Brian D Sykes

List of Publications by Year
in descending order

226	17,118	19636 61	15716 125
papers	citations	h-index	g-index

238	238	238	13674
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	1H, 13C and 15N chemical shift referencing in biomolecular NMR. Journal of Biomolecular NMR, 1995, 6, 135-140.	1.6	2,216
2	1H, 13C and 15N random coil NMR chemical shifts of the common amino acids. I. Investigations of nearest-neighbor effects. Journal of Biomolecular NMR, 1995, 5, 67-81.	1.6	1,604
3	[12] Chemical shifts as a tool for structure determination. Methods in Enzymology, 1994, 239, 363-392.	0.4	803
4	VADAR: a web server for quantitative evaluation of protein structure quality. Nucleic Acids Research, 2003, 31, 3316-3319.	6.5	742
5	Î²-Helix structure and ice-binding properties of a hyperactive antifreeze protein from an insect. Nature, 2000, 406, 325-328.	13.7	410
6	Investigations of the Effects of Gender, Diurnal Variation, and Age in Human Urinary Metabolomic Profiles. Analytical Chemistry, 2007, 79, 6995-7004.	3.2	361
7	Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB Inter-Union Task Group on the Standardization of Data Bases of Protein and Nucleic Acid Structures Determined by NMR Spectroscopy. Journal of Biomolecular NMR, 1998, 12, 1-23.	1.6	347
8	Structure-activity relationships of chemokines. Journal of Leukocyte Biology, 1995, 57, 703-711.	1.5	325
9	Binding of Cardiac Troponin-I147-163Induces a Structural Opening in Human Cardiac Troponin-Câ€,â€¡. Biochemistry, 1999, 38, 8289-8298.	1.2	267
10	Structures of the troponin C regulatory domains in the apo and calcium-saturated states. Nature Structural and Molecular Biology, 1995, 2, 784-789.	3.6	262
11	Fluorotyrosine alkaline phosphatase: Internal mobility of individual tyrosines and the role of chemical shift anisotropy as a 19F nuclear spin relaxation mechanism in proteins. Journal of Molecular Biology, 1975, 98, 121-153.	2.0	212
12	A Diminished Role for Hydrogen Bonds in Antifreeze Protein Binding to Iceâ€. Biochemistry, 1997, 36, 14652-14660.	1.2	204
13	Calcium-Induced Structural Transition in the Regulatory Domain of Human Cardiac Troponin Câ€,â€¡. Biochemistry, 1997, 36, 12138-12146.	1.2	198
14	NMR solution structure of calcium-saturated skeletal muscle troponin C. Biochemistry, 1995, 34, 15953-15964.	1.2	197
15	Antifreeze proteins. Current Opinion in Structural Biology, 1997, 7, 828-834.	2.6	197
16	Quantification of the calciumâ€induced secondary structural changes in the regulatory domain of troponinâ€C. Protein Science, 1994, 3, 1961-1974.	3.1	182
17	Structure of Cardiac Muscle Troponin C Unexpectedly Reveals a Closed Regulatory Domain. Journal of Biological Chemistry, 1997, 272, 18216-18221.	1.6	181
18	Refined solution structure of type III antifreeze protein: hydrophobic groups may be involved in the energetics of the proteinâ€“ice interaction. Structure, 1996, 4, 1325-1337.	1.6	177

#	Article	IF	Citations
19	Urine stability for metabolomic studies: effects of preparation and storage. Metabolomics, 2007, 3, 19-27.	1.4	171
20	Metabolomic profiling of asthma: Diagnostic utility of urine nuclear magnetic resonance spectroscopy. Journal of Allergy and Clinical Immunology, 2011, 127, 757-764.e6.	1.5	152
21	Variation of metabolites in normal human urine. Metabolomics, 2007, 3, 439-451.	1.4	146
22	Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB inter-union task group on the standardization of data bases of protein and nucleic acid structures determined by NMR spectroscopy. FEBS Journal, 1998, 256, 1-15.	0.2	137
23	A Molecular Basis for Different Interactions of Marine Toxins with Protein Phosphatase-1. Journal of Biological Chemistry, 1997, 272, 5087-5097.	1.6	133
24	The CXCR3 Binding Chemokine IP-10/CXCL10:â€‰ Structure and Receptor Interactions. Biochemistry, 2002, 41, 10418-10425.	1.2	130
