Robert S Hodges

List of Publications by Year
in descending order

158 papers	12,506 citations	16451 64 h-index	25787 108 g-index
160 all docs	160 docs citations	160 times ranked	9616 citing authors

#	Article	IF	Citations
1	The Duchenne muscular dystrophy gene product is localized in sarcolemma of human skeletal muscle. Nature, 1988, 333, 466-469.	27.8	650
2	Role of Peptide Hydrophobicity in the Mechanism of Action of Î±-Helical Antimicrobial Peptides. Antimicrobial Agents and Chemotherapy, 2007, 51, 1398-1406.	3.2	587
3	Rational Design of Î±-Helical Antimicrobial Peptides with Enhanced Activities and Specificity/Therapeutic Index. Journal of Biological Chemistry, 2005, 280, 12316-12329.	3.4	518
4	Effects of net charge and the number of positively charged residues on the biological activity of amphipathic Î±â€helical cationic antimicrobial peptides. Biopolymers, 2008, 90, 369-383.	2.4	390
5	Relationship of sidechain hydrophobicity and Î±-helical propensity on the stability of the single-stranded amphipathic Î±-helix. Journal of Peptide Science, 1995, 1, 319-329.	1.4	317
6	Protein denaturation with guanidine hydrochloride or urea provides a different estimate of stability depending on the contributions of electrostatic interactions. Protein Science, 1994, 3, 1984-1991.	7.6	310
7	Designing Heterodimeric Two-stranded Î±-Helical Coiled-coils. Journal of Biological Chemistry, 2002, 277, 37272-37279.	3.4	271
8	Effect of Chain Length on the Formation and Stability of Synthetic .alpha.-Helical Coiled Coils. Biochemistry, 1994, 33, 15501-15510.	2.5	245
9	Effects of side-chain characteristics on stability and oligomerization state of a de Novo -designed model coiled-coil: 20 amino acid substitutions in position â€œdâ€•1 1Edited by P. E. Wright. Journal of Molecular Biology, 2000, 300, 377-402.	4.2	238
10	Dissociation of Antimicrobial and Hemolytic Activities in Cyclic Peptide Diastereomers by Systematic Alterations in Amphipathicity. Journal of Biological Chemistry, 1999, 274, 13181-13192.	3.4	230
11	Breakdown and Release of Myofilament Proteins During Ischemia and Ischemia/Reperfusion in Rat Hearts. Circulation Research, 1998, 82, 261-271.	4.5	218
12	The Role of Interhelical Ionic Interactions in Controlling Protein Folding and Stability. Journal of Molecular Biology, 1994, 237, 500-512.	4.2	208
13	A Diminished Role for Hydrogen Bonds in Antifreeze Protein Binding to Iceâ€. Biochemistry, 1997, 36, 14652-14660.	2.5	204
14	Electrostatic Interactions Control the Parallel and Antiparallel Orientation of .alpha.-Helical Chains in Two-Stranded .alpha.-Helical Coiled-Coils. Biochemistry, 1994, 33, 3862-3871.	2.5	186
15	Structural Characterization of the SARS-Coronavirus Spike S Fusion Protein Core. Journal of Biological Chemistry, 2004, 279, 20836-20849.	3.4	182
16	Relationship between amide proton chemical shifts and hydrogen bonding in amphipathic .alpha.-helical peptides. Journal of the American Chemical Society, 1992, 114, 4320-4326.	13.7	172
17	Disulfide bond contribution to protein stability: Positional effects of substitution in the hydrophobic core of the two-stranded .alpha.-helical coiled-coil. Biochemistry, 1993, 32, 3178-3187.	2.5	171
18	Î±-Helical Protein Assembly Motifs. Journal of Biological Chemistry, 1997, 272, 2583-2586.	3.4	169

#	ARTICLE	IF	CITATIONS
19	Effects of ion-pairing reagents on the prediction of peptide retention in reversed-phase high-resolution liquid chromatography. Journal of Chromatography A, 1987, 386, 205-222.	3.7	166
20	De novo design of Î±-helical proteins: basic research to medical applications. Biochemistry and Cell Biology, 1996, 74, 133-154.	2.0	166
21	Packing and hydrophobicity effects on protein folding and stability: Effects of <i>Î²</i>â€branched amino acids, valine and isoleucine, on the formation and stability of twoâ€stranded <i>Î±</i>â€helical coiled coils/leucine zippers. Protein Science, 1993, 2, 383-394.	7.6	165
22	New ice-binding face for type I antifreeze protein. FEBS Letters, 1999, 463, 87-91.	2.8	164
