . <i>Journal of Physical Chemistry B</i> , 2021, 125, 7117-7127.	2.6	5
134	Fluorescence quenching and time-resolved fluorescence studies on <i>Momordica Charantia</i> (Bitter) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	3.4	4
135	SYBR Gold Fluorescence Quenching is a Sensitive Probe of Chitosan-microRNA Interactions. <i>Journal of Fluorescence</i> , 2016, 26, 37-42.	2.5	4
136	Modulation of chaperone-like and membranolytic activities of major horse seminal plasma protein HSP-1/2 by l-carnitine. <i>Journal of Biosciences</i> , 2017, 42, 469-479.	1.1	4
137	Structure, supramolecular organization and thermotropic phase behavior of N-acyl tris homologs (n=9-18): Structural analogs of apoptosis inducing ceramides. <i>Chemistry and Physics of Lipids</i> , 2018, 3.2 217, 1-11.		4
138	Thermodynamic Analysis of Protein-Lipid Interactions by Isothermal Titration Calorimetry. <i>Methods in Molecular Biology</i> , 2019, 2003, 71-89.	0.9	4
139	Purification and biochemical/biophysical characterization of two hexosaminidases from the fresh water mussel, <i>Lamellidens corrianus</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 149, 754-766.	7.5	4
140	Purification, molecular characterization and ligand binding properties of the major donkey seminal plasma protein DSP-1. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 213-222.	7.5	4
141	Cucurbitaceae phloem exudate lectins: Purification, molecular characterization and carbohydrate binding characteristics. <i>Phytochemistry</i> , 2022, 201, 113251.	2.9	4
142	Saccharide binding to three Gal/GalNAc specific lectins: Fluorescence, spectroscopic and stopped-flow kinetic studies. <i>Glycoconjugate Journal</i> , 1988, 5, 75-84.	2.7	3
143	Thermally stable harpin, HrpZPss is sensitive to chemical denaturants: Probing tryptophan environment, chemical and thermal unfolding by fluorescence spectroscopy. <i>Biochimie</i> , 2013, 95, 2437-2444.	2.6	3
144	Structure, thermotropic phase behavior and membrane interaction of N-acyl- β -alaninols. Homologs of stress-combating N-acylethanolamines. <i>Chemistry and Physics of Lipids</i> , 2021, 236, 105056.	3.2	3

#	ARTICLE	IF	CITATIONS
145	Biophysical Characterization of the Interaction of O-acylcholines with the Major Bovine Seminal Plasma Protein, PDC-109. <i>Advances in Experimental Medicine and Biology</i> , 2015, 842, 279-292.	1.6	3
146	Equimolar mixtures of lysophosphatidylcholine and O-stearoylethanolamine form bilayers. <i>Soft Matter</i> , 2010, 6, 3459.	2.7	2
147	Packing polymorphism, odd-even alternation and thermotropic phase transitions in N,O-diacylethanolamines with varying N-acyl chains. A combined experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25264-25277.	2.8	2
148	Deciphering the thermotolerance of chitinase O from <i>Chitiniphilus shinanonensis</i> by in vitro and in silico studies. <i>International Journal of Biological Macromolecules</i> , 2022, 210, 44-52.	7.5	2
149	Low-pH Molten Globule-Like Form of CIA17, a Chito oligosaccharide-Specific Lectin from the Phloem Exudate of <i>Coccinia indica</i> , Retains Carbohydrate-Binding Ability. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4049-4060.	2.6	2
150	Acid Stability of the Kinetically Stable Alkaline Serine Protease Possessing Polyproline II Fold. <i>Protein Journal</i> , 2015, 34, 60-67.	1.6	1
151	Macromolecular properties and partial amino acid sequence of a Kunitz-type protease inhibitor from okra (<i>Abelmoschus esculentus</i>) seeds. <i>Journal of Biosciences</i> , 2019, 44, 1.	1.1	1
152	Thermotropic phase behavior and supramolecular organization of N,O-diacyl-L-alaninols: effect on stratum corneum model membrane. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	1
153	Molecule of the month. <i>Resonance</i> , 2000, 5, 92-99.	0.3	0
154	1P077 Isothermal titration calorimetric and fluorescence quenching studies on the phloem exudate lectin from pumpkin (<i>Cucurbita maxima</i>)(2. Protein function (I),Poster Session,Abstract,Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3		
155	2P165 Biophysical investigations on the interaction of the major bovine seminal plasma protein, PDC-109 with phospholipid membranes and heparin(34. Membrane protein,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 337		
156	The Use of Spin-Label ESR Spectroscopy to Study Protein-Lipid Interactions. , 2019, , 453-461.		0
157	Macromolecular properties and partial amino acid sequence of a Kunitz-type protease inhibitor from		