25	Fluorine-19 nuclear magnetic resonance study of fluorotyrosine alkaline phosphatase: the influence of zinc on protein structure and a conformational change induced by phosphate binding. Biochemistry, 1976, 15, 1535-1546.	1.2	127
26	Structural based insights into the role of troponin in cardiac muscle pathophysiology. Journal of Muscle Research and Cell Motility, 2004, 25, 559-579.	0.9	127
27	X-ray crystallography of the binding of the bacterial cell wall trisaccharide NAM-NAG-NAM to lysozyme. Nature, 1979, 282, 875-878.	13.7	125
28	Backbone and methyl dynamics of the regulatory domain of troponin C: anisotropic rotational diffusion and contribution of conformational entropy to calcium affinity. Journal of Molecular Biology, 1998, 278, 667-686.	2.0	123
29	Mechanism of Direct Coupling between Binding and Induced Structural Change in Regulatory Calcium Binding Proteinsâ€. Biochemistry, 1997, 36, 4386-4392.	1.2	122
30	Structureâ€‰function relationship in the globular type III antifreeze protein: Identification of a cluster of surface residues required for binding to ice. Protein Science, 1994, 3, 1760-1769.	3.1	119
31	Cold survival in freeze-intolerant insects. FEBS Journal, 2004, 271, 3285-3296.	0.2	117
32	A glycolytic burst drives glucose induction of global histone acetylation by picNuA4 and SAGA. Nucleic Acids Research, 2009, 37, 3969-3980.	6.5	111
33	Optimization of NMR analysis of biological fluids for quantitative accuracy. Metabolomics, 2006, 2, 113-123.	1.4	108
34	Preferential Heterodimeric Parallel Coiled-coil Formation by Synthetic Max and c-Myc Leucine Zippers: A Description of Putative Electrostatic Interactions Responsible for the Specificity of Heterodimerization. Journal of Molecular Biology, 1995, 254, 505-520.	2.0	106
35	Targeting the sarcomere to correct muscle function. Nature Reviews Drug Discovery, 2015, 14, 313-328.	21.5	105
36	Structure of a Pilin Monomer fromPseudomonas aeruginosa. Journal of Biological Chemistry, 2001, 276, 24186-24193.	1.6	101

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37	Use of lanthanide-induced nuclear magnetic resonance shifts for determination of protein structure in solution: EF calcium binding site of carp parvalbumin. Biochemistry, 1983, 22, 4366-4373.	1.2	97
38	1H NMR Solution Structure of an Active Monomeric Interleukin-8. Biochemistry, 1995, 34, 12983-12990.	1.2	97
39	Interaction of the Second Binding Region of Troponin I with the Regulatory Domain of Skeletal Muscle Troponin C as Determined by NMR Spectroscopy. Journal of Biological Chemistry, 1997, 272, 28494-28500.	1.6	95
40	Ubiquinone-binding Site Mutations in the Saccharomyces cerevisiae Succinate Dehydrogenase Generate Superoxide and Lead to the Accumulation of Succinate. Journal of Biological Chemistry, 2007, 282, 27518-27526.	1.6	94
41	Calcium Binding to the Regulatory N-Domain of Skeletal Muscle Troponin C Occurs in a Stepwise Manner. Biochemistry, 1995, 34, 8330-8340.	1.2	92
42	Structural and Functional Characterization of Transmembrane Segment IV of the NHE1 Isoform of the Na+/H+ Exchanger. Journal of Biological Chemistry, 2005, 280, 17863-17872.	1.6	87
43	Automated 1H and 13C chemical shift prediction using the BioMagResBank. Journal of Biomolecular NMR, 1997, 10, 329-336.	1.6	85
44	Solution Structure of Eotaxin, a Chemokine That Selectively Recruits Eosinophils in Allergic Inflammation. Journal of Biological Chemistry, 1998, 273, 22471-22479.	1.6	85
45	Disulfide Bridges in Interleukin-8 Probed Using Non-Natural Disulfide Analogues:Â Dissociation of Roles in Structure from Functionâ€. Biochemistry, 1999, 38, 7653-7658.	1.2	83
46	Targeted expression, purification, and cleavage of fusion proteins from inclusion bodies in Escherichia coli. FEBS Letters, 2014, 588, 247-252.	1.3	82
47	Interaction of troponin I and troponin C. Journal of Molecular Biology, 1991, 222, 405-421.	2.0	79