23	Synthetic model proteins: the relative contribution of leucine residues at the nonequivalent positions of the 3-4 hydrophobic repeat to the stability of the two-stranded .alpha.-helical coiled-coil. Biochemistry, 1992, 31, 5739-5746.	2.5	163
24	The role of position a in determining the stability and oligomerization state of Î±â€helical coiled coils: 20 amino acid stability coefficients in the hydrophobic core of proteins. Protein Science, 1999, 8, 2312-2329.	7.6	149
25	Gramicidin S is active against both gramâ€positive and gramâ€negative bacteria. International Journal of Peptide and Protein Research, 1996, 47, 460-466.	0.1	149
26	Effects of high-performance liquid chromatographic solvents and hydrophobic matrices on the secondary and quarternary structure of a model protein. Journal of Chromatography A, 1984, 317, 129-140.	3.7	145
27	The twoâ€stranded Î±â€helical coiledâ€coil is an ideal model for studying protein stability and subunit interactions. Biopolymers, 1992, 32, 419-426.	2.4	131
28	Prediction of peptide retention times in reversed-phase high-performance liquid chromatography II. Correlation of observed and predicted peptide retention times factors and influencing the retention times of peptides. Journal of Chromatography A, 1986, 359, 519-532.	3.7	123
29	Determination of intrinsic hydrophilicity/hydrophobicity of amino acid side chains in peptides in the absence of nearest-neighbor or conformational effects. Biopolymers, 2006, 84, 283-297.	2.4	123
30	Salt effects on protein stability: two-strandedÎ±-helical coiled-coils containing inter- or intrahelical ion pairs. Journal of Molecular Biology, 1997, 267, 1039-1052.	4.2	120
31	Real-Time Monitoring of the Interactions of Two-Strandedde NovoDesigned Coiled-Coils:Â Effect of Chain Length on the Kinetic and Thermodynamic Constants of Bindingâ€. Biochemistry, 2003, 42, 1754-1763.	2.5	120
32	Membrane-bound structure and alignment of the antimicrobial beta-sheet peptide gramicidin S derived from angular and distance constraints by solid state 19F-NMR. Journal of Biomolecular NMR, 2001, 21, 191-208.	2.8	116
33	The net energetic contribution of interhelical electrostatic attractions to coiled-coil stability. Protein Engineering, Design and Selection, 1994, 7, 1365-1372.	2.1	115
34	Intrinsic amino acid sideâ€chain hydrophilicity/hydrophobicity coefficients determined by reversedâ€phase highâ€performance liquid chromatography of model peptides: Comparison with other hydrophilicity/hydrophobicity scales. Biopolymers, 2009, 92, 573-595.	2.4	114
35	Comparison of Biophysical and Biologic Properties of alpha-Helical Enantiomeric Antimicrobial Peptides. Chemical Biology and Drug Design, 2006, 67, 162-173.	3.2	113
36	Protein destabilization by electrostatic repulsions in the twoâ€stranded Î±â€helical coiledâ€coil/leucine zipper. Protein Science, 1995, 4, 237-250.	7.6	108

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37	Effect of peptide chain length on peptide retention behaviour in reversed-phase chromatogrphy. Journal of Chromatography A, 1988, 458, 193-205.	3.7	107
38	Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns. Journal of Chromatography A, 1991, 548, 13-24.	3.7	102
39	Rational Design of Î±â€Helical Antimicrobial Peptides to Target Gramâ€negative Pathogens, <i>Acinetobacter baumannii</i> and <i>Pseudomonas aeruginosa</i>: Utilization of Charge, â€˜Specificity Determinants,â€™ Total Hydrophobicity, Hydrophobe Type and Location as Design Parameters to Improve the Therapeutic Ratio. Chemical Biology and Drug Design, 2011, 77, 225-240.	3.2	100
40	Reversed-phase chromatography of synthetic amphipathic Î±-helical peptides as a model for ligand/receptor interactions Effect of changing hydrophobic environment on the relative hydrophilicity/hydrophobicity of amino acid side-chains. Journal of Chromatography A, 1994, 676, 139-153.	3.7	99
41	Insights into the mechanism of heterodimerization from the 1H-NMR solution structure of the c-Myc-Max heterodimeric leucine zipper. Journal of Molecular Biology, 1998, 281, 165-181.	4.2	97
