

Petr Malon

List of Publications by Year in descending order

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70
papers

1,231
citations

471509

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414414

32
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73
all docs

73
docs citations

73
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfer of molecular property tensors in cartesian coordinates: A new algorithm for simulation of vibrational spectra. <i>Journal of Computational Chemistry</i> , 1997, 18, 646-659.	3.3	224
2	Impact of HIV infection on tuberculosis. <i>Postgraduate Medical Journal</i> , 2000, 76, 259-268.	1.8	112
3	A Solution to the Artifact Problem in Fourier Transform Vibrational Circular Dichroism. <i>Applied Spectroscopy</i> , 1988, 42, 32-38.	2.2	57
4	Coiled Coil Peptides as Universal Linkers for the Attachment of Recombinant Proteins to Polymer Therapeutics. <i>Biomacromolecules</i> , 2011, 12, 3645-3655.	5.4	48
5	Lucifensin, a Novel Insect Defensin of Medicinal Maggots: Synthesis and Structural Study. <i>ChemBioChem</i> , 2011, 12, 1352-1361.	2.6	45
6	Conformation of the Dipeptide Cyclo(L-Pro-L-Pro) Monitored by the Nuclear Magnetic Resonance and Raman Optical Activity Spectra. Experimental and ab Initio Computational Study. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7321-7327.	2.5	44
7	Vibrational CD of polypeptides. XII. Reevaluation of the fourier transform vibrational CD of poly(α -benzyl-L-glutamate). <i>Biopolymers</i> , 1988, 27, 733-746.	2.4	37
8	Spectroscopic properties of the nonplanar amide group: A computational study. <i>Chirality</i> , 2007, 19, 775-786.	2.6	37
9	An Alternative Approach to Chiral 2-[1'-(Diphenylphosphanyl)ferrocenyl]-4,5-dihydrooxazoles. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 588-604.	1.0	31
10	Comparison of Vibrational Circular Dichroism Instruments: Development of a New Dispersive VCD. <i>Applied Spectroscopy</i> , 2009, 63, 775-785.	2.2	31
11	Synthesis and Properties of (Δ)- and (+)-4-MeS-3-C ₂ H ₅ -1,2,3-C ₂ CoB ₉ H ₁₀ . <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 1087-1092.	1.0	28
12	Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives. <i>Journal of Chromatography A</i> , 1992, 626, 197-206.	3.7	26
13	Models of pigment-protein interactions in photosynthetic systems: Tetraphenylporphyrin complexes with polycationic sequential polypeptides. Absorption, circular dichroism and fluorescence properties. <i>Chemical Physics</i> , 1990, 147, 401-413.	1.9	25
14	Spinning Quarter-Wave Plate Polarization Modulator: Test of Feasibility for Vibrational Circular Dichroism Measurements. <i>Applied Spectroscopy</i> , 1996, 50, 669-674.	2.2	23
15	Thermostability of multidomain proteins: Elongation factors EF-Tu from <i>Escherichia coli</i> and <i>Bacillus stearothermophilus</i> and their chimeric forms. <i>Protein Science</i> , 2004, 13, 89-99.	7.6	23
16	Raman Optical Activity of the Central Part of Hinge Peptide. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 403-409.	1.0	21
17	The precursor of secreted aspartic proteinase Sapp1p from <i>Candida parapsilosis</i> can be activated both autocatalytically and by a membrane-bound processing proteinase. <i>Biological Chemistry</i> , 2005, 386, 791-9.	2.5	19
18	Lasiocepsin, a novel cyclic antimicrobial peptide from the venom of eusocial bee <i>Lasioglossum laticeps</i> (Hymenoptera: Halictidae). <i>Amino Acids</i> , 2012, 43, 751-761.	2.7	19

