

Claudio Toniolo

List of Publications by Year in descending order

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531
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19657
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556
all docs

556
docs citations

556
times ranked

7334
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of peptide conformation by the Thorpe-Ingold effect (C?-tetrasubstitution). Biopolymers, 2001, 60, 396-419.	2.4	630
2	Structures of polypeptides from Î±-amino acids disubstituted at the Î±-carbon. Macromolecules, 1991, 24, 4004-4009.	4.8	416
3	Circular Dichroism Spectrum of a Peptide 310-Helix. Journal of the American Chemical Society, 1996, 118, 2744-2745.	13.7	381
4	Intramolecularly Hydrogen-Bonded Peptide Conformation. Critical Reviews in Biochemistry, 1980, 9, 1-44.	7.5	361
5	Preferred conformations of peptides containing α,β -disubstituted α -amino acids. Biopolymers, 1983, 22, 205-215.	2.4	258
6	Conformation of pleiomers of .alpha.-aminoisobutyric acid. Macromolecules, 1985, 18, 895-902.	4.8	197
7	Linear oligopeptides. 81. Solid-state and solution conformation of homooligo(.alpha.-aminoisobutyric) Tj ETQq1 1 0.784314 rgBT /Overl Society, 1982, 104, 2437-2444.	13.7	191
8	Energy transport in peptide helices. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12749-12754.	7.1	179
9	PREFERRED CONFORMATION OF THE <i>tert</i>-BUTOXYCARBONYLAMINO GROUP IN PEPTIDES. International Journal of Peptide and Protein Research, 1980, 16, 156-172.	0.1	158
10	Dinuclear Zn ²⁺ Complexes of Synthetic Heptapeptides as Artificial Nucleases. Journal of the American Chemical Society, 2001, 123, 3169-3170.	13.7	153
11	Solid-state infrared absorption spectra and chain arrangement in some synthetic homooligopeptides in the intermolecularly hydrogen-bonded pleated-sheet I ² -conformation. Biopolymers, 1977, 16, 219-224.	2.4	148
12	Structure determination of racemic trichogin A IV using centrosymmetric crystals. Nature Structural and Molecular Biology, 1994, 1, 908-914.	8.2	136
13	Synthesis, Chiroptical Properties, and Configurational Assignment of Fulleroproline Derivatives and Peptides. Journal of the American Chemical Society, 1996, 118, 4072-4080.	13.7	136
14	Peptide helices based on Î±-amino acids. Biopolymers, 2006, 84, 3-12.	2.4	136
15	Conformational Characterization of Terminally Blockedl-(Î±Me)Val Homopeptides Using Vibrational and Electronic Circular Dichroism. 310-Helical Stabilization by Peptide~Peptide Interaction. Journal of the American Chemical Society, 1997, 119, 10278-10285.	13.7	134
16	Title is missing!. Die Makromolekulare Chemie, 1976, 177, 1477-1492.	1.1	131
17	Gold Nanoclusters Protected by Conformationally Constrained Peptides. Journal of the American Chemical Society, 2006, 128, 326-336.	13.7	125
18	Conformational analysis of linear peptides: 5. Spectroscopic characterization of Î²-turns in Aib-containing oligopeptides in chloroform. International Journal of Biological Macromolecules, 1984, 6, 179-188.	7.5	124