42	Orientation, positional, additivity, and oligomerization-state effects of interhelical ion pairs in Î±-helical coiled-coils. Journal of Molecular Biology, 1998, 283, 993-1012.	4.2	96
43	Stabilizing and Destabilizing Clusters in the Hydrophobic Core of Long Two-stranded Î±-Helical Coiled-coils. Journal of Biological Chemistry, 2004, 279, 21576-21588.	3.4	96
44	Correlation of protein retention times in reversed-phase chromatography with polypeptide chain length and hydrophobicity. Journal of Chromatography A, 1989, 476, 363-375.	3.7	95
45	Effect of the Î±-amino group on peptide retention behaviour in reversed-phase chromatography Determination of the pKa values of the Î±-amino group of 19 different N-terminal amino acid residues. Journal of Chromatography A, 1993, 646, 17-30.	3.7	94
46	Mixed-mode hydrophilic and ionic interaction chromatography rivals reversed-phase liquid chromatography for the separation of peptides. Journal of Chromatography A, 1992, 594, 75-86.	3.7	88
47	Engineering a de novo-designed coiled-coil heterodimerization domain for the rapid detection, purification and characterization of recombinantly expressed peptides and proteins. Protein Engineering, Design and Selection, 1996, 9, 1029-1042.	2.1	88
48	Use of a heterodimeric coiled-coil system for biosensor application and affinity purification. Biomedical Applications, 1998, 715, 307-329.	1.7	85
49	Molecular Organization and Dynamics of 1-Palmitoyl-2-oleoylphosphatidylcholine Bilayers Containing a Transmembrane Î±-Helical Peptideâ€. Biochemistry, 1998, 37, 3156-3164.	2.5	83
50	Formation of Parallel and Antiparallel Coiled-coils Controlled by the Relative Positions of Alanine Residues in the Hydrophobic Core. Journal of Biological Chemistry, 1996, 271, 3995-4001.	3.4	82
51	De novo design of a model peptide sequence to examine the effects of single amino acid substitutions in the hydrophobic core on both stability and oligomerization state of coiled-coils 1 1Edited by P. Wright. Journal of Molecular Biology, 1999, 285, 785-803.	4.2	81
52	A single-stranded amphipathic .alpha.-helix in aqueous solution: Design, structural characterization, and its application for determining .alpha.-helical propensities of amino acids. Biochemistry, 1993, 32, 6190-6197.	2.5	80
53	Primary sequence analysis and folding behavior of EF hands in relation to the mechanism of action of troponin C and calmodulin. FEBS Letters, 1983, 160, 1-6.	2.8	78
54	Lactam bridge stabilization of Î±-helical peptides: Ring size, orientation and positional effects. Journal of Peptide Science, 1995, 1, 274-282.	1.4	78

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55	The Effects of Interhelical Electrostatic Repulsions between Glutamic Acid Residues in Controlling the Dimerization and Stability of Two-stranded Î±-Helical Coiled-coils. Journal of Biological Chemistry, 1995, 270, 25495-25506.	3.4	78
56	Kinetic Study on the Formation of a de Novo Designed Heterodimeric Coiled-Coil:Â Use of Surface Plasmon Resonance To Monitor the Association and Dissociation of Polypeptide Chainsâ€. Biochemistry, 1996, 35, 12175-12185.	2.5	78
57	Mixedâ€mode hydrophilic interaction/cationâ€exchange chromatography (HILIC/CEX) of peptides and proteins. Journal of Separation Science, 2008, 31, 2754-2773.	2.5	74
58	Î±-Helical Propensities of Amino Acids in the Hydrophobic Face of an Amphipathic Î±- Helix. Protein and Peptide Letters, 1994, 1, 114-119.	0.9	74
59	Structure Effects of Double D-Amino Acid Replacements: A Nuclear Magnetic Resonance and Circular Dichroism Study Using Amphipathic Model Helixes. Biochemistry, 1995, 34, 12954-12962.	2.5	73
60	Effects of Hydrophobicity on the Antifungal Activity of Î±â€Helical Antimicrobial Peptides. Chemical Biology and Drug Design, 2008, 72, 483-495.	3.2	73
61	Strong cation-exchange high-performance liquid chromatography of peptides. Journal of Chromatography A, 1989, 476, 377-389.	3.7	72
62	Siz-exclusion high-performance liquid chromatography of peptides. Journal of Chromatography A, 1987, 397, 99-112.	3.7	71
