

Florine Cavelier

List of Publications by Year in descending order

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257450

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times ranked

1910
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-Containing Amino Acids: Synthetic Aspects, Conformational Studies, and Applications to Bioactive Peptides. <i>Chemical Reviews</i> , 2016, 116, 11654-11684.	47.7	242
2	Varietal Thiols in Wine: Discovery, Analysis and Applications. <i>Chemical Reviews</i> , 2011, 111, 7355-7376.	47.7	179
3	Influence of Silaproline on Peptide Conformation and Bioactivity. <i>Journal of the American Chemical Society</i> , 2002, 124, 2917-2923.	13.7	77
4	Identification and quantification by LC-MS/MS of a new precursor of 3-mercaptohexan-1-ol (3MH) using stable isotope dilution assay: Elements for understanding the 3MH production in wine. <i>Food Chemistry</i> , 2010, 121, 847-855.	8.2	73
5	Synthesis of Silaproline, a New Proline Surrogate. , 2000, 2000, 807-811.		67
6	Replacement of a Proline with Silaproline Causes a 20-Fold Increase in the Cellular Uptake of a Pro-Rich Peptide. <i>Journal of the American Chemical Society</i> , 2006, 128, 8479-8483.	13.7	66
7	Distribution of varietal thiol precursors in the skin and the pulp of Melon B. and Sauvignon Blanc grapes. <i>Food Chemistry</i> , 2011, 125, 139-144.	8.2	51
8	New synthesis of the cyclic tetrapeptide tentoxin employing an azlactone as key intermediate. <i>Tetrahedron Letters</i> , 1995, 36, 4425-4428.	1.4	45
9	Isolation, structure and synthesis of mahafacyclin B, a cyclic heptapeptide from the latex of <i>Jatropha mahafalensis</i> . <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 2098-2103.	1.3	43
10	A first approach to asymmetric protonation via a polymer supported chiral proton donor. <i>Tetrahedron Letters</i> , 1994, 35, 2891-2894.	1.4	39
11	Synthesis and Biological Effects of c(Lys-Lys-Pro-Tyr-Ile-Leu-Lys-Lys-Pro-Tyr-Ile-Leu) (JMV2012), a New Analogue of Neurotensin that Crosses the Blood-Brain Barrier. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1610-1616.	6.4	39
12	Straightforward Synthesis of Deuterated Precursors To Demonstrate the Biogenesis of Aromatic Thiols In Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 10684-10689.	5.2	37
13	How to perform small peptide cyclizations. <i>Computational and Theoretical Chemistry</i> , 1993, 286, 125-130.	1.5	36
14	Studies of selective Boc removal in the presence of silyl ethers. <i>Tetrahedron Letters</i> , 1996, 37, 5131-5134.	1.4	36
15	Natural cyclopeptides as leads for novel pesticides: tentoxin and destruxin. <i>Pest Management Science</i> , 1998, 52, 81-89.	0.4	32
16	Supported Synthesis of Oxoapratoxin A. <i>Journal of Organic Chemistry</i> , 2009, 74, 4298-4304.	3.2	32
17	Biological activity of silylated amino acid containing substance P analogues. <i>Chemical Biology and Drug Design</i> , 2004, 63, 290-296.	1.1	31
18	Spinal NTS2 receptor activation reverses signs of neuropathic pain. <i>FASEB Journal</i> , 2013, 27, 3741-3752.	0.5	31

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19	Synthesis and Characterization in Vitro and in Vivo of (L)-S-(Trimethylsilyl)alanine Containing Neurotensin Analogues. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7785-7795.	6.4	30
20	First identification and quantification of S-3-(hexan-1-ol)- ¹³ C-glutamyl-cysteine in grape must as a potential thiol precursor, using UPLC-MS/MS analysis and stable isotope dilution assay. <i>Food Chemistry</i> , 2017, 237, 877-886.	8.2	30
21	Spotlight on release mechanisms of volatile thiols in beverages. <i>Food Chemistry</i> , 2021, 339, 127628.	8.2	30
22	Silaprolone Helical Mimetics Selectively Form an All-trans PPII Helix. <i>Chemistry - A European Journal</i> , 2014, 20, 14240-14244.	3.3	29
23	Phosphoryl(borane) Amino Acids and Peptides: Stereoselective Synthesis and Fluorescent Properties with Large Stokes Shift. <i>Journal of the American Chemical Society</i> , 2018, 140, 1028-1034.	13.7	28
24	Innovative analysis of 3-mercaptohexan-1-ol, 3-mercaptohexylacetate and their corresponding disulfides in wine by stable isotope dilution assay and nano-liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1468, 154-163.	3.7	26
25	Stereoselective synthesis of unsaturated L-amino acids. <i>Amino Acids</i> , 2015, 47, 1107-1115.	2.7	25
26	Isolation, structure and synthesis of chevalierins A, B and C, cyclic peptides from the latex of <i>Jatropha chevalieri</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 3033-3040.	0.9	24
27	Revisiting the evaluation strategy of varietal thiol biogenesis. <i>Food Chemistry</i> , 2018, 268, 126-133.	8.2	24
28	Deracemization of silyl enol ethers. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 2501-2505.	1.8	23
29	Study of a lipophilic captopril analogue binding to angiotensin I converting enzyme. <i>Journal of Peptide Science</i> , 2010, 16, 91-97.	1.4	23
30	N-bis-silylation of L-amino acids: benzotriazolyl as amino protecting group. <i>Tetrahedron</i> , 1991, 47, 9807-9822.	1.9	22
31	Destruxin analogues: Depsi peptidic bond replacement by amide bond. <i>Tetrahedron</i> , 1996, 52, 6173-6186.	1.9	22
32	Metabolism of Tentoxin by Hepatic Cytochrome P-450 3A Isozymes. <i>FEBS Journal</i> , 1997, 250, 150-157.	0.2	22
33	A side-reaction in the SPPS of Trp-containing peptides. , 1999, 5, 457-461.		22
34	High yield synthesis of tentoxin, a cyclic tetrapeptide. <i>Journal of Peptide Science</i> , 2002, 8, 335-346.	1.4	22
35	(L)-S-(Trimethylsilyl)alanine synthesis exploiting hydroxypinanone-induced diastereoselective alkylation. <i>Amino Acids</i> , 2013, 45, 301-307.	2.7	22
36	Analysis of ochratoxin A in grapes, musts and wines by LC-MS/MS: First comparison of stable isotope dilution assay and diastereomeric dilution assay methods. <i>Analytica Chimica Acta</i> , 2014, 818, 39-45.	5.4	22

