

Claudio Toniolo

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#	Paper	IF	Citations
520	Control of peptide conformation by the Thorpe-Ingold effect (C alpha-tetrasubstitution). <i>Biopolymers</i> , 2001 , 60, 396-419	2.2	570
519	Structures of polypeptides from β -amino acids disubstituted at the α -carbon. <i>Macromolecules</i> , 1991 , 24, 4004-4009	5.5	365
518	Circular Dichroism Spectrum of a Peptide 310-Helix. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2744-2745	16.4	344
517	Intramolecularly hydrogen-bonded peptide conformations. <i>Critical Reviews in Biochemistry</i> , 1980 , 9, 1-44		339
516	Preferred conformations of peptides containing β -disubstituted β -amino acids. <i>Biopolymers</i> , 1983 , 22, 205-215	2.2	238
515	Linear oligopeptides. 81. Solid-state and solution conformation of homooligo(α -aminoisobutyric acids) from tripeptide to pentapeptide: evidence for a 310 helix. <i>Journal of the American Chemical Society</i> , 1982 , 104, 2437-2444	16.4	182
514	Conformation of pleionomers of α -aminoisobutyric acid. <i>Macromolecules</i> , 1985 , 18, 895-902	5.5	178
513	Energy transport in peptide helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12749-54	11.5	157
512	Preferred conformation of the tert-butoxycarbonyl-amino group in peptides. <i>International Journal of Peptide and Protein Research</i> , 1980 , 16, 156-72		146
511	Dinuclear Zn(2+) complexes of synthetic heptapeptides as artificial nucleases. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3169-70	16.4	140
510	Solid-state infrared absorption spectra and chain arrangement in some synthetic homooligopeptides in the intermolecularly hydrogen-bonded pleated-sheet beta-conformation. <i>Biopolymers</i> , 1977 , 16, 219-24	2.2	134
509	Conformational Characterization of Terminally Blocked L-(Me)Val Homopeptides Using Vibrational and Electronic Circular Dichroism. 310-Helical Stabilization by Peptide-Peptide Interaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10278-10285	16.4	127
508	Peptide helices based on alpha-amino acids. <i>Biopolymers</i> , 2006 , 84, 3-12	2.2	124
507	Structure determination of racemic trichogin A IV using centrosymmetric crystals. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 908-14	17.6	124
506	Gold nanoclusters protected by conformationally constrained peptides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 326-36	16.4	120
505	Synthesis, Chiroptical Properties, and Configurational Assignment of Fulleroproline Derivatives and Peptides. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4072-4080	16.4	115
504	Conformational analysis of linear peptides: 5. Spectroscopic characterization of β -turns in Aib-containing oligopeptides in chloroform. <i>International Journal of Biological Macromolecules</i> , 1984 , 6, 179-188	7.9	111

