

Jaroslav Sebestik

List of Publications by Year in descending order

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78
papers

1,362
citations

361296

20
h-index

360920

35
g-index

89
all docs

89
docs citations

89
times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Peptide dendrimers. <i>Journal of Peptide Science</i> , 2005, 11, 757-788.	0.8	110
2	Peptide and glycopeptide dendrimers and analogous dendrimeric structures and their biomedical applications. <i>Amino Acids</i> , 2011, 40, 301-370.	1.2	98
3	Raman Optical Activity of Methyloxirane Gas and Liquid. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 498-502.	2.1	75
4	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
5	Glycopeptide dendrimers, Part III – a review: Use of glycopeptide dendrimers in immunotherapy and diagnosis of cancer and viral diseases. <i>Journal of Peptide Science</i> , 2008, 14, 556-587.	0.8	68
6	Glycopeptide dendrimers. Part I. <i>Journal of Peptide Science</i> , 2008, 14, 2-43.	0.8	64
7	Glycopeptide dendrimers. Part II. <i>Journal of Peptide Science</i> , 2008, 14, 44-65.	0.8	55
8	Ramachandran Plot for Alanine Dipeptide as Determined from Raman Optical Activity. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2763-2768.	2.1	55
9	New tripodal hydroxypyridinone based chelating agents for Fe(III), Al(III) and Ga(III): Synthesis, physico-chemical properties and bioevaluation. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 262-273.	1.5	50
10	A Role of the 9-Aminoacridines and their Conjugates in a Life Science. <i>Current Protein and Peptide Science</i> , 2007, 8, 471-483.	0.7	44
11	A Complete Set of NMR Chemical Shifts and Spin-Spin Coupling Constants for L-Alanyl-L-alanine Zwitterion and Analysis of Its Conformational Behavior. <i>Journal of the American Chemical Society</i> , 2005, 127, 17079-17089.	6.6	38
12	Bifunctional phenolic-choline conjugates as anti-oxidants and acetylcholinesterase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011, 26, 485-497.	2.5	38
13	Theoretical Modeling of the Surface-Enhanced Raman Optical Activity. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1714-1720.	2.3	37
14	Interpretation of Synchrotron Radiation Circular Dichroism Spectra of Anionic, Cationic, and Zwitterionic Dialanine Forms. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2750-2760.	1.1	33
15	Binding of Lanthanide Complexes to Histidine-Containing Peptides Probed by Raman Optical Activity Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 8664-8669.	1.7	31
16	L-Alanyl-L-alanine Conformational Changes Induced by pH As Monitored by the Raman Optical Activity Spectra. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7760-7768.	1.1	29
17	Conformational Properties of the Pro-Gly Motif in the D-Ala-L-Pro-Gly-D-Ala Model Peptide Explored by a Statistical Analysis of the NMR, Raman, and Raman Optical Activity Spectra. <i>Journal of Organic Chemistry</i> , 2008, 73, 1481-1489.	1.7	28
18	Intense chirality induction in nitrile solvents by a helquat dye monitored by near resonance Raman scattering. <i>Chemical Communications</i> , 2016, 52, 6257-6260.	2.2	27

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19	Resolution of Organic Polymorphic Crystals by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7297-7307.	1.2	25
20	Ferric Complexes of 3-Hydroxy-4-pyridinones Characterized by Density Functional Theory and Raman and UV-Vis Spectroscopies. <i>Inorganic Chemistry</i> , 2012, 51, 4473-4481.	1.9	23
21	Vibrational Optical Activity of Intermolecular, Overtone, and Combination Bands: 2-Chloropropionitrile and \pm -Pinene. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2147-2156.	1.2	23
22	Dependence of the α -Alanyl- β -Alanine Conformation on Molecular Charge Determined from Ab Initio Computations and NMR Spectra. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1796-1805.	1.2	22
23	New peptide conjugates with 9-aminoacridine: synthesis and binding to DNA. <i>Journal of Peptide Science</i> , 2006, 12, 472-480.	0.8	19
24	Observation of Paramagnetic Raman Optical Activity of Nitrogen Dioxide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9236-9239.	7.2	19
25	Three Types of Induced Tryptophan Optical Activity Compared in Model Dipeptides: Theory and Experiment. <i>ChemPhysChem</i> , 2012, 13, 2748-2760.	1.0	18
26	Quantitative Determination of Ala-Ala Conformer Ratios in Solution by Decomposition of Raman Optical Activity Spectra. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8956-8964.	1.2	17
27	Biomedical Applications of Peptide-, Glyco- and Glycopeptide Dendrimers, and Analogous Dendrimeric Structures. , 2012, , .		17
28	Diamagnetic Raman Optical Activity of Chlorine, Bromine, and Iodine Gases. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3504-3508.	7.2	16
29	Monitoring peptide tyrosine nitration by spectroscopic methods. <i>Amino Acids</i> , 2021, 53, 517-532.	1.2	14
30	Solid-phase synthesis of head and tail bis-acridinylated peptides. <i>Tetrahedron Letters</i> , 2004, 45, 1203-1205.	0.7	13
31	Chiral detection by induced surface-enhanced Raman optical activity. <i>Chemical Communications</i> , 2021, 57, 6388-6391.	2.2	13
32	Discovery of Modified Amidate (ProTide) Prodrugs of Tenofovir with Enhanced Antiviral Properties. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16425-16449.	2.9	13
33	Quinacrine reactivity with prion proteins and prion-derived peptides. <i>Amino Acids</i> , 2013, 44, 1279-1292.	1.2	12
34	Biomedical Applications of Acridines. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2017, , .	0.6	12
35	Acridin-9-yl exchange: A proposal for the action of some 9-aminoacridine drugs. <i>Biopolymers</i> , 2006, 84, 605-614.	1.2	11
36	Reactivity of 9-aminoacridine drug quinacrine with glutathione limits its antiprion activity. <i>Chemical Biology and Drug Design</i> , 2017, 89, 932-942.	1.5	11