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37	Synthesis, Structure, and Properties of MeSer1-Tentoxin, a New Cyclic Tetrapeptide Which Interacts Specifically with Chloroplast F1H+-ATPase Differentiation of Inhibitory and Stimulating Effects. <i>Biochemistry</i> , 1996, 35, 12804-12811.	2.5	20
38	A silaproline-containing dipeptide. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 1452-1454.	0.4	20
39	α -Disubstituted Amino Acids with Silylated Side Chains as Lipophilic Building Blocks for the Synthesis of Peptaibol Analogues. <i>Chemistry and Biodiversity</i> , 2008, 5, 1279-1287.	2.1	20
40	Use of Molecular Modeling to Design Selective NTS2 Neurotensin Analogues. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3303-3313.	6.4	19
41	Tentoxin has at least two binding sites on CF1 and μ -depleted CF1 ATPases isolated from spinach chloroplast. <i>FEBS Letters</i> , 1996, 395, 217-220.	2.8	18
42	Straightforward Synthesis of Chiral Silylated Amino Acids through Hydrosilylation. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3107-3112.	2.4	18
43	Neurotensin Analogues Containing Cyclic Surrogates of Tyrosine at Position 11 Improve NTS2 Selectivity Leading to Analgesia without Hypotension and Hypothermia. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4535-4544.	3.5	18
44	New diastereoselective synthesis of protected meso-lanthionine with discrimination of the chiral centers. <i>Tetrahedron: Asymmetry</i> , 1992, 3, 85-94.	1.8	17
45	Conformational studies of proline-, thiaproline- and dimethylsilaproline-containing diketopiperazines. <i>Journal of Peptide Science</i> , 2006, 12, 621-625.	1.4	17
46	Control by Metals of Staphylopin Dehydrogenase Activity during Metallophore Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 5555-5562.	13.7	17
47	Phosphorus-containing amino acids with a P-C bond in the side chain or a P=O, P=S or P=N bond: from synthesis to applications. <i>RSC Advances</i> , 2020, 10, 6678-6724.	3.6	17
48	Direct Access to α -Azetidino- β -carboxylic Acid. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2729-2732.	2.4	16
49	Destruxin analogs: variations of the β -hydroxy acid side chain. <i>Chemical Biology and Drug Design</i> , 1997, 50, 94-101.	1.1	16
50	Resolution of protected silaproline for a gram scale preparation. <i>Amino Acids</i> , 2012, 43, 649-655.	2.7	15
51	Toward high yield synthesis of peptide-oligonucleotide chimera through a disulfide bridge: A simplified method for oligonucleotide activation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 5084-5087.	2.2	14
52	Simple rules govern the diversity of bacterial nicotianamine-like metallophores. <i>Biochemical Journal</i> , 2019, 476, 2221-2233.	3.7	14
53	Peptide Bond Formation Using Polymer-Bound BOP. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 1936-1939.	2.4	13
54	Highly Resolutive Separations of Hardly Soluble Synthetic Polypeptides by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2010, 82, 394-399.	6.5	13

