

# Marie Urbanová

## List of Publications by Year in descending order

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89  
papers

2,247  
citations

201575

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276775

41  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the Absolute Configurations of Natural Products via Density Functional Theory Calculations of Vibrational Circular Dichroism, Electronic Circular Dichroism and Optical Rotation: The Schizogyane Alkaloid Schizogyne. <i>Journal of Organic Chemistry</i> , 2007, 72, 2508-2524.	1.7	100
2	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, 1384-1401.	3.1	86
3	Vibrational Circular Dichroism of 1,1'-Binaphthyl Derivatives: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8931-8938.	1.1	84
4	Measurements of concentration dependence and enantiomeric purity of terpene solutions as a test of a new commercial VCD spectrometer. , 2000, 12, 199-203.		80
5	Determining the Absolute Configuration of Two Marine Compounds Using Vibrational Chiroptical Spectroscopy. <i>Journal of Organic Chemistry</i> , 2012, 77, 858-869.	1.7	71
6	Antibacterial C-Geranylflavonoids from <i>Paulownia tomentosa</i> Fruits. <i>Journal of Natural Products</i> , 2008, 71, 706-709.	1.5	68
7	Cytotoxic Activities of Several Geranyl-Substituted Flavanones. <i>Journal of Natural Products</i> , 2010, 73, 568-572.	1.5	65
8	Determination of the absolute configurations of natural products via density functional theory calculations of vibrational circular dichroism, electronic circular dichroism, and optical rotation: The isochizogyane alkaloids isoschizogaline and isoschizogamine. <i>Chirality</i> , 2008, 20, 454-470.	1.3	62
9	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.	1.5	62
10	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, 8735-8743.	1.7	60
11	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, 1721-1736.	1.1	59
12	Comparison of $\alpha$ -lactalbumin and lysozyme using vibrational circular dichroism. Evidence for a difference in crystal and solution structures. <i>Biochemistry</i> , 1991, 30, 10479-10485.	1.2	54
13	Vibrational circular dichroism of tetraphenylporphyrin in peptide complexes? A computational study. , 2000, 12, 191-198.		51
14	Minor C-geranylated flavanones from <i>Paulownia tomentosa</i> fruits with MRSA antibacterial activity. <i>Phytochemistry</i> , 2013, 89, 104-113.	1.4	46
15	Noncovalent interactions of peptides with porphyrins in aqueous solution: Conformational study using vibrational CD spectroscopy. <i>Biopolymers</i> , 2001, 60, 307-316.	1.2	45
16	Functional helquats: helical cationic dyes with marked, switchable chiroptical properties in the visible region. <i>Chemical Communications</i> , 2015, 51, 1583-1586.	2.2	45
17	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, 7520-7527.	1.6	42
18	Empirical studies of protein secondary structure by vibrational circular dichroism and related techniques. $\pm$ -Lactalbumin and lysozyme as examples. <i>Faraday Discussions</i> , 1994, 99, 263-285.	1.6	37

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19	[6]Saddlequat: a [6]helquat captured on its racemization pathway. <i>Chemical Science</i> , 2011, 2, 2314-2320.	3.7	37
20	Spectroscopic study of the temperature-dependent conformation of glucoamylase. <i>BBA - Proteins and Proteomics</i> , 1993, 1203, 290-294.	2.1	36
21	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.	1.4	36
22	(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, 161-168.	1.7	35
23	Evaluation of Cytotoxic Activity of <i>Schisandra chinensis</i> Lignans. <i>Planta Medica</i> , 2010, 76, 1672-1677.	0.7	34
24	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, 3392-3402.	1.2	33
25	Vibrational and electronic circular dichroism study of bile pigments: Complexes of bilirubin and biliverdin with metals. <i>Analytical Biochemistry</i> , 2009, 392, 28-36.	1.1	32
26	Bioinspired interactions studied by vibrational circular dichroism. <i>Chirality</i> , 2009, 21, E215-30.	1.3	30
27	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, 2554-2563.	1.1	30
28	Isoquinoline Alkaloids from <i>Fumaria officinalis</i> L. and Their Biological Activities Related to Alzheimer's Disease. <i>Chemistry and Biodiversity</i> , 2016, 13, 91-99.	1.0	30
29	CH Stretching Region: Computational Modeling of Vibrational Optical Activity. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3096-3108.	2.3	29
30	New chiral porphyrin-brucine gelator characterized by methods of circular dichroism. <i>Tetrahedron</i> , 2005, 61, 5499-5506.	1.0	28
31	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.	1.6	27
32	The Biological Effects of Bilirubin Photoisomers. <i>PLoS ONE</i> , 2016, 11, e0148126.	1.1	27
33	Sol-gel phase transition of brucine-appended porphyrin gelator: a study by vibrational circular dichroism spectroscopy. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2661-2666.	1.8	26
34	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.	1.0	26
35	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.	0.9	25
36	Stereoselective bile pigment binding to polypeptides and albumins: a circular dichroism study. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 1355-1365.	1.9	25