48	Fluorotyrosine alkaline phosphatase. Fluorine-19 nuclear magnetic resonance relaxation times and molecular motion of the individual fluorotyrosines. Biochemistry, 1974, 13, 3431-3437.	1.2	75
49	Calcium-Induced Dimerization of Troponin C: Mode of Interaction and Use of Trifluoroethanol as a Denaturant of Quaternary Structure. Biochemistry, 1995, 34, 7365-7375.	1.2	73
50	Structure of the Regulatory N-domain of Human Cardiac Troponin C in Complex with Human Cardiac Troponin I147â€“163 and Bepridil. Journal of Biological Chemistry, 2002, 277, 31124-31133.	1.6	73
51	NMR solution structure of a highly stablede novo heterodimeric coiled-coil. Biopolymers, 2004, 75, 367-375.	1.2	72
52	Internal pH indicators for biomolecular NMR. Journal of Biomolecular NMR, 2008, 41, 5-7.	1.6	70
53	Metabolomic Biomarkers in a Model of Asthma Exacerbation. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 25-34.	2.5	69
54	Growth factor receptors: Structure, mechanism, and drug discovery. Biopolymers, 1997, 43, 339-366.	1.2	68

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55	NMR Studies of Ca2+Binding to the Regulatory Domains of Cardiac and E41A Skeletal Muscle Troponin C Reveal the Importance of Site I to Energetics of the Induced Structural Changesâ€. Biochemistry, 1997, 36, 12519-12525.	1.2	67
56	Binding of an Oligopeptide to a Specific Plane of Ice. Journal of Biological Chemistry, 1998, 273, 11714-11718.	1.6	67
57	Structureâ€based thermodynamic analysis of the dissociation of protein phosphataseâ€1 catalytic subunit and microcystinâ€LR docked complexes. Protein Science, 2000, 9, 252-264.	3.1	67
58	Identification of the ice-binding face of antifreeze protein fromTenebrio molitor. FEBS Letters, 2002, 529, 261-267.	1.3	66
59	Application of transient nuclear magnetic resonance methods to the measurement of biological exchange rates. Interaction of trifluoroacetyl-D-phenylalanine with the chymotrypsins. Journal of the American Chemical Society, 1969, 91, 949-955.	6.6	64
60	Structural and Functional Characterization of Transmembrane Segment VII of the Na+/H+ Exchanger Isoform 1. Journal of Biological Chemistry, 2006, 281, 29817-29829.	1.6	63
61	Structural characterization of a monomeric chemokine: Monocyte chemoattractant protein-3. FEBS Letters, 1996, 395, 277-282.	1.3	62
62	Structure of the C-domain of Human Cardiac Troponin C in Complex with the Ca2+ Sensitizing Drug EMD 57033. Journal of Biological Chemistry, 2001, 276, 25456-25466.	1.6	62
63	Structure-Function Analysis of the Adherence-Binding Domain on the Pilin of Pseudomonas aeruginosa Strains PAK and KB7. Biochemistry, 1995, 34, 12963-12972.	1.2	61
64	A structural and functional perspective into the mechanism of Ca2+-sensitizers that target the cardiac troponin complex. Journal of Molecular and Cellular Cardiology, 2010, 49, 1031-1041.	0.9	60
65	Structure and Dynamics of a Î²-Helical Antifreeze Protein,. Biochemistry, 2002, 41, 5515-5525.	1.2	59
66	An Interplay between Protein Disorder and Structure Confers the Ca2+ Regulation of Striated Muscle. Journal of Molecular Biology, 2006, 361, 625-633.	2.0	59
67	Solution Structure of Human Cardiac Troponin C in Complex with the Green Tea Polyphenol, (â^')-Epigallocatechin 3-Gallate. Journal of Biological Chemistry, 2009, 284, 23012-23023.	1.6	59
68	Interactions of Structural C and Regulatory N Domains of Troponin C with Repeated Sequence Motifs in Troponin I. Biochemistry, 1997, 36, 7601-7606.	1.2	58
69	Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. FEBS Journal, 2000, 267, 6082-6088.	0.2	58
70	The cardiac-specific N-terminal region of troponin I positions the regulatory domain of troponin C. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14412-14417.	3.3	57