63	Ion Pairs Significantly Stabilize Coiled-coils in the Absence of Electrolyte. Journal of Molecular Biology, 1996, 255, 367-372.	4.2	68
64	Unzipping the secrets of coiled-coils. Current Biology, 1992, 2, 122-124.	3.9	66
65	A natural variant of type I antifreeze protein with four iceâ€binding repeats is a particularly potent antifreeze. Protein Science, 1996, 5, 1150-1156.	7.6	62
66	Development of the Structural Basis for Antimicrobial and Hemolytic Activities of Peptides Based on Gramicidin S and Design of Novel Analogs Using NMR Spectroscopy. Journal of Biological Chemistry, 2000, 275, 14287-14294.	3.4	60
67	A Novel Method to Measure Self-association of Small Amphipathic Molecules. Journal of Biological Chemistry, 2003, 278, 22918-22927.	3.4	60
68	Anti-Tuberculosis Activity of α-Helical Antimicrobial Peptides: De Novo Designed L- and D-Enantiomers Versus L- and D-LL37. Protein and Peptide Letters, 2011, 18, 241-252.	0.9	55
69	The role of the carboxyl terminal ?-helical coiled-coil domain in osmosensing by transporter ProP ofEscherichia coli. Journal of Molecular Recognition, 2000, 13, 309-322.	2.1	54
70	Antifreeze protein from shorthorn sculpin: Identification of the ice-binding surface. Protein Science, 2009, 10, 2566-2576.	7.6	53
71	Investigation of electrostatic interactions in two-stranded coiled-coils through residue shuffling. Biophysical Chemistry, 1996, 59, 299-314.	2.8	52
72	â€œSpecificity Determinantsâ€• Improve Therapeutic Indices of Two Antimicrobial Peptides Piscidin 1 and Dermaseptin S4 Against the Gram-negative Pathogens Acinetobacter baumannii and Pseudomonas aeruginosa. Pharmaceuticals, 2014, 7, 366-391.	3.8	52

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73	Temperature profiling of polypeptides in reversed-phase liquid chromatography. Journal of Chromatography A, 2003, 1009, 29-43.	3.7	51
74	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.	2.5	50
75	Requirements for prediction of peptide retention time in reversed-phase high-performance liquid chromatography: Hydrophilicity/hydrophobicity of side-chains at the N- and C-termini of peptides are dramatically affected by the end-groups and location. Journal of Chromatography A, 2007, 1141, 212-225.	3.7	50
76	Advantages of a Synthetic Peptide Immunogen Over a Protein Immunogen in the Development of an Antiâ€Pilus Vaccine for <i>Pseudomonas aeruginosa</i>. Chemical Biology and Drug Design, 2009, 74, 33-42.	3.2	47
77	Preparative purification of peptides by reversed-phase chromatography. Journal of Chromatography A, 1988, 444, 349-362.	3.7	43
78	Alternative Roles for Putative Ice-Binding Residues in Type I Antifreeze Proteinâ€. Biochemistry, 1999, 38, 4743-4749.	2.5	43
79	A Differential Scanning Calorimetric and31P NMR Spectroscopic Study of the Effect of Transmembrane Î±-Helical Peptides on the Lamellarâˆ'Reversed Hexagonal Phase Transition of Phosphatidylethanolamine Model Membranesâ€. Biochemistry, 2001, 40, 760-768.	2.5	43
80	Synthetic peptide vaccine and antibody therapeutic development: Prevention and treatment of Pseudomonas aeruginosa. Biopolymers, 2003, 71, 141-168.	2.4	43
81	Preparative reversed-phase high-performance liquid chromatography collection efficiency for an antimicrobial peptide on columns of varying diameters (1mm to 9.4mm I.D.). Journal of Chromatography A, 2007, 1140, 112-120.	3.7	43
82	De Novo Designed Amphipathic Î±-Helical Antimicrobial Peptides Incorporating Dab and Dap Residues on the Polar Face To Treat the Gram-Negative Pathogen, <i>Acinetobacter baumannii</i>. Journal of Medicinal Chemistry, 2019, 62, 3354-3366.	6.4	43
83	Are trigger sequences essential in the folding of two-stranded Î±-helical coiled-coils?11Edited by C. R. Matthews. Journal of Molecular Biology, 2001, 306, 539-553.	4.2	42
84	Mixedâ€mode hydrophilic interaction/cationâ€exchange chromatography: Separation of complex mixtures of peptides of varying charge and hydrophobicity. Journal of Separation Science, 2008, 31, 1573-1584.	2.5	42