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19	Theoretical simulation of a polarization modulator based on mechanical rotation of a polarizing element. <i>Applied Optics</i> , 1997, 36, 6141.	2.1	18
20	Disulfide chromophore and its optical activity. <i>Chirality</i> , 2010, 22, E47-55.	2.6	17
21	Vibrational circular dichroism study of (2S,3S)-dideuteriobutyrolactone. Synthesis, normal mode analysis, and comparison of experimental and calculated spectra. <i>The Journal of Physical Chemistry</i> , 1992, 96, 10139-10149.	2.9	16
22	Axially Chiral 3,3'-Bi(1-benzothiophene)-2,2'-dicarboxylic Acid and Its Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1020-1038.	1.0	16
23	Vibrational and electronic optical activity of the chiral disulphide group: Implications for disulphide bridge conformation. <i>Chirality</i> , 2010, 22, 514-526.	2.6	15
24	Raman optical activity of the hinge peptide. <i>Vibrational Spectroscopy</i> , 2006, 42, 88-92.	2.2	14
25	Axially chiral bis($\hat{\pm}$ -amino acid)s and dioxopiperazines. Synthesis and configurational assignment. <i>Tetrahedron</i> , 1999, 55, 12331-12348.	1.9	13
26	Relative intensity correction of Raman optical activity spectra facilitates extending the spectral region. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 603-609.	2.5	13
27	Semiempirical calculation of optical rotatory strength of non-planar conformations of formamide. <i>Collection of Czechoslovak Chemical Communications</i> , 1978, 43, 781-790.	1.0	13
28	Alkaloids and phenolics of three <i>Merendera</i> species. <i>Phytochemistry</i> , 1989, 28, 3217-3219.	2.9	12
29	Interaction of Halictine-Related Antimicrobial Peptides with Membrane Models. <i>International Journal of Molecular Sciences</i> , 2019, 20, 631.	4.1	12
30	Crystal structure and chiroptical properties of (+)-(3S)-4-azatricyclo[4,3,1,0 _{3,7}]decan-5-one. <i>Collection of Czechoslovak Chemical Communications</i> , 1978, 43, 3241-3251.	1.0	12
31	Stereoisomeric chiral 2,9-diazabicyclo[4.4.0.]decane-3,10-diones as models of dipeptide grouping: Synthesis, X-ray, IR, NMR and cd studies. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 712-742.	1.0	11
32	Optically active tricyclic dilactams with non-planar cis-amide groups: Synthesis, X-ray, NMR and CD studies. <i>Collection of Czechoslovak Chemical Communications</i> , 1982, 47, 1000-1019.	1.0	11
33	Synthesis and chiroptical properties of (-)-(1R)-3-azatricyclo[5,4,0,0 _{4,9}]undecan-2-one - A lactam with non-planar cis-amide group. <i>Collection of Czechoslovak Chemical Communications</i> , 1979, 44, 2653-2659.	1.0	10
34	Analogues of neurohypophysial hormones, containing tert-leucine: Synthesis and properties. <i>Collection of Czechoslovak Chemical Communications</i> , 1982, 47, 689-701.	1.0	10
35	Synthetic utilization of $\hat{\pm}$ -amino- $\hat{1}^3$ -bromobutyric acid in the preparation of non-coded amino acids; IR study of homoserine. <i>Collection of Czechoslovak Chemical Communications</i> , 1981, 46, 2935-2946.	1.0	9
36	Electronic and vibrational optical activity of several peptides related to neurohypophyseal hormones: Disulfide group conformation. <i>Biopolymers</i> , 2012, 97, 923-932.	2.4	9

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37	Non-planar conformations of methylacetamide: Solvent effect and chiroptical properties. Collection of Czechoslovak Chemical Communications, 1982, 47, 17-28.	1.0	9
38	Synthesis and chiroptical properties of heterodetic cyclic hexapeptides related to oxytocin ring moiety. Collection of Czechoslovak Chemical Communications, 1980, 45, 1109-1131.	1.0	8
39	Chiroptical properties and conformation of N-acetyl-L-amino acids N'-methylamides with aliphatic side chains. Collection of Czechoslovak Chemical Communications, 1983, 48, 2844-2861.	1.0	8
40	(1S,7S)-7-Methyl-6,9-diazatricyclo[6,3,0,01,6]tridecane-5,10-dione, a tricyclic spirodilactam containing non-planar amide groups: Synthesis, NMR, crystal structure, absolute configuration, electronic and vibrational circular dichroism. Collection of Czechoslovak Chemical Communications, 1988, 53, 2447-2472.	1.0	7
41	Synthesis and characterization of cyclic peptides with hydrolytic activity. Tetrahedron Letters, 1991, 32, 5337-5340.	1.4	7
42	Resolution of DL-2-aminosuberic acid via protease-catalyzed ester hydrolysis. Amino Acids, 1998, 15, 389-392.	2.7	7
43	Extraction and DFT study on the complexation of H ₃ O ⁺ with hexaethyl p-tert-butylcalix[6]arene hexaacetate. Journal of Molecular Structure, 2007, 846, 157-160.	3.6	7
44	Antimicrobial Peptide from the Eusocial Bee <i>Halictus sexcinctus</i> Interacting with Model Membranes. Spectroscopy, 2012, 27, 497-502.	0.8	7
45	Nonplanar Tertiary Amides in Rigid Chiral Tricyclic Dilactams. Peptide Group Distortions and Vibrational Optical Activity. Journal of Physical Chemistry B, 2013, 117, 9626-9642.	2.6	7
46	Synthesis and properties of the N [±] -glycyl-glycyl-glycyl-8-lysine-vasopressin and its des-glycinamide derivative. Collection of Czechoslovak Chemical Communications, 1978, 43, 1285-1299.	1.0	7
47	(3R)-5-Azatricyclo[4.3.1.03,8]decan-4-one, a lactam with a non-planar cis-amide group: Synthesis, geometry and chiroptical properties. Collection of Czechoslovak Chemical Communications, 1984, 49, 834-839.	1.0	7
48	Synthesis of optically active 1-(2-furyl)-3-pentanol. A simple route to (2S, 5R/S)-chalcogran. Collection of Czechoslovak Chemical Communications, 1990, 55, 1234-1242.	1.0	6
49	Interaction of Lysine-Alanine-Alanine tripeptide with a fragment of DNA: An empirical potential study. Journal of Computational Chemistry, 1991, 12, 9-16.	3.3	6
50	Vibrational circular dichroism study of [3R,4R]-dideuteriocyclobutane-1,2-dione. Preliminary comparison of experiment and calculations. Chemical Physics Letters, 1991, 179, 282-290.	2.6	5
51	Molecular geometries - Accuracy test of the PCILO method. Collection of Czechoslovak Chemical Communications, 1980, 45, 321-329.	1.0	5
52	Circular Dichroism and Conformation of Oostatic Peptides: The Carrier-Like Role of C-Terminal Oligoproline Sequence. Collection of Czechoslovak Chemical Communications, 2003, 68, 1309-1318.	1.0	5
53	Determination of quality of pyridoxal-5-phosphate enzyme preparations by spectroscopic methods. Journal of Pharmaceutical and Biomedical Analysis, 2005, 37, 1173-1177.	2.8	4
54	Synthesis of protected peptides from the human IgG1 hinge region on PEG support using disulfide bond synthons and alkaline or enzymatic detachment. Tetrahedron Letters, 2006, 47, 1023-1025.	1.4	4