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19	A Bioactive Fullerene Peptide. Journal of Medicinal Chemistry, 1994, 37, 4558-4562.	6.4	120
20	ESR Characterization of Hexameric, Helical Peptides Using Double TOAC Spin Labeling. Journal of the American Chemical Society, 1996, 118, 7618-7625.	13.7	116
21	Evidence Against the Hopping Mechanism as an Important Electron Transfer Pathway for Conformationally Constrained Oligopeptides. Journal of the American Chemical Society, 2005, 127, 492-493.	13.7	116
22	Circular dichroism studies of isoleucine oligopeptides in solution. Biopolymers, 1971, 10, 1719-1730.	2.4	115
23	Preferred conformation of the terminally blocked (Aib) ₁₀ homo-oligopeptide: A long, regular 310-helix. Biopolymers, 1991, 31, 129-138.	2.4	114
24	Fullerene-based amino acids and peptides. Journal of Peptide Science, 2001, 7, 208-219.	1.4	113
25	TOAC, a nitroxide spin-labeled, achiral C [±] -tetrasubstituted Î±-amino acid, is an excellent tool in material science and biochemistry. , 1998, 47, 153-158.		108
26	The First Water-Soluble 310-Helical Peptides. Chemistry - A European Journal, 2000, 6, 4498-4504.	3.3	105
27	Synthesis and conformational studies of peptides containing TOAC, a spin-labelled C [±] ,Î±-disubstituted glycine. Journal of Peptide Science, 1995, 1, 45-57.	1.4	103
28	Molecular Recognition by a Silica-Bound Fullerene Derivative. Journal of the American Chemical Society, 1997, 119, 7550-7554.	13.7	101
29	Anomalous Distance Dependence of Electron Transfer across Peptide Bridges. Journal of the American Chemical Society, 2003, 125, 2874-2875.	13.7	100
30	Preferred conformation of the benzyloxycarbonyl-Î±-amino group in peptides*. International Journal of Peptide and Protein Research, 1983, 21, 163-181.	0.1	96
31	Folded and extended structures of homooligopeptides from .alpha.,.alpha.-dialkylated glycines. A conformational energy computation and x-ray diffraction study. Journal of the American Chemical Society, 1984, 106, 8146-8152.	13.7	95
32	Conformational Transitions between Enantiomeric 310-Helices. Angewandte Chemie International Edition in English, 1987, 26, 1150-1152.	4.4	94
33	Energy Transport in Peptide Helices: A Comparison between High- and Low-Energy Excitations. Journal of Physical Chemistry B, 2008, 112, 9091-9099.	2.6	92
34	Solvent-Dependent Intramolecular Electron Transfer in a Peptide-Linked [Ru(bpy) ₃] ²⁺ -C ₆₀ Dyad. Journal of the American Chemical Society, 1999, 121, 3446-3452.	13.7	91
35	Peptide Helices as Rigid Molecular Rulers: A Conformational Study of Isotactic Homopeptides from Î±-Methyl-Î±-isopropylglycine, [L-Î±(Me)Val] _n . Chemistry - A European Journal, 1996, 2, 1104-1111.	3.3	88
36	Orientation and immersion depth of a helical lipopeptaibol in membranes using TOAC as an ESR probe. , 1999, 50, 239-253.		86