503	Evidence against the hopping mechanism as an important electron transfer pathway for conformationally constrained oligopeptides. <i>Journal of the American Chemical Society</i> , 2005 , 127, 492-3	16.4	110
502	Linear oligopeptides, 29. Infrared conformational analysis of homo-oligopeptides in the solid state and in solution. <i>Die Makromolekulare Chemie</i> , 1976 , 177, 1477-1492		110
501	ESR Characterization of Hexameric, Helical Peptides Using Double TOAC Spin Labeling. <i>Journal of the American Chemical Society</i> , 1996 , 118, 7618-7625	16.4	109
500	TOAC, a nitroxide spin-labeled, achiral C-tetrasubstituted amino acid, is an excellent tool in material science and biochemistry 1998 , 47, 153-158		106
499	A bioactive fullerene peptide. <i>Journal of Medicinal Chemistry</i> , 1994 , 37, 4558-62	8.3	106
498	Preferred conformation of the terminally blocked (Aib) ₁₀ homo-oligopeptide: A long, regular 310-helix. <i>Biopolymers</i> , 1991 , 31, 129-138	2.2	106
497	Fullerene-based amino acids and peptides. <i>Journal of Peptide Science</i> , 2001 , 7, 208-19	2.1	105
496	Synthesis and conformational studies of peptides containing TOAC, a spin-labelled C alpha, alpha-disubstituted glycine. <i>Journal of Peptide Science</i> , 1995 , 1, 45-57	2.1	99
495	Circular dichroism studies of isoleucine oligopeptides in solution. <i>Biopolymers</i> , 1971 , 10, 1719-30	2.2	99
494	Anomalous distance dependence of electron transfer across peptide bridges. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2874-5	16.4	97
493	The first water-soluble 3(10)-helical peptides. <i>Chemistry - A European Journal</i> , 2000 , 6, 4498-504	4.8	97
492	Energy transport in peptide helices: a comparison between high- and low-energy excitations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9091-9	3.4	88
491	Folded and extended structures of homooligopeptides from .alpha.,.alpha.-dialkylated glycines. A conformational energy computation and x-ray diffraction study. <i>Journal of the American Chemical Society</i> , 1984 , 106, 8146-8152	16.4	87
490	Preferred conformation of the benzyloxycarbonyl-amino group in peptides. <i>International Journal of Peptide and Protein Research</i> , 1983 , 21, 163-81		86
489	Conformational Transitions between Enantiomeric 310-Helices. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 1150-1152		86
488	Peptide Helices as Rigid Molecular Rulers: A Conformational Study of Isotactic Homopeptides from N-Methyl-Iso-propylglycine, [L-(Me)Val] _n . <i>Chemistry - A European Journal</i> , 1996 , 2, 1104-1111	4.8	82
487	Discriminating 3(10)- from alpha-helices: vibrational and electronic CD and IR absorption study of related Aib-containing oligopeptides. <i>Biopolymers</i> , 2002 , 65, 229-43	2.2	80
486	The longest, regular polypeptide 3(10) helix at atomic resolution. <i>Journal of Molecular Biology</i> , 1990 , 214, 633-5	6.5	80

- 485 Molecular Recognition by a Silica-Bound Fullerene Derivative. *Journal of the American Chemical Society*, **1997**, 119, 7550-7554 16.4 79
- 484 Induced axial chirality in the biphenyl core of the C α -tetrasubstituted α -amino acid residue Bip and subsequent propagation of chirality in (Bip) $_n$ /Val oligopeptides. *Journal of the American Chemical Society*, **2004**, 126, 12874-9 16.4 79
- 483 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 16.4 79
- 482 Vibrational circular dichroism of polypeptides, V. A study of 3(10)-helical-octapeptides. *Biopolymers*, **1986**, 25, 79-89 2.2 79
- 481 Trichogin: a paradigm for lipopeptaibols. *Journal of Peptide Science*, **2003**, 9, 679-89 2.1 78
- 480 Orientation and immersion depth of a helical lipopeptaibol in membranes using TOAC as an ESR probe. *Biopolymers*, **1999**, 50, 239-53 2.2 78
- 479 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 16.4 77
- 478 Critical Main-Chain Length for Conformational Conversion From 3(10)-Helix to β -Helix in Polypeptides. *Journal of Biomolecular Structure and Dynamics*, **1990**, 7, 1321-1331 3.6 77
- 477 Aggregation and water-membrane partition as major determinants of the activity of the antibiotic peptide trichogin GA IV. *Biophysical Journal*, **2004**, 86, 936-45 2.9 75
- 476 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, 5144-9 11.5 74
- 475 A Bimetallic Helical Heptapeptide as a Transphosphorylation Catalyst in Water. *Journal of the American Chemical Society*, **1999**, 121, 6948-6949 16.4 74
- 474 Addition reactions of C $_60$ leading to fulleroprolines. *Journal of the Chemical Society Chemical Communications*, **1994**, 305 73
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- 472 Linear oligopeptides. Part 406.1 Helical screw sense of peptide molecules: the pentapeptide system (Aib) $_4$ /L-Val[L-(Me)Val] in solution. *Journal of the Chemical Society Perkin Transactions II*, **1998**, 1651-1658 72
- 471 Facile and E-selective intramolecular ring-closing metathesis reactions in 3(10)-helical peptides: a 3D structural study. *Journal of the American Chemical Society*, **2007**, 129, 6986-7 16.4 71
- 470 Solid-state geometry and conformation of linear, diastereoisomeric oligoprolines. *Biopolymers*, **1983**, 22, 305-317 2.2 71
- 469 Molecular spacers for physicochemical investigations based on novel helical and extended peptide structures. *Biopolymers*, **2004**, 76, 162-76 2.2 65
- 468 Different spectral signatures of octapeptide 3(10)- and α -helices revealed by two-dimensional infrared spectroscopy. *Journal of Physical Chemistry B*, **2006**, 110, 5834-7 3.4 64