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55	Electronic Circular Dichroism of the Chiral Rigid Tricyclic Dilactam with Nonplanar Tertiary Amide Groups. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11100-11108.	2.6	4
56	Synthesis of C ₂ -Symmetrical [1,1'-Binaphthalene]-2,2'-diamines with Additional Chelating Groups Attached to the Nitrogen Atoms as Potential Ligands for Asymmetric Catalysis. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 539-548.	1.0	3
57	Circular Dichroism Spectroscopy. , 0, , 265-304.		3
58	Three cyclohexapeptides modelling the oxytocin ring moiety: Synthesis and circular dichroism. <i>Collection of Czechoslovak Chemical Communications</i> , 1987, 52, 1841-1856.	1.0	3
59	Circular Dichroic Spectra and Ionization Processes of Some Tropolonic Alkaloids. <i>Heterocycles</i> , 1987, 25, 89.	0.7	3
60	4-Phenylalanine analogues of vasopressin: Synthesis, pharmacological and chiroptical properties. <i>Collection of Czechoslovak Chemical Communications</i> , 1986, 51, 1532-1541.	1.0	2
61	Structures of tert-butyl N-benzoyl-N-phenylcarbamate and tert-butyl N-acetyl-N-phenylcarbamate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1990, 46, 683-686.	0.4	2
62	The peptides of Î± -aminosuberic acid II. Synthesis of deamino-dicarba-eel-calcitonin sequence 1-9. <i>Amino Acids</i> , 2001, 21, 255-263.	2.7	2
63	Fourier transform vibrational circular dichroism and the artifact problem. <i>Mikrochimica Acta</i> , 1988, 95, 279-281.	5.0	1
64	The peptides of Î± -aminosuberic acid I New intermediates for synthetic studies. <i>Amino Acids</i> , 2000, 18, 219-227.	2.7	1
65	Chiroptical Properties and Conformation of Four Lasiocepsin-Related Antimicrobial Peptides: Structural Role of Disulfide Bridges. <i>Symmetry</i> , 2020, 12, 812.	2.2	1
66	Congenital megaprepuce: an emerging condition - how to recognize and treat it. <i>BJU International</i> , 2001, 87, 415-416.	2.5	1
67	Linear Heptapeptides Containing DNA-Intercalators. Synthesis and Interaction with DNA. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1419-1432.	1.0	1
68	Fmoc deprotection by tert-butylamine and its comparison in solution and solid phase synthesis. , 2011, , .		1
69	Sterically Crowded Heterocycles. XIII. An Insight Into the Absolute Stereochemistry of Atropisomeric (Z)-3-(Imidazo[1,2-a]pyridin-3-yl)prop-2-en-1-ones. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 1643-1652.	1.0	0
70	Axially Chiral 3,3â€²-Bi(1-benzothiophene)-2,2â€²-dicarboxylic Acid and Its Derivatives.. <i>ChemInform</i> , 2003, 34, no.	0.0	0