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37	The longest, regular polypeptide 310 helix at atomic resolution. Journal of Molecular Biology, 1990, 214, 633-635.	4.2	85
38	Distinguishing Helix Conformations in Alanine-Rich Peptides Using the Unnatural Amino Acid TOAC and Electron Spin Resonance. Journal of the American Chemical Society, 1996, 118, 271-272.	13.7	85
39	Discriminating 310- from 7-helices: Vibrational and electronic CD and IR absorption study of related Aib-containing oligopeptides. Biopolymers, 2002, 65, 229-243.	2.4	85
40	Induced Axial Chirality in the Biphenyl Core of the C ₁ -Tetrasubstituted L-Amino Acid Residue Bip and Subsequent Propagation of Chirality in (Bip) _n /Val Oligopeptides. Journal of the American Chemical Society, 2004, 126, 12874-12879.	13.7	85
41	Different mechanisms of action of antimicrobial peptides: insights from fluorescence spectroscopy experiments and molecular dynamics simulations. Journal of Peptide Science, 2009, 15, 550-558.	1.4	85
42	A Bimetallic Helical Heptapeptide as a Transphosphorylation Catalyst in Water. Journal of the American Chemical Society, 1999, 121, 6948-6949.	13.7	84
43	Vibrational circular dichroism of polypeptides, V. A study of 310-helical-octapeptides. Biopolymers, 1986, 25, 79-89.	2.4	83
44	Critical Main-Chain Length for Conformational Conversion From 3 ₁₀ -Helix to L-Helix in Polypeptides. Journal of Biomolecular Structure and Dynamics, 1990, 7, 1321-1331.	3.5	83
45	Trichogin: a paradigm for lipopeptaibols. Journal of Peptide Science, 2003, 9, 679-689.	1.4	83
46	A peptide template as an allosteric supramolecular catalyst for the cleavage of phosphate esters. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5144-5149.	7.1	81
47	Aggregation and Water-Membrane Partition as Major Determinants of the Activity of the Antibiotic Peptide Trichogin GA IV. Biophysical Journal, 2004, 86, 936-945.	0.5	80
48	Synthesis and characterization of the first fullerene-peptide. Journal of Organic Chemistry, 1993, 58, 5578-5580.	3.2	79
49	Solid-state geometry and conformation of linear, diastereoisomeric oligoprolines. Biopolymers, 1983, 22, 305-317.	2.4	77
50	Addition reactions of C60 leading to fulleroprolines. Journal of the Chemical Society Chemical Communications, 1994, , 305.	2.0	77
51	Conformational aspects of polypeptides. XXV. Solvent and temperature effects on the conformations of copolymers of benzyl and methyl-L-aspartate with nitrobenzyl-L-aspartate. Biopolymers, 1968, 6, 1579-1603.	2.4	73
52	Linear oligopeptides. Part 406.1 Helical screw sense of peptide molecules: the pentapeptide system (Aib) ₄ /L-Val[L-(L-Me)Val] in solution. Journal of the Chemical Society Perkin Transactions II, 1998, , 1651-1658.	0.9	73
53	Facile and E-Selective Intramolecular Ring-Closing Metathesis Reactions in 310-Helical Peptides: A 3D Structural Study. Journal of the American Chemical Society, 2007, 129, 6986-6987.	13.7	73
54	Helical screw sense preferences of peptides based on chiral, C ^L -tetrasubstituted L-amino acids. Biopolymers, 2015, 104, 46-64.	2.4	72

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55	Folded and extended structures of homooligopeptides from α,α -dialkylated α -amino acids. An infrared absorption and proton nuclear magnetic resonance study. Journal of the American Chemical Society, 1984, 106, 8152-8156.	13.7	71
56	Conformational studies of proteins with aromatic side-chain effects. Biopolymers, 1968, 6, 1673-1689.	2.4	69
57	You Are Sitting on a Gold Mine!. Synlett, 2006, 2006, 1295-1310.	1.8	69
58	Determining the occurrence of a 3_{10} -helix and an α -helix in two different segments of a lipopeptaibol antibiotic using TOAC, a nitroxide spin-labeled C α -tetrasubstituted α -amino acid. Bioorganic and Medicinal Chemistry, 1999, 7, 119-131.	3.0	68
59	Molecular spacers for physicochemical investigations based on novel helical and extended peptide structures. Biopolymers, 2004, 76, 162-176.	2.4	68
60	Flat Peptides. Journal of the American Chemical Society, 1999, 121, 3272-3278.	13.7	67
61	Different Spectral Signatures of Octapeptide 3_{10} - and α -Helices Revealed by Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 5834-5837.	2.6	67
62	Mechanism of Membrane Activity of the Antibiotic Trichogin GA IV: A Two-State Transition Controlled by Peptide Concentration. Biophysical Journal, 2005, 88, 3411-3421.	0.5	65
63	Two-Dimensional Infrared Spectral Signatures of 3_{10} - and α -Helical Peptides. Journal of Physical Chemistry B, 2007, 111, 3222-3235.	2.6	64
64	Concomitant Occurrence of Peptide 3_{10} - and α -Helices Probed by NMR. Journal of the American Chemical Society, 2000, 122, 11735-11736.	13.7	59
65	Turn and Helical Peptide Handedness Governed Exclusively by Side-Chain Chiral Centers. Journal of the American Chemical Society, 2005, 127, 2036-2037.	13.7	59
66	Conformations of poly(ethylene glycol) bound homooligo-L-alanines and -L-valines in aqueous solution. Journal of the American Chemical Society, 1979, 101, 450-454.	13.7	58
67	The complete chiroptical signature of the peptide 3_{10} -helix in aqueous solution. Biopolymers, 2004, 75, 32-45.	2.4	58
68	Intramolecular, Intermolecular, and Heterogeneous Nonadiabatic Dissociative Electron Transfer to Peresters. Journal of the American Chemical Society, 2001, 123, 9577-9584.	13.7	56
69	Asymmetric enone epoxidation by short solid-phase bound peptides: Further evidence for catalyst helicity and catalytic activity of individual peptide strands. Biopolymers, 2006, 84, 90-96.	2.4	56
70	The Bip Method, Based on the Induced Circular Dichroism of a Flexible Biphenyl Probe in Terminally Protected -Bip-Xaa*-Dipeptides, for Assignment of the Absolute Configuration of α -Amino Acids. Journal of the American Chemical Society, 2008, 130, 5986-5992.	13.7	56
71	Pseudopeptide Foldamers: The Homo-Oligomers of Pyroglutamic Acid. Chemistry - A European Journal, 2002, 8, 2516.	3.3	55
72	Trichogin GA IV: an antibacterial and protease-resistant peptide. Journal of Peptide Science, 2009, 15, 615-619.	1.4	55