71	NMR Characterization of Side Chain Flexibility and Backbone Structure in the Type I Antifreeze Protein at Near Freezing Temperaturesâ€. Biochemistry, 1996, 35, 16698-16704.	1.2	56
72	Structure and Interaction Site of the Regulatory Domain of Troponin-C When Complexed with the 96â^'148 Region of Troponin-Iâ€. Biochemistry, 1998, 37, 12419-12430.	1.2	56

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73	Smartnotebook: a semi-automated approach to protein sequential NMR resonance assignments. Journal of Biomolecular NMR, 2003, 27, 313-321.	1.6	56
74	Use of proline mutants to help solve the NMR solution structure of type III antifreeze protein. Protein Science, 1993, 2, 1411-1428.	3.1	54
75	Dynamics and Thermodynamics of the Regulatory Domain of Human Cardiac Troponin C in the Apo- and Calcium-Saturated Statesâ€. Biochemistry, 1998, 37, 18032-18044.	1.2	54
76	Temperature coefficients of amide proton NMR resonance frequencies in trifluoroethanol: A monitor of intramolecular hydrogen bonds in helical peptides?. Journal of Biomolecular NMR, 1996, 8, 93-97.	1.6	53
77	Role of the Structural Domain of Troponin C in Muscle Regulation:Â NMR Studies of Ca2+Binding and Subsequent Interactions with Regions 1â˜40 and 96â˜115 of Troponin Iâ€. Biochemistry, 2000, 39, 2902-2911.	1.2	52
78	In Situ Orientations of Protein Domains. Molecular Cell, 2003, 11, 865-874.	4.5	51
79	Comparison of NMR solution structures of the receptor binding domains of Pseudomonas aeruginosa pili strains PAO, KB7, and PAK: implications for receptor binding and synthetic vaccine design. Biochemistry, 1995, 34, 16255-16268.	1.2	50
80	Disulfide bond mapping and structural characterization of spruce budworm antifreeze protein. FEBS Journal, 1998, 258, 445-453.	0.2	50
81	Comparison of the solution structures of microcystin-LR and motuporin. Nature Structural and Molecular Biology, 1995, 2, 114-116.	3.6	49
82	Folding and Structural Characterization of Highly Disulfide-Bonded Beetle Antifreeze Protein Produced in Bacteria. Protein Expression and Purification, 2000, 19, 148-157.	0.6	49
83	Interaction of Cardiac Troponin C with Ca2+Sensitizer EMD 57033 and Cardiac Troponin I Inhibitory Peptideâ€. Biochemistry, 2000, 39, 8782-8790.	1.2	49
84	Dynamics of the C-Terminal Region of TnI in the Troponin Complex in Solution. Biophysical Journal, 2006, 90, 2436-2444.	0.2	49
85	Modulation of Cardiac Troponin C Function by the Cardiac-Specific N-Terminus of Troponin I: Influence of PKA Phosphorylation and Involvement in Cardiomyopathies. Journal of Molecular Biology, 2008, 375, 735-751.	2.0	49
86	Defining the Region of Troponin-I that Binds to Troponin-Câ€. Biochemistry, 1999, 38, 5478-5489.	1.2	48
87	Kinetic studies of calcium and cardiac troponin I peptide binding to human cardiac troponin C using NMR spectroscopy. European Biophysics Journal, 2002, 31, 245-256.	1.2	48
88	CAMRA: chemical shift based computer aided protein NMR assignments. Journal of Biomolecular NMR, 1998, 12, 395-405.	1.6	46
89	Neutrophil-activating Peptide-2 and Melanoma Growth-stimulatory Activity Are Functional as Monomers for Neutrophil Activation. Journal of Biological Chemistry, 1997, 272, 1725-1729.	1.6	45
90	Comparative modeling of the threeâ€dimensional structure of Type II antifreeze protein. Protein Science, 1995, 4, 460-471.	3.1	45

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91	Alternative Roles for Putative Ice-Binding Residues in Type I Antifreeze Proteinâ€. Biochemistry, 1999, 38, 4743-4749.	1.2	43
92	Structure and Dynamics of the C-domain of Human Cardiac Troponin C in Complex with the Inhibitory Region of Human Cardiac Troponin I. Journal of Biological Chemistry, 2003, 278, 27024-27034.	1.6	43
93	The Metabolomics of Asthma. Chest, 2012, 141, 1295-1302.	0.4	42
94	The Ice-Binding Site of Sea Raven Antifreeze Protein Is Distinct from the Carbohydrate-Binding Site of the Homologous C-Type Lectinâ€. Biochemistry, 1998, 37, 17745-17753.	1.2	41