467	Determining the occurrence of a 3(10)-helix and an alpha-helix in two different segments of a lipopeptaibol antibiotic using TOAC, a nitroxide spin-labeled C(alpha)-tetrasubstituted alpha-amino acid. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 119-31	3.4	64
466	Conformational aspects of polypeptides. XXV. Solvent and temperature effects on the conformations of copolymers of benzyl and methyl L-aspartate with nitrobenzyl L-aspartate. <i>Biopolymers</i> , 1968 , 6, 1579-603	2.2	64
465	Folded and extended structures of homooligopeptides from .alpha.,.alpha.-dialkylated .alpha.-amino acids. An infrared absorption and proton nuclear magnetic resonance study. <i>Journal of the American Chemical Society</i> , 1984 , 106, 8152-8156	16.4	63
464	Conformational studies of proteins with aromatic side-chain effects. <i>Biopolymers</i> , 1968 , 6, 1673-89	2.2	62
463	Helical screw-sense preferences of peptides based on chiral, C α -tetrasubstituted β -amino acids. <i>Biopolymers</i> , 2015 , 104, 46-64	2.2	61
462	Mechanism of membrane activity of the antibiotic trichogin GA IV: a two-state transition controlled by peptide concentration. <i>Biophysical Journal</i> , 2005 , 88, 3411-21	2.9	60
461	Synthesis and characterization of the first fullerene-peptide. <i>Journal of Organic Chemistry</i> , 1993 , 58, 5578-5580	2.6	60
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459	You Are Sitting on a Gold Mine!. <i>Synlett</i> , 2006 , 2006, 1295-1310	2.2	59
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456	The complete chiro-spectroscopic signature of the peptide 3(10)-helix in aqueous solution. <i>Biopolymers</i> , 2004 , 75, 32-45	2.2	55
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454	Concomitant Occurrence of Peptide 3(10)- and β -Helices Probed by NMR. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11735-11736	16.4	53
453	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 beta-amino acids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5986-92	16.4	51
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451	Structural flexibility of a helical peptide regulates vibrational energy transport properties. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15487-92	3.4	50
450	Intramolecular, intermolecular, and heterogeneous nonadiabatic dissociative electron transfer to peresters. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9577-84	16.4	50

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447	Vibrational energy transport in peptide helices after excitation of C-D modes in Leu-d10. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13393-7	3.4	48
446	Trichogin GA IV: an antibacterial and protease-resistant peptide. <i>Journal of Peptide Science</i> , 2009 , 15, 615-9	2.1	46
445	Peptide alpha/3(10)-helix dimorphism in the crystal state. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15471-3	16.4	46
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442	Characterization of beta-bend ribbon spiral forming peptides using electronic and vibrational CD. <i>Biopolymers</i> , 1995 , 35, 103-11	2.2	46
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440	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, 5168-82	3.4	45
439	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, 2042-3	16.4	45
438	Linear oligopeptides, 78. The effect of the insertion of the proline residue on the solution conformation of host peptides. <i>Die Makromolekulare Chemie</i> , 1981 , 182, 2007-2014		45
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435	Handedness preference and switching of peptide helices. Part II: Helices based on noncoded amino acids. <i>Journal of Peptide Science</i> , 2015 , 21, 148-77	2.1	43
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428	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, 12037-49	3.4	39
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425	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, 1816-22	16.4	39
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- 403 Aspartame dipeptide analogues: effect of number of side-chain methylene group spacers and C β methylation in the second position. *Tetrahedron: Asymmetry*, **1997**, 8, 1305-1314 35
- 402 Conformational Characterization of the 1-Aminocyclobutane-1-carboxylic Acid Residue in Model Peptides **1997**, 3, 110-122 34
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394	Self-aggregation of spin-labeled alamethicin in ePC vesicles studied by pulsed electron - electron double resonance. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9260-1	16.4	32
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375	Alanine and bends. X-Ray diffraction structures of three linear oligopeptides. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992 , 1233-1237		30
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373	Vibrational energy transport through a capping layer of appropriately designed peptide helices over gold nanoparticles. <i>Nano Letters</i> , 2010 , 10, 3057-61	11.5	29
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