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73	Handedness preference and switching of peptide helices. Part II: Helices based on noncoded α -amino acids. <i>Journal of Peptide Science</i> , 2015, 21, 148-177.	1.4	55
74	Structural Flexibility of a Helical Peptide Regulates Vibrational Energy Transport Properties. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15487-15492.	2.6	53
75	TOAC Spin Labels in the Backbone of Alamethicin: EPR Studies in Lipid Membranes. <i>Biophysical Journal</i> , 2007, 92, 473-481.	0.5	52
76	First Step Toward the Quantitative Identification of Peptide 310-Helix Conformation with NMR Spectroscopy: A NMR and X-ray Diffraction Structural Analysis of a Fully-Developed 310-Helical Peptide Standard. <i>Journal of the American Chemical Society</i> , 1998, 120, 4763-4770.	13.7	51
77	The antimicrobial peptide trichogin and its interaction with phospholipid membranes. <i>FEBS Journal</i> , 1999, 266, 1021-1028.	0.2	51
78	Onset of 3 ¹⁰ -Helical Secondary Structure in Aib Oligopeptides Probed by Coherent 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6556-6566.	13.7	51
79	Lipid Chain-Length Dependence for Incorporation of Alamethicin in Membranes: Electron Paramagnetic Resonance Studies on TOAC-Spin Labeled Analogs. <i>Biophysical Journal</i> , 2007, 92, 4002-4011.	0.5	50
80	Vibrational Energy Transport in Peptide Helices after Excitation of C α -D Modes in Leu-d ₁₀ . <i>Journal of Physical Chemistry B</i> , 2009, 113, 13393-13397.	2.6	50
81	Couplings between Peptide Linkages across a 3 ¹⁰ -Helical Hydrogen Bond Revealed by Two-Dimensional Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 2042-2043.	13.7	49
82	Linear and Two-Dimensional Infrared Spectroscopic Study of the Amide I and II Modes in Fully Extended Peptide Chains. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5168-5182.	2.6	49
83	Handedness preference and switching of peptide helices. Part I: Helices based on protein amino acids. <i>Journal of Peptide Science</i> , 2014, 20, 307-322.	1.4	49
84	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1981, 182, 2007-2014.	1.1	48
85	Characterization of β -bend ribbon spiral forming peptides using electronic and vibrational CD. <i>Biopolymers</i> , 1995, 35, 103-111.	2.4	48
86	Nitroxyl Peptides as Catalysts of Enantioselective Oxidations. <i>Chemistry - A European Journal</i> , 2002, 8, 84-93.	3.3	48
87	Peptide β /3 ¹⁰ -Helix Dimorphism in the Crystal State. <i>Journal of the American Chemical Society</i> , 2007, 129, 15471-15473.	13.7	48
88	Synthesis of a proline-rich [60]fullerene peptide with potential biological activity. <i>Tetrahedron</i> , 2004, 60, 2823-2828.	1.9	46
89	Dynamical Transition in a Small Helical Peptide and Its Implication for Vibrational Energy Transport. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13405-13409.	2.6	46
90	Trichogin GA IV: A versatile template for the synthesis of novel peptaibiotics. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1285-1299.	2.8	46