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37	Vibrational and electronic circular dichroism and absorption spectral study of the DNA $\alpha$ 5,10,15,20-tetrakis(1-methylpyridinium-4-yl)porphyrin interaction. <i>Journal of Molecular Structure</i> , 2005, 748, 17-25.	1.8	22
38	Formation and temperature stability of G $\alpha$ quadruplex structures studied by electronic and vibrational circular dichroism spectroscopy combined with ab initio calculations. <i>Biopolymers</i> , 2008, 89, 144-152.	1.2	22
39	Synthesis and chiroptical properties of enantiopure tricyclo[4.3.0.0 <sup>3,8</sup> ]nonane-4,5-dione (twistbrendanedione). <i>Tetrahedron: Asymmetry</i> , 2002, 13, 633-638.	1.8	21
40	Raman Optical Activity of the Central Part of Hinge Peptide. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 403-409.	1.0	21
41	Interactions of cyclodextrins with aromatic compounds studied by vibrational circular dichroism spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 2983-2989.	2.0	20
42	Vibrational and electronic circular dichroism study of the interactions of cationic porphyrins with (dG-dC) <sub>10</sub> and (dA-dT) <sub>10</sub> . <i>Biopolymers</i> , 2007, 85, 349-358.	1.2	19
43	Bile pigment complexes with cyclodextrins: electronic and vibrational circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 2061-2068.	1.8	19
44	Vibrational circular dichroism study of polypeptide model $\alpha$ membrane systems. <i>Analytical Biochemistry</i> , 2012, 427, 211-218.	1.1	19
45	Chiral recognition of bilirubin and biliverdin in liposomes and micelles. <i>Biophysical Chemistry</i> , 2015, 205, 41-50.	1.5	19
46	Conformational study of melectin and antapin antimicrobial peptides in model membrane environments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 247-255.	2.0	19
47	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.	2.0	18
48	The complexation of metal cations by d-galacturonic acid: a spectroscopic study. <i>Carbohydrate Research</i> , 2004, 339, 2391-2405.	1.1	17
49	Determination of Molecular Structure of Bisphenylene Homologues of BINOL-Based Phosphoramidites by Chiroptical Methods. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10717-10725.	1.1	17
50	Comparison of the Electronic and Vibrational Optical Activity of a Europium(III) Complex. <i>Chemistry - A European Journal</i> , 2015, 21, 5807-5813.	1.7	17
51	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, 536-545.	0.8	16
52	Product of alaptide synthesis: Determination of the absolute configuration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 958-961.	1.4	16
53	Chiroptical Properties of Bilirubin $\alpha$ Serum Albumin Binding Sites. <i>Chirality</i> , 2013, 25, 257-263.	1.3	16
54	Mutual structural effect of bilirubin and model membranes by vibrational circular dichroism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 831-841.	1.4	16



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73	Nonplanar Tertiary Amides in Rigid Chiral Tricyclic Dilactams. Peptide Group Distortions and Vibrational Optical Activity. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9626-9642.	1.2	7
74	Preparation and Enantioselectivity Binding Studies of a New Chiral Cobalt(II)porphyrinâ€”Tröger's Base Conjugate. <i>Chirality</i> , 2014, 26, 361-367.	1.3	7
75	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.	0.9	7
76	Study of stereoselective interactions of carbamoylated quinine and quinidine with 3,5-dinitrobenzoyl L-amino acids using VCD spectroscopy in the region of C-H stretching vibrations. <i>Chirality</i> , 2011, 23, 354-360.	1.3	6
77	Stacked and continuous helical self-assemblies of guanosine monophosphates detected by vibrational circular dichroism. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2635-2644.	1.9	5
78	Vibrational circular dichroism study of solvent- and temperature-induced conformational changes in poly-L-benzyl-L-glutamate and poly-L-benzyl-L-aspartate. <i>Vibrational Spectroscopy</i> , 2013, 66, 1-7.	1.2	5
79	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.	0.4	4
80	Bisphenylene homologues of BINOL-based phosphoramidites: synthesis, stereostructure, and application in catalysis. <i>Tetrahedron Letters</i> , 2010, 51, 1966-1970.	0.7	4
81	Interaction between TNF $\alpha$ and tetrapyrroles may account for their anti-genotoxic effects â€” a novel mechanism for DNA-protection. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013, 17, 1157-1166.	0.4	4
82	Synthesis, 18F-labelling and radiopharmacological characterisation of the C-terminal 30mer of <i>Clostridium perfringens</i> enterotoxin as a potential claudin-targeting peptide. <i>Amino Acids</i> , 2019, 51, 219-244.	1.2	4
83	Determination of Secondary Structures of Proteins Using Vibrational Circular Dichroism. <i>ACS Symposium Series</i> , 1994, , 61-70.	0.5	3
84	Circular Dichroism Spectroscopy. , 0, , 265-304.		3
85	Independent linear combinations of spectroscopic constants for axially symmetric molecules. <i>Journal of Molecular Structure</i> , 1987, 160, 347-356.	1.8	1
86	Interaction of chiral bis-distamycin derivatives with DNAs: electronic circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1049-1055.	1.8	1
87	Guanosine assemblies: newly used matrices for chiroptical studies on biliverdin. <i>Supramolecular Chemistry</i> , 2014, 26, 7-14.	1.5	1
88	Physico-chemical characterization of bilirubin-10-sulfonate and comparison of its acidâ€”base behavior with unconjugated bilirubin. <i>Scientific Reports</i> , 2021, 11, 12896.	1.6	1
89	Experimental Investigation of Energy Transfer Processes in the Model Photosynthetic Systems I. , 1990, , 1781-1784.		0