85	A new chromophoric substrate for penicillopepsin and other fungal aspartic proteinases. Biochemical Journal, 1982, 203, 603-610.	3.7	41
86	Antigenâ€antibody interactions: Elucidation of the epitope and strainâ€specificity of a monoclonal antibody directed against the pilin protein adherence binding domain of Pseudomonas aeruginosa strain K. Protein Science, 1992, 1, 1308-1318.	7.6	41
87	The relative positions of alanine residues in the hydrophobic core control the formation of two-stranded or four-stranded Î±-helical coiled-coils. Protein Engineering, Design and Selection, 1996, 9, 353-363.	2.1	39
88	Temperature profiling of polypeptides in reversed-phase liquid chromatography. Journal of Chromatography A, 2003, 1009, 45-59.	3.7	39
89	Clustering of Large Hydrophobes in the Hydrophobic Core of Two-stranded Î±-Helical Coiled-Coils Controls Protein Folding and Stability. Journal of Biological Chemistry, 2003, 278, 35248-35254.	3.4	39
90	Template-based coiled-coil antigens elicit neutralizing antibodies to the SARS-coronavirus. Journal of Structural Biology, 2006, 155, 176-194.	2.8	38

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91	A Polyalanine-Based Peptide Cannot Form a Stable Transmembrane Î±-Helix in Fully Hydrated Phospholipid Bilayersâ€. Biochemistry, 2001, 40, 12103-12111.	2.5	37
92	Solution Structure of the C-terminal Antiparallel Coiled-coil Domain from Escherichia coli Osmosensor ProP. Journal of Molecular Biology, 2003, 334, 1063-1076.	4.2	37
93	Defining the minimum size of a hydrophobic cluster in two-stranded Â-helical coiled-coils: Effects on protein stability. Protein Science, 2004, 13, 714-726.	7.6	37
94	Peptide Models of the Helical Hydrophobic Transmembrane Segments of Membrane Proteins:Â Interactions of Acetyl-K2-(LA)12-K2-Amide with Phosphatidylethanolamine Bilayer Membranesâ€. Biochemistry, 2001, 40, 474-482.	2.5	36
95	HPLC Analysis and Purification of Peptides. Methods in Molecular Biology, 2007, 386, 3-55.	0.9	36
96	NMR solution structure and flexibility of a peptide antigen representing the receptor binding domain of Pseudomonas aeruginosa. Biochemistry, 1993, 32, 13432-13440.	2.5	35
97	Comparison of reversed-phase liquid chromatography and hydrophilic interaction/cation-exchange chromatography for the separation of amphipathic Î±-helical peptides with l- and d-amino acid substitutions in the hydrophilic face. Journal of Chromatography A, 2003, 1009, 61-71.	3.7	35
98	Computer simulation of high-performance liquid chromatographic separations of peptide and protein digests for development of size-exclusion, ion-exchange and reversed-phase chromatographic methods. Journal of Chromatography A, 1988, 458, 147-167.	3.7	34
99	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.	7.6	34
100	Unique stabilizing interactions identified in the two-stranded Î±-helical coiled-coil: Crystal structure of a cortexillin I/GCN4 hybrid coiled-coil peptide. Protein Science, 2003, 12, 1395-1405.	7.6	33
101	A synthetic peptide mimics troponin I function in the calcium-dependent regulation of muscle contraction. FEBS Letters, 1993, 323, 223-228.	2.8	32
102	Contribution of Translational and Rotational Entropy to the Unfolding of a Dimeric Coiled-Coil. Journal of Physical Chemistry B, 1999, 103, 2270-2278.	2.6	31
103	Animal Protection and Structural Studies of a Consensus Sequence Vaccine Targeting the Receptor Binding Domain of the Type IV Pilus of Pseudomonas aeruginosa. Journal of Molecular Biology, 2007, 374, 426-442.	4.2	31
104	Structureâ€"activity relationships of the antimicrobial peptide gramicidin S and its analogs: Aqueous solubility, self-association, conformation, antimicrobial activity and interaction with model lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1420-1429.	2.6	29
105	Reversed-phase chromatographic method development for peptide separations using the computer simulation program prodigest-lc. Journal of Chromatography A, 1989, 485, 365-382.	3.7	27