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91	A synthetic hexapeptide designed to resemble a proteinaceous α -loop nest is shown to bind inorganic phosphate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1418-1424.	2.6	46
92	Bioactive and model peptides characterized by the helicogenic (\pm Me)Phe residue. <i>Tetrahedron</i> , 1993, 49, 3641-3653.	1.9	44
93	A Peptide-Tethered Lipid Bilayer on Mercury as a Biomimetic System. <i>Langmuir</i> , 2001, 17, 6585-6592.	3.5	44
94	Conformational aspects of polypeptide structure. XXX. Rotatory properties of cyclic and bicyclic amides. Restricted and rigid model compounds for peptide chromophores. <i>Journal of the American Chemical Society</i> , 1969, 91, 1816-1822.	13.7	43
95	Electron spin resonance and structural analysis of water soluble, alanine-rich peptides incorporating TO AC. <i>Molecular Physics</i> , 1998, 95, 957-966.	1.7	43
96	Multiple, consecutive, fully α -extended 2.0 ⁵ helix peptide conformation. <i>Biopolymers</i> , 2013, 100, 621-636.	2.4	43
97	Selective cleavage of the single tryptophanyl peptide bond in horse heart cytochrome c. <i>FEBS Letters</i> , 1973, 32, 139-142.	2.8	42
98	Geometry and Conformation of the β -Aminoisobutyric Acid Residue in Simple Derivatives and Dipeptides. Four New X-Ray Structural Analyses and a Statistical Analysis from Known Crystal Data. <i>Liebigs Annalen Der Chemie</i> , 1987, 1987, 1055-1060.	0.8	42
99	Solution Structures of TOAC-Labeled Trichogin GA IV Peptides from Allowed ($g \approx 2$) and Half-Field Electron Spin Resonance. <i>Journal of the American Chemical Society</i> , 1999, 121, 6919-6927.	13.7	42
100	Long, Chiral Polypeptide 310-Helices at Atomic Resolution. <i>Journal of Biomolecular Structure and Dynamics</i> , 1988, 5, 803-817.	3.5	41
101	The p-bromobenzamido chromophore as a circular dichroic probe for the assignment of the screw sense of helical peptides. <i>Tetrahedron: Asymmetry</i> , 1994, 5, 507-510.	1.8	41
102	Effect of Peptide Lipidation on Membrane Perturbing Activity: A Comparative Study on Two Trichogin Analogues. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22813-22818.	2.6	41
103	Crystal Structure of a Spin-Labeled, Channel-Forming Alamethicin Analogue. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2047-2050.	13.8	41
104	The State of the Art of Chemical Biology. <i>ChemBioChem</i> , 2009, 10, 16-29.	2.6	41
105	Sensitivity of 2D IR Spectra to Peptide Helicity: A Concerted Experimental and Simulation Study of an Octapeptide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12037-12049.	2.6	41
106	Linear oligopeptides. Part 227. X-Ray crystal and molecular structures of two β -helix-forming (Aib-L-Ala) _n sequential oligopeptides, pBrBz-(Aib-L-Ala) ₅ -OMe and pBrBz-(Aib-L-Ala) ₆ -OMe. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 1829-1837.	0.9	40
107	Conformational Characterization of the 1-Aminocyclobutane-1-carboxylic Acid Residue in Model Peptides. , 1997, 3, 110-122.		40
108	An azacrown-functionalized peptide as a metal ion based catalyst for the cleavage of a RNA-model substrate. <i>Biopolymers</i> , 2000, 55, 496-501.	2.4	40