95	Structural and Functional Consequences of the Cardiac Troponin C L48Q Ca²⁺-Sensitizing Mutation. Biochemistry, 2012, 51, 4473-4487.	1.2	41
96	The NMR angle on troponin C. Biochemistry and Cell Biology, 1998, 76, 302-312.	0.9	40
97	Temperature Dependence of Dynamics and Thermodynamics of the Regulatory Domain of Human Cardiac Troponin Câ€. Biochemistry, 2001, 40, 12541-12551.	1.2	40
98	Structure, Dynamics, and Thermodynamics of the Structural Domain of Troponin C in Complex with the Regulatory Peptide 1â˜40 of Troponin Iâ€,â€¡. Biochemistry, 2001, 40, 10063-10077.	1.2	40
99	Interaction of cardiac troponin with cardiotonic drugs: A structural perspective. Biochemical and Biophysical Research Communications, 2008, 369, 88-99.	1.0	39
100	Structures reveal details of small molecule binding to cardiac troponin. Journal of Molecular and Cellular Cardiology, 2016, 101, 134-144.	0.9	39
101	Backbone dynamics of the human cc chemokine eotaxin: Fast motions, slow motions, and implications for receptor binding. Protein Science, 1999, 8, 2041-2054.	3.1	37
102	Energetics of the Induced Structural Change in a Ca2+Regulatory Protein:Â Ca2+and Troponin I Peptide Binding to the E41A Mutant of the N-Domain of Skeletal Troponin Câ€. Biochemistry, 2000, 39, 12731-12738.	1.2	37
103	Solution secondary structure of calciumâ€saturated troponin C monomer determined by multidimensional heteronuclear NMR spectroscopy. Protein Science, 1995, 4, 1279-1290.	3.1	36
104	Structure of Type I Antifreeze Protein and Mutants in Supercooled Water. Biophysical Journal, 2001, 81, 1677-1683.	0.2	36
105	Solution structure of the regulatory domain of human cardiac troponin C in complex with the switch region of cardiac troponin I and W7: The basis of W7 as an inhibitor of cardiac muscle contraction. Journal of Molecular and Cellular Cardiology, 2010, 48, 925-933.	0.9	36
106	Rewiring AMPK and Mitochondrial Retrograde Signaling for Metabolic Control of Aging and Histone Acetylation in Respiratory-Defective Cells. Cell Reports, 2014, 7, 565-574.	2.9	36
107	Computerâ€Aided Drug Discovery Approach Finds Calcium Sensitizer of Cardiac Troponin. Chemical Biology and Drug Design, 2015, 85, 99-106.	1.5	36
108	NMR solution structure and flexibility of a peptide antigen representing the receptor binding domain of Pseudomonas aeruginosa. Biochemistry, 1993, 32, 13432-13440.	1.2	35

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109	Generating Multiple Conformations of Flexible Peptides in Solution on the Basis of NMR Nuclear Overhauser Effect Data: Application to Desmopressin. Journal of the American Chemical Society, 1995, 117, 8627-8634.	6.6	35
110	Freezing of a Fish Antifreeze Protein Results in Amyloid Fibril Formation. Biophysical Journal, 2003, 84, 552-557.	0.2	35
111	NMR structure of CXCR3 binding chemokine CXCL11 (ITAC). Protein Science, 2004, 13, 2022-2028.	3.1	35
112	NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1. Journal of Biological Chemistry, 2000, 275, 26799-26805.	1.6	35
113	Role of interchain Î±â€helical hydrophobic interactions in Ca²⁺ affinity, formation, and stability of a twoâ€site domain in troponin C. Protein Science, 1992, 1, 945-955.	3.1	34
114	Interaction of the receptor binding domains of Pseudomonas aeruginosa pili strains PAK, PAO, KB7 and P1 to a cross-reactive antibody and receptor analog: implications for synthetic vaccine design. Journal of Molecular Biology, 1997, 267, 382-402.	2.0	34
115	Backbone dynamics of SDF-1Î± determined by NMR: Interpretation in the presence of monomer-dimer equilibrium. Protein Science, 2006, 15, 2568-2578.	3.1	34
116	NMR Structure of a Bifunctional Rhodamine Labeled N-Domain of Troponin C Complexed with the Regulatory â€œSwitchâ€•Peptide from Troponin I:â€‰ Implications for in Situ Fluorescence Studies in Muscle Fibers,. Biochemistry, 2003, 42, 4333-4348.	1.2	33
