

Marie Urbanov

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90
papers

1,979
citations

26
h-index

39
g-index

91
ext. papers

2,106
ext. citations

3.2
avg, IF

4.41
L-index

#	Paper	IF	Citations
90	Determination of the absolute configurations of natural products via density functional theory calculations of vibrational circular dichroism, electronic circular dichroism and optical rotation: the schizozygane alkaloid schizozygine. <i>Journal of Organic Chemistry</i> , 2007 , 72, 2508-24	4.2	87
89	Comparison of and limits of accuracy for statistical analyses of vibrational and electronic circular dichroism spectra in terms of correlations to and predictions of protein secondary structure. <i>Protein Science</i> , 1995 , 4, 1384-401	6.3	82
88	Vibrational Circular Dichroism of 1,1-Binaphthyl Derivatives: Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8931-8938	2.8	80
87	Measurements of concentration dependence and enantiomeric purity of terpene solutions as a test of a new commercial VCD spectrometer. <i>Chirality</i> , 2000 , 12, 199-203	2.1	73
86	Determining the absolute configuration of two marine compounds using vibrational chiroptical spectroscopy. <i>Journal of Organic Chemistry</i> , 2012 , 77, 858-69	4.2	61
85	Determination of the absolute configurations of natural products via density functional theory calculations of vibrational circular dichroism, electronic circular dichroism, and optical rotation: the iso-schizozygane alkaloids isoschizogaline and isoschizogamine. <i>Chirality</i> , 2008 , 20, 454-70	2.1	60
84	Investigation of guanosine-quartet assemblies by vibrational and electronic circular dichroism spectroscopy, a novel approach for studying supramolecular entities. <i>Chemistry - A European Journal</i> , 2006 , 12, 8735-43	4.8	55
83	Antibacterial C-geranylflavonoids from <i>Paulownia tomentosa</i> Fruits. <i>Journal of Natural Products</i> , 2008 , 71, 706-9	4.9	54
82	Cytotoxic activities of several geranyl-substituted flavanones. <i>Journal of Natural Products</i> , 2010 , 73, 568-73	4.9	52
81	Vibrational circular dichroism of tetraphenylporphyrin in peptide complexes? A computational study. <i>Chirality</i> , 2000 , 12, 191-8	2.1	49
80	Comparison of alpha-lactalbumin and lysozyme using vibrational circular dichroism. Evidence for a difference in crystal and solution structures. <i>Biochemistry</i> , 1991 , 30, 10479-85	3.2	49
79	Determination of absolute configuration and conformation of a cyclic dipeptide by NMR and chiral spectroscopic methods. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1721-36	2.8	47
78	The location of the high- and low-affinity bilirubin-binding sites on serum albumin: ligand-competition analysis investigated by circular dichroism. <i>Biophysical Chemistry</i> , 2013 , 180-181, 55-65	3.5	46
77	Noncovalent interactions of peptides with porphyrins in aqueous solution: conformational study using vibrational CD spectroscopy. <i>Biopolymers</i> , 2001 , 60, 307-16	2.2	44
76	Molecular structure of guanine-quartet supramolecular assemblies in a gel-state based on a DFT calculation of infrared and vibrational circular dichroism spectra. <i>Langmuir</i> , 2008 , 24, 7520-7	4	39
75	Functional helquats: helical cationic dyes with marked, switchable chiroptical properties in the visible region. <i>Chemical Communications</i> , 2015 , 51, 1583-6	5.8	37
74	Minor C-geranylated flavanones from <i>Paulownia tomentosa</i> fruits with MRSA antibacterial activity. <i>Phytochemistry</i> , 2013 , 89, 104-13	4	36