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37	Magnetic circular dichroism of chlorofullerenes: Experimental and computational study. <i>Chemical Physics Letters</i> , 2016, 647, 117-121.	1.2	9
38	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
39	Diamagnetic Raman Optical Activity of Chlorine, Bromine, and Iodine Gases. <i>Angewandte Chemie</i> , 2016, 128, 3565-3569.	1.6	7
40	Understanding CH-Stretching Raman Optical Activity in Ala-Ala Dipeptides. <i>Journal of Physical Chemistry A</i> , 2020, 124, 674-683.	1.1	7
41	Dependence of the Reactivity of Acridine on Its Substituents: A Computational and Kinetic Study. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6989-6997.	1.2	5
42	Resolving Electronic Transitions in Synthetic Fluorescent Protein Chromophores by Magnetic Circular Dichroism. <i>ChemPhysChem</i> , 2016, 17, 2348-2354.	1.0	5
43	Applications for Treatment of Neurodegenerative Diseases. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2017, , 99-134.	0.6	5
44	Synthesis of Dendrimers: Convergent and Divergent Approaches. , 2012, , 55-81.		5
45	Molecular Recognition of Cyclic-Nucleotides and Current Sensors for Their Detection. <i>Current Protein and Peptide Science</i> , 2005, 6, 133-142.	0.7	4
46	Synthesis of protected peptides from the human IgG1 hinge region on PEG support using disulfide bond synthons and alkaline or enzymatic detachment. <i>Tetrahedron Letters</i> , 2006, 47, 1023-1025.	0.7	4
47	Rational design and synthesis of a double-stranded DNA-binder library. <i>Biopolymers</i> , 2006, 84, 400-407.	1.2	4
48	Glutamate carboxypeptidase II does not process amyloid- β peptide. <i>FASEB Journal</i> , 2013, 27, 2626-2632.	0.2	4
49	Rapid acidolysis of benzyl group as a suitable approach for syntheses of peptides naturally produced by oxidative stress and containing 3-nitrotyrosine. <i>Amino Acids</i> , 2016, 48, 1087-1098.	1.2	4
50	Neutral and charged forms of inubosin B in aqueous solutions at different pH and on the surface of Ag nanoparticles. <i>Journal of Molecular Structure</i> , 2022, 1250, 131828.	1.8	4
51	In-source reduction of the azo group during matrix-assisted laser desorption/ionization time-of-flight mass spectrometry experiments. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 817-818.	0.7	3
52	Comparative syntheses of peptides and peptide thioesters derived from mouse and human prion proteins. <i>Amino Acids</i> , 2012, 43, 1297-1309.	1.2	3
53	Dendrimers in Gene Delivery. , 2012, , 141-147.		3
54	Syntheses. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2017, , 9-45.	0.6	3

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55	Total synthesis of inubosin B. Tetrahedron Letters, 2020, 61, 152641.	0.7	3
56	Dendrimers in Neurodegenerative Diseases. , 2012, , 209-221.		3
57	Dendrimers in Drug Delivery. , 2012, , 131-140.		2
58	Interactions of Acridines with Nucleic Acids. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2017, , 47-71.	0.6	2
59	Purification and Characterization of Dendrimers. , 2012, , 83-92.		2
60	Electrophoresis of Derivatized Polyethylene Glycols: A Useful Method for Monitoring of Reactions on Soluble Polymeric Carrier. International Journal of Peptide Research and Therapeutics, 2005, 11, 291-296.	0.9	1
61	Molecular dynamics simulation of chiral chromatography. Chemical Physics Letters, 2008, 451, 233-236.	1.2	1
62	Dendrimers in Catalysis. , 2012, , 99-102.		1
63	Interactions with Proteins. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2017, , 73-97.	0.6	1
64	Dendrimeric Libraries. , 2012, , 93-98.		1
65	Dendrimers in Nanoscience and Nanotechnology. , 2012, , 115-129.		1
66	Classes of Peptide-, Glyco-, and Glycopeptide Dendrimers. , 2012, , 29-44.		1
67	Vaccines and Immunomodulation. , 2012, , 199-207.		1
68	Photochemical synthesis of pink silver and its use for monitoring peptide nitration via surface enhanced Raman spectroscopy (SERS). Amino Acids, 0, , .	1.2	1
69	Dendrimers and Bacteria. , 2012, , 149-159.		0
70	Acridines Used for Staining. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2017, , 193-206.	0.6	0
71	Some Application of Selective Toxicities of Acridines. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2017, , 135-163.	0.6	0
72	Pharmacokinetics and Metabolism of Acridine Drugs. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2017, , 165-186.	0.6	0

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73	Reaction of prion protein with quinacrine. , 2011, , .		0
74	Synthetic scan of C-domain from prion proteins. , 2011, , .		0
75	The Dendritic State and Dendritic Effects. , 2012, , 45-54.		0
76	Dendrimers and Solubility. , 2012, , 105-109.		0
77	Dendrimers and Parasites. , 2012, , 171-173.		0
78	Definition of Terms and Nomenclature. , 2012, , 9-22.		0