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109	Insights into the Free-Energy Dependence of Intramolecular Dissociative Electron Transfers. Journal of the American Chemical Society, 2002, 124, 11503-11513.	13.7	40
110	Total synthesis in solution of alamethicin F50/5 by an easily tunable segment condensation approach. Biopolymers, 2004, 76, 485-493.	2.4	40
111	Unraveling Solvent-Driven Equilibria between α - and 3_{10} -Helices through an Integrated Spin Labeling and Computational Approach. Journal of the American Chemical Society, 2007, 129, 11248-11258.	13.7	40
112	Alamethicin Interaction with Lipid Membranes: A Spectroscopic Study on Synthetic Analogues. Chemistry and Biodiversity, 2007, 4, 1299-1312.	2.1	40
113	Phenylalanine oligopeptides. Bioorganic Chemistry, 1974, 3, 125-132.	4.1	39
114	Aspartame dipeptide analogues: effect of number of side-chain methylene group spacers and α -methylation in the second position. Tetrahedron: Asymmetry, 1997, 8, 1305-1314.	1.8	39
115	Solution Structure, Dimerization, and Dynamics of a Lipophilic α /310-Helical, α -Methylated Peptide. Implications for Folding of Membrane Proteins. Journal of the American Chemical Society, 2001, 123, 6678-6686.	13.7	39
116	Role of Secondary Structure in the Asymmetric Acylation Reaction Catalyzed by Peptides Based on Chiral α -Tetrasubstituted α -Amino Acids. Journal of Organic Chemistry, 2004, 69, 3849-3856.	3.2	39
117	Backbone Dynamics of Alamethicin Bound to Lipid Membranes: Spin-Echo Electron Paramagnetic Resonance of TOAC-Spin Labels. Biophysical Journal, 2008, 94, 2698-2705.	0.5	39
118	Alamethicin Topology in Phospholipid Membranes by Oriented Solid-state NMR and EPR Spectroscopies: a Comparison. Journal of Physical Chemistry B, 2009, 113, 3034-3042.	2.6	39
119	Hypersensitive-Like Response to the Pore-Former Peptaibol Alamethicin in <i>Arabidopsis Thaliana</i> . ChemBioChem, 2010, 11, 2042-2049.	2.6	39
120	Synthesis and Self-Assembly of Oligo(<i>p</i> -phenylenevinylene) Peptide Conjugates in Water. Chemistry - A European Journal, 2011, 17, 2044-2047.	3.3	39
121	Linear oligopeptides. XXVII. Contribution to the circular dichroism of internal peptide chromophores. Canadian Journal of Chemistry, 1976, 54, 70-76.	1.1	38
122	Linear oligopeptides. XLIII. Study of the relationship between conformation and nature of side chain: Homologous series derived from β -branched amino acid residues. Biopolymers, 1978, 17, 1713-1727.	2.4	38
123	A Nitroxide Derivative as a Probe for Conformational Studies of Short Linear Peptides in Solution. Spectroscopic and Molecular Mechanics Investigation. Journal of Physical Chemistry B, 1998, 102, 7890-7898.	2.6	38
124	Structural requirements for formyl homooligopeptide chemoattractants. Biochemistry, 1984, 23, 698-704.	2.5	37
125	Synthesis and optical studies of isoleucine oligopeptides in solution. Biopolymers, 1971, 10, 1707-1717.	2.4	36
126	Conformational properties of methionine homo-oligopeptides in solution. Biopolymers, 1974, 13, 2179-2190.	2.4	36