117	Structure of trans-Resveratrol in Complex with the Cardiac Regulatory Protein Troponin C. Biochemistry, 2011, 50, 1309-1320.	1.2	33
118	Fourier transform ion cyclotron resonance mass spectrometric detection of small Ca2+-induced conformational changes in the regulatory domain of human cardiac troponin C. Journal of the American Society for Mass Spectrometry, 1999, 10, 703-710.	1.2	32
119	Structure/function of human herpesvirus-8 MIP-II (1-71) and the antagonist N-terminal segment (1-10). FEBS Letters, 2001, 489, 171-175.	1.3	32
120	Thermodynamic insights into proteins from NMR spin relaxation studies. Current Opinion in Structural Biology, 2001, 11, 555-559.	2.6	32
121	Spruce Budworm Antifreeze Protein: Changes in Structure and Dynamics at Low Temperature. Journal of Molecular Biology, 2003, 327, 1155-1168.	2.0	32
122	Calcium-dependent Changes in the Flexibility of the Regulatory Domain of Troponin C in the Troponin Complex. Journal of Biological Chemistry, 2005, 280, 21924-21932.	1.6	32
123	Defining the Binding Site of Levosimendan and Its Analogues in a Regulatory Cardiac Troponin Câ”Troponin I Complex. Biochemistry, 2008, 47, 7485-7495.	1.2	32
124	High-yield expression of isotopically labeled peptides for use in NMR studies. Protein Science, 2003, 12, 1786-1791.	3.1	31
125	Human CC Chemokine I-309, Structural Consequences of the Additional Disulfide Bond,. Biochemistry, 2000, 39, 6053-6059.	1.2	30
126	The role of side chain conformational flexibility in surface recognition byTenebrio molitorantifreeze protein. Protein Science, 2003, 12, 1323-1331.	3.1	30

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127	Phosphorylation and Mutation of Human Cardiac Troponin I Deferentially Destabilize the Interaction of the Functional Regions of Troponin I with Troponin Câ€‚â€¡. Biochemistry, 2003, 42, 14460-14468.	1.2	30
128	Differential stability of the bovine prion protein upon urea unfolding. Protein Science, 2009, 18, 2172-2182.	3.1	30
129	Interaction of troponin I and troponin C: use of the two-dimensional transferred nuclear Overhauser effect to determine the structure of a Gly-110 inhibitory troponin I peptide analog when bound to cardiac troponin C. BBA - Proteins and Proteomics, 1992, 1160, 35-54.	2.1	28
130	Lipid-bound Structure of an Apolipoprotein E-derived Peptide. Journal of Biological Chemistry, 2003, 278, 25998-26006.	1.6	28
131	Stepwise binding of small molecules to proteins. Nuclear magnetic resonance and temperature jump studies of the binding of 4-(N-acetylaminoglucosyl)-N-acetylglucosamine to lysozyme. Biochemistry, 1975, 14, 1893-1899.	1.2	27
132	Mapping the Interacting Regions between Troponins T and C. Journal of Biological Chemistry, 2001, 276, 36606-36612.	1.6	27
133	The Binding of W7, an Inhibitor of Striated Muscle Contraction, to Cardiac Troponin Câ€. Biochemistry, 2005, 44, 15750-15759.	1.2	27
134	The HoxB1 hexapeptide is a prefolded domain: Implications for the Pbx1/Hox interaction. Protein Science, 2001, 10, 1244-1253.	3.1	26
135	Pulling the calcium trigger. Nature Structural and Molecular Biology, 2003, 10, 588-589.	3.6	26
136	Interaction of the lacZ Î²-galactosidase of Escherichia coli with some Î²-d-galactopyranoside competitive inhibitors. Biochemical Journal, 1979, 177, 145-152.	1.7	25
137	Backbone dynamics of a bacterially expressed peptide from the receptor binding domain of Pseudomonas aeruginosa pilin strain PAK from heteronuclear 1H-15N NMR spectroscopy. Journal of Biomolecular NMR, 2000, 17, 239-255.	1.6	25
138	The Dilated Cardiomyopathy G159D Mutation in Cardiac Troponin C Weakens the Anchoring Interaction with Troponin I. Biochemistry, 2008, 47, 10950-10960.	1.2	25
