

# Vladimír Šetník

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

816  
citations

471371  
17  
h-index

580701  
25  
g-index

42  
all docs

42  
docs citations

42  
times ranked

891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of concentration dependence and enantiomeric purity of terpene solutions as a test of a new commercial VCD spectrometer. , 2000, 12, 199-203.		80
2	Investigation of Guanosine-Quartet Assemblies by Vibrational and Electronic Circular Dichroism Spectroscopy, a Novel Approach for Studying Supramolecular Entities. Chemistry - A European Journal, 2006, 12, 8735-8743.	1.7	60
3	Vibrational circular dichroism of tetraphenylporphyrin in peptide complexes? A computational study. , 2000, 12, 191-198.		51
4	Noncovalent interactions of peptides with porphyrins in aqueous solution: Conformational study using vibrational CD spectroscopy. Biopolymers, 2001, 60, 307-316.	1.2	45
5	Molecular Structure of Guanine-Quartet Supramolecular Assemblies in a Gel-State Based on a DFT Calculation of Infrared and Vibrational Circular Dichroism Spectra. Langmuir, 2008, 24, 7520-7527.	1.6	42
6	(3R,4S)-4-(4-Fluorophenyl)-3-hydroxymethyl-1-methylpiperidine: Conformation and Structure Monitoring by Vibrational Circular Dichroism. Journal of Organic Chemistry, 2002, 67, 161-168.	1.7	35
7	New chiral porphyrinâ€“brucine gelator characterized by methods of circular dichroism. Tetrahedron, 2005, 61, 5499-5506.	1.0	28
8	Analysis of human blood plasma and hen egg white by chiroptical spectroscopic methods (ECD, VCD,) Tj ETQq0 0 0 rgBT /Overclock 10 T	1.9	27
9	The minimizing of fluorescence background in Raman optical activity and Raman spectra of human blood plasma. Analytical and Bioanalytical Chemistry, 2015, 407, 1335-1342.	1.9	26
10	Planar Chiral Flavinium Salts: Synthesis and Evaluation of the Effect of Substituents on the Catalytic Efficiency in Enantioselective Sulfoxidation Reactions. European Journal of Organic Chemistry, 2013, 2013, 7724-7738.	1.2	25
11	Diagnosis of pancreatic cancer <i>via</i> <sup>1</sup>H NMR metabolomics of human plasma. Analyst, The, 2018, 143, 5974-5978.	1.7	23
12	Plasma amyloid beta levels and platelet mitochondrial respiration in patients with Alzheimer's disease. Clinical Biochemistry, 2019, 72, 71-80.	0.8	23
13	Identification of spectral biomarkers for type 1 diabetes mellitus using the combination of chiroptical and vibrational spectroscopy. Analyst, The, 2015, 140, 2266-2272.	1.7	21
14	The potential of chiroptical and vibrational spectroscopy of blood plasma for the discrimination between colon cancer patients and the control group. Analyst, The, 2015, 140, 2287-2293.	1.7	21
15	Interactions of cyclodextrins with aromatic compounds studied by vibrational circular dichroism spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 2983-2989.	2.0	20
16	Blood-based molecular signature of Alzheimer's disease via spectroscopy and metabolomics. Clinical Biochemistry, 2019, 72, 58-63.	0.8	20
17	Conformational study of melectin and antapin antimicrobial peptides in model membrane environments. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 170, 247-255.	2.0	19
18	Chiroptical spectroscopy and metabolomics for bloodâ€“based sensing of pancreatic cancer. Chirality, 2018, 30, 581-591.	1.3	19

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19	Methylone and pentylone: structural analysis of new psychoactive substances. <i>Forensic Toxicology</i> , 2019, 37, 366-377.	1.4	19
20	The complexation of metal cations by d-galacturonic acid: a spectroscopic study. <i>Carbohydrate Research</i> , 2004, 339, 2391-2405.	1.1	17
21	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
22	Search for biomarkers of Alzheimer's disease: Recent insights, current challenges and future prospects. <i>Clinical Biochemistry</i> , 2019, 72, 39-51.	0.8	17
23	Product of alaptide synthesis: Determination of the absolute configuration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 958-961.	1.4	16
24	Can Chiroptical Spectroscopy be Used for the Analysis of Blood Plasma?. <i>Chirality</i> , 2012, 24, 951-955.	1.3	16
25	Structure determination of butylone as a new psychoactive substance using chiroptical and vibrational spectroscopies. <i>Chirality</i> , 2018, 30, 548-559.	1.3	16
26	Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods. <i>ChemPhysChem</i> , 2017, 18, 2258-2265.	1.0	15
27	Synthesis, absolute configuration and <i>in vitro</i> cytotoxicity of deschloroketamine enantiomers: rediscovered and abused dissociative anaesthetic. <i>New Journal of Chemistry</i> , 2018, 42, 19360-19368.	1.4	14
28	Early Detection of Pancreatic Cancer in Type 2 Diabetes Mellitus Patients Based on <sup>1</sup> H NMR Metabolomics. <i>Journal of Proteome Research</i> , 2021, 20, 1744-1753.	1.8	14
29	Structural spectroscopic study of enantiomerically pure synthetic cathinones and their major metabolites. <i>New Journal of Chemistry</i> , 2021, 45, 850-860.	1.4	10
30	Conformational Flexibility of Corey Lactone Derivatives Indicated by Absorption and Vibrational Circular Dichroism Spectra. <i>Journal of Organic Chemistry</i> , 2004, 69, 26-32.	1.7	9
31	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, 533-539.	0.8	7
32	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
33	Structure of heroin in a solution revealed by chiroptical spectroscopy. <i>Chirality</i> , 2020, 32, 854-865.	1.3	7
34	Complexation of cathinones by 4-tert-butylcalix[4]arene tetra-acetate as a possible technique for forensic analysis. <i>Forensic Toxicology</i> , 2020, 38, 70-78.	1.4	6
35	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
36	Chiroptical and vibrational spectroscopic study of genuine and counterfeit medicines containing tadalafil. <i>Chirality</i> , 2018, 30, 560-567.	1.3	4

#	ARTICLE	IF	CITATIONS
37	Chiroptical Spectroscopy of Biofluids. , 2018, , 429-465.		4
38	Comparison of genuine, generic and counterfeit Cialis tablets using vibrational spectroscopy and statistical methods. Journal of Pharmaceutical and Biomedical Analysis, 2021, 206, 114383.	1.4	4
39	Ecstasy tablets: Rapid identification and determination of enantiomeric excess of MDMA. Forensic Chemistry, 2021, 26, 100381.	1.7	4
40	Electronic circular dichroism for the detection of microalbuminuria. Chirality, 2018, 30, 576-580.	1.3	2
41	Structural analysis of MDMA in solution by methods of chiroptical spectroscopy supported by DFT calculations. Vibrational Spectroscopy, 2021, 114, 103255.	1.2	2
42	Reply to Comments by Pescitelli and Bruhn on "Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods". ChemPhysChem, 2017, 18, 2552-2552.	1.0	0