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127	Title is missing!. Die Makromolekulare Chemie, 1979, 180, 1293-1304.	1.1	36
128	Peptoid residues and β -turn formation. Journal of Peptide Science, 2002, 8, 241-252.	1.4	36
129	A Combined Spectroscopic and Theoretical Study of a Series of Conformationally Restricted Hexapeptides Carrying a Rigid Binaphthyl-Nitroxide Donor-Acceptor Pair. Chemistry - A European Journal, 2003, 9, 4084-4093.	3.3	36
130	Electroconductive and photocurrent generation properties of self-assembled monolayers formed by functionalized, conformationally constrained peptides on gold electrodes. Journal of Peptide Science, 2008, 14, 184-191.	1.4	36
131	Is the Backbone Conformation of C ^{α} -Methyl Proline Restricted to a Single Region?. Chemistry - A European Journal, 2009, 15, 8015-8025.	3.3	36
132	Molecular and crystal structures of three monothiated analogues of the terminally blocked ala-aib-ala sequence of peptaibol antibiotics. Biopolymers, 1988, 27, 747-761.	2.4	35
133	Helical screw sense of peptide molecules: The pentapeptide system (Aib) ₄ /L-Val[L-(\pm Me)Val] in the crystal state. , 1998, 46, 433-443.		35
134	Destabilization of the 310-Helix in Peptides Based on C ^{α} -Tetrasubstituted β -Amino Acids by Main-Chain to Side-Chain Hydrogen Bonds. Journal of the American Chemical Society, 1998, 120, 11558-11566.	13.7	34
135	Electron spin resonance of TOAC labeled peptides: Folding transitions and high frequency spectroscopy. Biopolymers, 2000, 55, 479-485.	2.4	34
136	Disruption of the β -sheet structure of a protected pentapeptide, related to the β -amyloid sequence 17-21, induced by a single, helicogenic C ^{α} -tetrasubstituted β -amino acid. Journal of Peptide Science, 2003, 9, 461-466.	1.4	34
137	First homo α -peptides undergoing a reversible 3 ₁₀ -helix/ β -helix transition: Critical main-chain length. Biopolymers, 2008, 90, 567-574.	2.4	34
138	A Rigid Helical Peptide Axle for a [2]Rotaxane Molecular Machine. Angewandte Chemie - International Edition, 2009, 48, 8986-8989.	13.8	34
139	β^2 -Alanine and β^2 -bends. X-Ray diffraction structures of three linear oligopeptides. Journal of the Chemical Society Perkin Transactions II, 1992, , 1233-1237.	0.9	33
140	Electron paramagnetic resonance backbone dynamics studies on spin-labelled neuropeptide Y analogues. Journal of Peptide Science, 2002, 8, 671-682.	1.4	33
141	Self-Assembled Monolayers of Hexapeptides on Gold: A Surface Characterization and Orientation Distribution Analysis. Journal of Physical Chemistry A, 2004, 108, 9673-9681.	2.5	33
142	Self-Aggregation of Spin-Labeled Alamethicin in ePC Vesicles Studied by Pulsed Electron-Electron Double Resonance. Journal of the American Chemical Society, 2007, 129, 9260-9261.	13.7	33
143	Toward Detecting the Formation of a Single Helical Turn by 2D IR Cross Peaks between the Amide-I and -II Modes. Journal of Physical Chemistry B, 2009, 113, 11775-11786.	2.6	33
144	Synthesis, preferred conformation, protease stability, and membrane activity of heptaibin, a medium-length peptaibiotic. Journal of Peptide Science, 2011, 17, 585-594.	1.4	33

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145	Linear oligopeptides. Part 147. Chemical and crystallographic study of the reaction between benzyloxycarbonyl chloride and α -aminoisobutyric acid. Journal of the Chemical Society Perkin Transactions II, 1986, , 1371-1376.	0.9	32
146	Metal Ion Modulation of Membrane Permeability Induced by a Polypeptide Template. Journal of the American Chemical Society, 1996, 118, 2505-2506.	13.7	32
147	Ab Initio Modeling of CW-ESR Spectra of the Double Spin Labeled Peptide Fmoc-(Aib-Aib-TOAC) ₂ -Aib-OMe in Acetonitrile. Journal of Physical Chemistry B, 2007, 111, 2668-2674.	2.6	32
148	Crystallographic characterization of geometry and conformation of TOAC, a nitroxide spin-labelled α -disubstituted glycine, in simple derivatives and model peptides *. International Journal of Peptide and Protein Research, 1996, 47, 231-238.	0.1	32
149	Vibrational Energy Transport through a Capping Layer of Appropriately Designed Peptide Helices over Gold Nanoparticles. Nano Letters, 2010, 10, 3057-3061.	9.1	32
150	Chiral, fully extended helical peptides. Amino Acids, 2011, 41, 629-641.	2.7	32
151	Mimicking Nature: A Novel Peptide-based Bio-inspired Approach for Solar Energy Conversion. ChemPhysChem, 2014, 15, 64-68.	2.1	32
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