106	Multi-column preparative reversed-phase sample displacement chromatography of peptides. Journal of Chromatography A, 1991, 548, 267-280.	3.7	27
107	Bradykinin antagonists and thiazolidinone derivatives as new potential anti-cancer compounds. Bioorganic and Medicinal Chemistry, 2014, 22, 3815-3823.	3.0	27
108	Role of positively charged residues on the polar and nonâ€polar faces of amphipathic Î±â€helical antimicrobial peptides on specificity and selectivity for Gramâ€negative pathogens. Chemical Biology and Drug Design, 2018, 91, 75-92.	3.2	27

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109	Use of synthetic peptides to confirm that the Pseudomonas aeruginosa PAK pilus adhesin and the Candida albicans fimbrial adhesin possess a homologous receptorâ€binding domain. Molecular Microbiology, 1996, 19, 1107-1116.	2.5	25
110	One-step purification of a recombinant protein from a whole cell extract by reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 2006, 1133, 248-253.	3.7	25
111	Identification of a Unique â€œStability Control Regionâ€•that Controls Protein Stability of Tropomyosin: A Two-stranded Î±-Helical Coiled-coil. Journal of Molecular Biology, 2009, 392, 747-762.	4.2	25
112	Reversedâ€phase HPLC of peptides: Assessing column and solvent selectivity on standard, polarâ€embedded and polar endcapped columns. Journal of Separation Science, 2010, 33, 3005-3021.	2.5	25
113	A de Novo Designed Template for Generating Conformation-specific Antibodies That Recognize Î±-Helices in Proteins. Journal of Biological Chemistry, 2002, 277, 23515-23524.	3.4	23
114	Helix Capping Interactions Stabilize the N-Terminus of the Kinesin Neck Coiled-Coil. Journal of Structural Biology, 2002, 137, 220-235.	2.8	23
115	Solution Secondary Structure of a Bacterially Expressed Peptide from the Receptor Binding Domain of<i>Pseudomonas aeruginosa</i>Pili Strain PAK:â€‰ A Heteronuclear Multidimensional NMR Study. Biochemistry, 1997, 36, 12791-12801.	2.5	22
116	A Novel Approach to Reversed-Phase Preparative High-Performance Liquid Chromatography of Peptides. Journal of Liquid Chromatography and Related Technologies, 1988, 11, 1229-1247.	1.0	21
117	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
118	Deuteration of nonexchangeable protons on proteins affects their thermal stability, sideâ€chain dynamics, and hydrophobicity. Protein Science, 2020, 29, 1641-1654.	7.6	21
119	Effect of chain length on coiled-coil stability: Decreasing stability with increasing chain length. Biopolymers, 2004, 76, 378-390.	2.4	20
120	Quantitation of the nearest-neighbour effects of amino acid side-chains that restrict conformational freedom of the polypeptide chain using reversed-phase liquid chromatography of synthetic model peptides with l- and d-amino acid substitutions. Journal of Chromatography A, 2006, 1123, 212-224.	3.7	20
121	Relative stabilities of synthetic peptide homoâ€•and heterodimeric troponinâ€C domains. Protein Science, 1994, 3, 1010-1019.	7.6	19
122	The Role of Unstructured Highly Charged Regions on the Stability and Specificity of Dimerization of Two-Stranded Î±-Helical Coiled-Coils: Analysis of the Neck-Hinge Region of the Kinesin-like Motor Protein Kif3A. Journal of Structural Biology, 2002, 137, 206-219.	2.8	19
123	Structural and functional studies on Troponin I and Troponin C interactions. Journal of Cellular Biochemistry, 2001, 83, 33-46.	2.6	18
124	Positional dependence of the effects of negatively charged Glu side chains on the stability of two-stranded Î±-helical coiled-coils. Journal of Peptide Science, 1997, 3, 209-223.	1.4	17
125	Synthetic peptide vaccine development: measurement of polyclonal antibody affinity and cross-reactivity using a new peptide capture and release system for surface plasmon resonance spectroscopy. Journal of Molecular Recognition, 2004, 17, 540-557.	2.1	17
126	Preparative reversed-phase liquid chromatography of peptides. Journal of Chromatography A, 2002, 972, 87-99.	3.7	16