73	[6]Saddlequat: a [6]helquat captured on its racemization pathway. <i>Chemical Science</i> , 2011 , 2, 2314-2320	9.4	35
72	Empirical studies of protein secondary structure by vibrational circular dichroism and related techniques. Alpha-lactalbumin and lysozyme as examples. <i>Faraday Discussions</i> , 1994 , 263-85; discussion 311-26	3.6	35
71	(3R,4S)-4-(4-Fluorophenyl)-3-hydroxymethyl-1-methylpiperidine: conformation and structure monitoring by vibrational circular dichroism. <i>Journal of Organic Chemistry</i> , 2002 , 67, 161-8	4.2	34
70	Resolution of a configurationally stable [5]helquat: enantiocomposition analysis of a helicene congener by capillary electrophoresis. <i>New Journal of Chemistry</i> , 2010 , 34, 1063	3.6	33
69	Spectroscopic study of the temperature-dependent conformation of glucoamylase. <i>BBA - Proteins and Proteomics</i> , 1993 , 1203, 290-4		32
68	Vibrational and electronic circular dichroism study of bile pigments: complexes of bilirubin and biliverdin with metals. <i>Analytical Biochemistry</i> , 2009 , 392, 28-36	3.1	29
67	Evaluation of cytotoxic activity of Schisandra chinensis lignans. <i>Planta Medica</i> , 2010 , 76, 1672-7	3.1	27
66	New insight into the role of a base in the mechanism of imine transfer hydrogenation on a Ru(II) half-sandwich complex. <i>Dalton Transactions</i> , 2013 , 42, 5174-82	4.3	26
65	Tröger's base scaffold in racemic and chiral fashion as a spacer for bisdistamycin formation. Synthesis and DNA binding study. <i>Tetrahedron</i> , 2006 , 62, 8591-8600	2.4	26
64	Insight into the structural and biological relevance of the T/R transition of the N-terminus of the B-chain in human insulin. <i>Biochemistry</i> , 2014 , 53, 3392-402	3.2	25
63	Bioinspired interactions studied by vibrational circular dichroism. <i>Chirality</i> , 2009 , 21 Suppl 1, E215-30	2.1	25
62	Sol-gel phase transition of brucine-appended porphyrin gelator: a study by vibrational circular dichroism spectroscopy. <i>Tetrahedron: Asymmetry</i> , 2002 , 13, 2661-2666		25
61	New chiral porphyrin-brucine gelator characterized by methods of circular dichroism. <i>Tetrahedron</i> , 2005 , 61, 5499-5506	2.4	25
60	Absolute configuration of a cyclic dipeptide reflected in vibrational optical activity: ab initio and experimental investigation. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2554-63	2.8	24
59	Stereoselective bile pigment binding to polypeptides and albumins: a circular dichroism study. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 1355-65	4.4	23
58	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	2.3	23
57	Isoquinoline Alkaloids from <i>Fumaria officinalis</i> L. and Their Biological Activities Related to Alzheimer's Disease. <i>Chemistry and Biodiversity</i> , 2016 , 13, 91-9	2.5	23
56	Vibrational and electronic circular dichroism and absorption spectral study of the DNA β ,10,15,20-tetrakis(1-methylpyridinium-4-yl)porphyrin interaction. <i>Journal of Molecular Structure</i> , 2005 , 748, 17-25	3.4	22