139	Structural analysis of the Na⁺/H⁺ exchanger isoform 1 (NHE1) using the divide and conquer approachThis paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting â€" Membrane Proteins in Health and Disease, and has undergone the Journalâ€™s usual peer review process.. Biochemistry and Cell Biology, 2011, 89, 189-199.	0.9	24
140	Effects of Phe-to-Trp mutation and fluorotryptophan incorporation on the solution structure of cardiac troponin C, and analysis of its suitability as a potential probe for in situ NMR studies. Protein Science, 2005, 14, 2447-2460.	3.1	23
141	Is there nascent structure in the intrinsically disordered region of troponin I?. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1240-1250.	1.5	23
142	Effects of T142 Phosphorylation and Mutation R145G on the Interaction of the Inhibitory Region of Human Cardiac Troponin I with the C-Domain of Human Cardiac Troponin Câ€. Biochemistry, 2002, 41, 7267-7274.	1.2	22
143	Relative and Regional Stabilities of the Hamster, Mouse, Rabbit, and Bovine Prion Proteins toward Urea Unfolding Assessed by Nuclear Magnetic Resonance and Circular Dichroism Spectroscopies. Biochemistry, 2011, 50, 7536-7545.	1.2	22
144	A method for the facile solid-phase synthesis of gramicidin S and its analogs. International Journal of Peptide Research and Therapeutics, 1996, 3, 53-60.	0.1	21

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145	UBC9-dependent Association between Calnexin and Protein Tyrosine Phosphatase 1B (PTP1B) at the Endoplasmic Reticulum. Journal of Biological Chemistry, 2015, 290, 5725-5738.	1.6	20
146	A determination of the relative compactness of the Ca2+ -binding sites of a Ca2+ -binding fragment of troponin-c and parvalbumin using lanthanide-induced 1 H NMR shifts. FEBS Letters, 1979, 98, 169-172.	1.3	19
147	Relative stabilities of synthetic peptide homoâ€•and heterodimeric troponinâ€€ domains. Protein Science, 1994, 3, 1010-1019.	3.1	19
148	Effect of Temperature and the F27W Mutation on the Ca2+Activated Structural Transition of Trout Cardiac Troponin Câ€. Biochemistry, 2003, 42, 6418-6426.	1.2	19
149	The Role of Electrostatics in the Interaction of the Inhibitory Region of Troponin I with Troponin C. Biochemistry, 2005, 44, 14750-14759.	1.2	19
150	A ¹H NMR study of a ternary peptide complex that mimics the interaction between troponin C and troponin I. Protein Science, 1992, 1, 1595-1603.	3.1	18
151	ORB, a homology-based program for the prediction of protein NMR chemical shifts. Journal of Biomolecular NMR, 1997, 10, 165-179.	1.6	18
152	Structure of the Inhibitor W7 Bound to the Regulatory Domain of Cardiac Troponin C. Biochemistry, 2009, 48, 5541-5552.	1.2	18
153	Versatile Cardiac Troponin Chimera for Muscle Protein Structural Biology and Drug Discovery. ACS Chemical Biology, 2014, 9, 2121-2130.	1.6	18
154	The structural and functional effects of the familial hypertrophic cardiomyopathy-linked cardiac troponin C mutation, L29Q. Journal of Molecular and Cellular Cardiology, 2015, 87, 257-269.	0.9	18
155	NMR structural studies on antifreeze proteins. Biochemistry and Cell Biology, 1998, 76, 284-293.	0.9	17
156	Effect of Temperature on the Structure of Trout Troponin C. Biochemistry, 2004, 43, 4955-4963.	1.2	17
157	Determination of the 19F NMR chemical shielding tensor and crystal structure of 5-fluoro-dl-tryptophan. Journal of Magnetic Resonance, 2007, 187, 88-96.	1.2	17
158	Unmasking Ligand Binding Motifs: Identification of a Chemokine Receptor Motif by NMR Studies of Antagonist Peptides. Journal of Molecular Biology, 2003, 327, 329-334.	2.0	16
159	Strategies for dealing with conformational sampling in structural calculations of flexible or kinked transmembrane peptidesThis paper is one of a selection of papers published in this Special Issue, entitled CSBMCB â€" Membrane Proteins in Health and Disease.. Biochemistry and Cell Biology, 2006, 84, 918-929.	0.9	16
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