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127	An improved approach to hydrophilic interaction chromatography of peptides: Salt gradients in the presence of high isocratic acetonitrile concentrations. Journal of Chromatography A, 2013, 1277, 15-25.	3.7	16
128	Two Complementary Approaches for the Controlled Release of Biomolecules Immobilized via Coiled-Coil Interactions: Peptide Core Mutations and Multivalent Presentation. Biomacromolecules, 2017, 18, 965-975.	5.4	16
129	The Measure of Interior Disorder in a Folded Protein and Its Contribution to Stability. Journal of the American Chemical Society, 1999, 121, 8443-8449.	13.7	15
130	Effects of lanthanide binding on the stability of de novo designed Î±â€helical coiledâ€coils. Chemical Biology and Drug Design, 1998, 51, 9-18.	1.1	15
131	Design of peptide standards with the same composition and minimal sequence variation to monitor performance/selectivity of reversed-phase matrices. Journal of Chromatography A, 2012, 1230, 30-40.	3.7	14
132	Stoichiometry of calcium binding to a synthetic heterodimeric troponin-C domain. Biopolymers, 1992, 32, 391-397.	2.4	13
133	ProPâ€ProP and ProPâ€phospholipid interactions determine the subcellular distribution of osmosensing transporter ProP inEscherichia coli. Molecular Microbiology, 2017, 103, 469-482.	2.5	13
134	Conformational differences betweencis andtrans proline isomers of a peptide antigen representing the receptor binding domain ofPseudomonas aeruginosa as studied by1H-nmr. Biopolymers, 1994, 34, 1221-1230.	2.4	12
135	Effect of trifluoroethanol on the solution structure and flexibility of desmopressin: a twoâ€dimensional NMR study. International Journal of Peptide and Protein Research, 1995, 45, 471-481.	0.1	12
136	Interaction of neuroleptic drugs with a synthetic calcium-binding peptide analog of site III of rabbit skeletal troponin C. FEBS Letters, 1983, 154, 60-64.	2.8	11
137	NMR solution structure of the receptor binding domain of <i>Pseudomonas aeruginosa</i> pilin strain P1. Identification of a Î²â€turn. International Journal of Peptide and Protein Research, 1996, 48, 539-552.	0.1	11
138	Research Article: Synthetic Peptide Vaccine Development: Designing Dual Epitopes into a Single Pilin Peptide Immunogen Generates Antibody Crossâ€reactivity between Two Strains of <i>Pseudomonas aeruginosa</i>. Chemical Biology and Drug Design, 2010, 76, 293-304.	3.2	11
139	Platform technology to generate broadly crossâ€reactive antibodies to Î±â€helical epitopes in hemagglutinin proteins from influenza A viruses. Biopolymers, 2016, 106, 144-159.	2.4	10
140	Studies on the regulatory complex of rabbit skeletal muscle: Contributions of troponin subunits and tropomyosin in the presence and absence of Mg2+ to the acto-S1 ATPase activity. The Protein Journal, 1986, 5, 335-354.	1.1	9
141	Critical interactions in the stability control region of tropomyosin. Journal of Structural Biology, 2010, 170, 294-306.	2.8	9
142	Characterization of the biologically important interaction between troponin C and the N-terminal region of troponin I. Journal of Cellular Biochemistry, 2001, 83, 99-110.	2.6	8
143	Transmission of Stability Information through the N-domain of Tropomyosin Is Interrupted by a Stabilizing Mutation (A109L) in the Hydrophobic Core of the Stability Control Region (Residues 97â€"118). Journal of Biological Chemistry, 2014, 289, 4356-4366.	3.4	8
144	Structural cassette mutagenesis in a de novo designed protein: Proof of a novel concept for examining protein folding and stability. , 1998, 47, 101-123.		7

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145	STABLECOIL: An Algorithm Designed to Predict the Location and Relative Stability of Coiled-Coils in Native Protein Sequences. , 2001, , 365-366.		7
146	13Câˆ’13Crotational resonance in a transmembrane peptide: A comparison of the fluid and gel phases. Physical Review E, 1999, 59, 5945-5957.	2.1	5
147	Strategies for Designing Peptide Immunogens To Elicit Î±-Helical Conformation-Specific Antibodies Reactive with Native Proteins. ACS Symposium Series, 2012, , 93-136.	0.5	4
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