55	CH Stretching Region: Computational Modeling of Vibrational Optical Activity. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3096-108	6.4	21
54	The Biological Effects of Bilirubin Photoisomers. <i>PLoS ONE</i> , 2016 , 11, e0148126	3.7	21
53	Synthesis and chiroptical properties of enantiopure tricyclo[4.3.0.03,8]nonane-4,5-dione (twistbrendanedione). <i>Tetrahedron: Asymmetry</i> , 2002 , 13, 633-638		20
52	Interactions of cyclodextrins with aromatic compounds studied by vibrational circular dichroism spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002 , 58, 2983-9	4.4	20
51	Raman Optical Activity of the Central Part of Hinge Peptide. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 403-409		20
50	Formation and temperature stability of G-quadruplex structures studied by electronic and vibrational circular dichroism spectroscopy combined with ab initio calculations. <i>Biopolymers</i> , 2008 , 89, 144-52	2.2	19
49	Vibrational circular dichroism study of polypeptide model-membrane systems. <i>Analytical Biochemistry</i> , 2012 , 427, 211-8	3.1	18
48	Bile pigment complexes with cyclodextrins: electronic and vibrational circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 2061-2068		18
47	Chiral recognition of bilirubin and biliverdin in liposomes and micelles. <i>Biophysical Chemistry</i> , 2015 , 205, 41-50	3.5	17
46	Circular dichroism study of the interaction between mutagens and bilirubin bound to different binding sites of serum albumins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 126, 68-75	4.4	17
45	Vibrational and electronic circular dichroism study of the interactions of cationic porphyrins with (dG-dC) ₁₀ and (dA-dT) ₁₀ . <i>Biopolymers</i> , 2007 , 85, 349-58	2.2	17
44	Conformational study of melectin and antapin antimicrobial peptides in model membrane environments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 170, 247-55	4.4	16
43	Chiroptical properties of bilirubin-serum albumin binding sites. <i>Chirality</i> , 2013 , 25, 257-63	2.1	16
42	Determination of molecular structure of bisphenylene homologues of BINOL-based phosphoramidites by chiroptical methods. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10717-25	2.8	16
41	Product of alaptide synthesis: determination of the absolute configuration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 958-61	3.5	16
40	Mutual structural effect of bilirubin and model membranes by vibrational circular dichroism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 831-41	3.8	15
39	The complexation of metal cations by D-galacturonic acid: a spectroscopic study. <i>Carbohydrate Research</i> , 2004 , 339, 2391-405	2.9	15
38	Comparison of the electronic and vibrational optical activity of a europium(III) complex. <i>Chemistry - A European Journal</i> , 2015 , 21, 5807-13	4.8	14

37	Circular dichroism spectroscopic study of non-covalent interactions of poly-L-glutamic acid with a porphyrin derivative in aqueous solutions. <i>Journal of Peptide Science</i> , 2005 , 11, 536-45	2.1	13
36	Bilirubin, model membranes and serum albumin interaction: The influence of fatty acids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 1331-40	3.8	11
35	Supramolecular arrangement of guanosine/5-guanosine monophosphate binary mixtures studied by methods of circular dichroism. <i>Chirality</i> , 2012 , 24, 432-8	2.1	11
34	Enantioselective complexation of carbamoylated quinine and quinidine with N-blocked amino acids: vibrational and electronic circular dichroism study. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 3034-44	4.1	11
33	Preparation and Chiroptical Studies of Dendritic Alkaloid Derivatives. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 1237-1244	3.2	11
32	Photo-isomerization and oxidation of bilirubin in mammals is dependent on albumin binding. <i>Analytical Biochemistry</i> , 2015 , 490, 34-45	3.1	9
31	Electronic and vibrational optical activity of several peptides related to neurohypophyseal hormones: disulfide group conformation. <i>Biopolymers</i> , 2012 , 97, 923-32	2.2	9
30	Association of biotin with silver (I) in solution: a circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 1916-1920		9
29	Electronic and vibrational circular dichroism spectroscopic study of non-covalent interactions of meso-5,10,15,20-tetrakis(1-methylpyridinium-4-yl)porphyrin with (dG-dC) ₁₀ and (dA-dT) ₁₀ . <i>Vibrational Spectroscopy</i> , 2007 , 43, 71-77	2.1	9
28	Conformational study of some milk proteins. Comparison of the results of electronic circular dichroism and vibrational circular dichroism. <i>Bioelectrochemistry</i> , 1996 , 41, 77-80		9
27	Cyclopeptides containing the DEKS motif as conformationally restricted collagen telopeptide analogues: synthesis and conformational analysis. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 1878-96	3.9	8
26	Conformational flexibility of Corey lactone derivatives indicated by absorption and vibrational circular dichroism spectra. <i>Journal of Organic Chemistry</i> , 2004 , 69, 26-32	4.2	8
25	Enantioselective interaction of carbamoylated quinine and (S)-3,5-dinitrobenzoyl alanine: theoretical and experimental circular dichroism study. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11487-97	3.6	7
24	Cationic oligopeptides with the repeating sequence L-lysyl-L-alanyl-L-alanine: conformational and thermal stability study using optical spectroscopic methods. <i>Journal of Peptide Science</i> , 2009 , 15, 533-9	2.1	7
23	Absolute configuration and conformational analysis of sesquiterpene lactone glycoside studied by vibrational circular dichroism spectroscopy. <i>Journal of Molecular Structure</i> , 2007 , 871, 67-72	3.4	7
22	Vibrational circular dichroism spectroscopy study of paroxetine and femoxetine precursors. <i>Biopolymers</i> , 2002 , 67, 298-301	2.2	7
21	Nonplanar tertiary amides in rigid chiral tricyclic dilactams. Peptide group distortions and vibrational optical activity. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 9626-42	3.4	6
20	The DNA-Porphyrin Interactions Studied by Vibrational and Electronic Circular Dichroism Spectroscopy. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 1799-1810		6

19	Fluorescence properties of tetraphenylporphyrin-polypeptide complexes as model photosynthetic systems. <i>Chemical Physics Letters</i> , 1987 , 139, 49-54	2.5	6
18	Vibrational and electronic circular dichroism as powerful tools for the conformational analysis of cationic antimicrobial peptides. <i>Monatshefte Für Chemie</i> , 2016 , 147, 1439-1445	1.4	6
17	Preparation and enantioselectivity binding studies of a new chiral cobalt(II)porphyrin-Träger base conjugate. <i>Chirality</i> , 2014 , 26, 361-7	2.1	5
16	Vibrational circular dichroism study of solvent- and temperature-induced conformational changes in poly- β -benzyl-L-glutamate and poly- β -benzyl-L-aspartate. <i>Vibrational Spectroscopy</i> , 2013 , 66, 1-7	2.1	5
15	A Solid Phase Vibrational Circular Dichroism Study of Polypeptide-Surfactant Interaction. <i>Chirality</i> , 2015 , 27, 965-72	2.1	5
14	Stacked and continuous helical self-assemblies of guanosine monophosphates detected by vibrational circular dichroism. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2635-44	4.4	5
13	Study of stereoselective interactions of carbamoylated quinine and quinidine with 3,5-dinitrobenzoyl amino acids using VCD spectroscopy in the region of C=O stretching vibrations. <i>Chirality</i> , 2011 , 23, 354-60	2.1	5
12	Bisphenylene homologues of BINOL-based phosphoramidites: synthesis, stereostructure, and application in catalysis. <i>Tetrahedron Letters</i> , 2010 , 51, 1966-1970	2	4
11	Oligopeptide-porphyrin interactions studied by circular dichroism spectroscopy: the effect of metalloporphyrin axial ligands on peptide matrix conformation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008 , 12, 1270-1278	1.8	4
10	Interaction between TNF α and tetrapyrroles may account for their anti-genotoxic effects by a novel mechanism for DNA-protection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013 , 17, 1157-1166	1.8	3
9	Determination of Secondary Structures of Proteins Using Vibrational Circular Dichroism. <i>ACS Symposium Series</i> , 1994 , 61-70	0.4	3
8	Synthesis, F-labelling and radiopharmacological characterisation of the C-terminal 30mer of Clostridium perfringens enterotoxin as a potential claudin-targeting peptide. <i>Amino Acids</i> , 2019 , 51, 2193-2244	3.5	3
7	Circular Dichroism Spectroscopy 2012 , 337-369		2
6	Guanosine assemblies: newly used matrices for chiroptical studies on biliverdin. <i>Supramolecular Chemistry</i> , 2014 , 26, 7-14	1.8	1
5	Interaction of chiral bis-distamycin derivatives with DNAs: electronic circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 1049-1055		1
4	Independent linear combinations of spectroscopic constants for axially symmetric molecules. <i>Journal of Molecular Structure</i> , 1987 , 160, 347-356	3.4	1
3	Physico-chemical characterization of bilirubin-10-sulfonate and comparison of its acid-base behavior with unconjugated bilirubin. <i>Scientific Reports</i> , 2021 , 11, 12896	4.9	1
2	Circular Dichroism Spectroscopy 265-304		

- 1 Experimental Investigation of Energy Transfer Processes in the Model Photosynthetic Systems I
1990, 1781-1784