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55	Stereoselective Synthesis of β -(5-Arylthiazolyl) α -Amino Acids and Use in Neurotensin Analogues. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1017-1024.	2.4	13
56	Hydrophobic β , γ -Disubstituted Disilylated TESDpg Induces Incipient 3_{10} -Helix in Short Tripeptide Sequence. <i>Organic Letters</i> , 2017, 19, 2937-2940.	4.6	13
57	Optimized Opioid-Neurotensin Multitarget Peptides: From Design to Structure-Activity Relationship Studies. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12929-12941.	6.4	13
58	How organic and analytical chemistry contribute to knowledge of the biogenesis of varietal thiols in wine. A review.. <i>Flavour and Fragrance Journal</i> , 2012, 27, 266-272.	2.6	12
59	First Synthesis of a Stable Isotope of Ochratoxin A Metabolite for a Reliable Detoxification Monitoring. <i>Organic Letters</i> , 2013, 15, 3888-3890.	4.6	12
60	Silicon-Containing Neurotensin Analogues as Radiopharmaceuticals for NTS1-Positive Tumors Imaging. <i>Bioconjugate Chemistry</i> , 2020, 31, 2339-2349.	3.6	12
61	Insightful Backbone Modifications Preventing Proteolytic Degradation of Neurotensin Analogs Improve NTS1-Induced Protective Hypothermia. <i>Frontiers in Chemistry</i> , 2020, 8, 406.	3.6	12
62	Determination of the enantiomeric excess of β -hydroxy acids. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 2495-2500.	1.8	11
63	Synthesis of homopolypeptides with PPII structure. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3103-3109.	2.3	11
64	Access to β , γ -Disubstituted Disilylated Amino Acids and Their Use in Solid-Phase Peptide Synthesis. <i>Organic Letters</i> , 2015, 17, 4498-4501.	4.6	11
65	Neurotensin Modulates the Electrical Activity of Frog Pituitary Melanotropes via Activation of a G-Protein-Coupled Receptor Pharmacologically Related to Both the NTS1 and nts2 Receptors of Mammals. <i>Neuroendocrinology</i> , 2000, 72, 379-391.	2.5	10
66	A flexible synthesis of C33-C39 polyketide region of apratoxin: Synthesis of natural and unnatural analogues. <i>Comptes Rendus Chimie</i> , 2011, 14, 437-440.	0.5	10
67	Towards a selective Boc deprotection on acid cleavable Wang resin. <i>Tetrahedron Letters</i> , 2003, 44, 4757-4759.	1.4	9
68	Prediction of pK_a Using DFT: the Nicotianamine Polyacid Example. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5493-5500.	5.3	9
69	New general strategy of dimerization of bioactive molecules. <i>Tetrahedron Letters</i> , 2001, 42, 1895-1897.	1.4	8
70	A contribution to the nomenclature of depsipeptides. <i>Journal of Peptide Science</i> , 2004, 10, 115-118.	1.4	8
71	Pain relief devoid of opioid side effects following central action of a silylated neurotensin analog. <i>European Journal of Pharmacology</i> , 2020, 882, 173174.	3.5	8
72	Cyclization of Peptides through a Urea Bond: Application to the Arg-Gly-Asp Tripeptide. <i>ChemBioChem</i> , 2010, 11, 1083-1092.	2.6	7

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73	Silole Amino Acids with Aggregation-Induced Emission Features Synthesized by Hydrosilylation. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2275-2281.	2.4	7
74	REGIOSELECTIVE EPOXIDE RING-OPENING TO THE ENANTIOMERICALLY PURE $\hat{\pm}$ -HYDROXY ANALOGUE OF S-TERT-BUTYL CYSTEINE. <i>Organic Preparations and Procedures International</i> , 1998, 30, 103-106.	1.3	6
75	Efficient Synthesis of Nicotianamine and Non-Natural Analogues. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 6609-6617.	2.4	6
76	Neurotensin and Its Receptors $\hat{\pm}$. , 2017, , .		6
77	Metabolically stable neurotensin analogs exert potent and long-acting analgesia without hypothermia. <i>Behavioural Brain Research</i> , 2021, 405, 113189.	2.2	6
78	Synthesis and Biological Activities of Cyclodepsipeptides of Aurilide Family from Marine Origin. <i>Marine Drugs</i> , 2021, 19, 55.	4.6	6
79	AN EFFICIENT ONE STEP SYNTHESIS OF <i>tert</i> -BUTYL GLYCINATE AND <i>tert</i> -BUTYL SARCOSINATE. <i>Organic Preparations and Procedures International</i> , 1994, 26, 608-610.	1.3	5
80	Gas-phase reactivity of protonated cyclodepsipeptidic toxins: The study of a systematic fragmentation pathway under fast-atom bombardment desorption. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1512-1515.	1.5	5
81	First synthesis of the enantiomerically pure $\hat{\pm}$ -hydroxy analogue of S- <i>tert</i> -butyl cysteine. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 41-43.	1.8	5
82	JMS Letters. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1168-1170.	1.6	5
83	The crystallographic structure of thermoNicotianamine synthase with a synthetic reaction intermediate highlights the sequential processing mechanism. <i>Chemical Communications</i> , 2011, 47, 5825.	4.1	5
84	<i>N</i> -Substituted Glycines with Functional Side-Chains for Peptoid Synthesis. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 8142-8147.	2.4	5
85	Silaproline, a Silicon-Containing Proline Surrogate. <i>Topics in Heterocyclic Chemistry</i> , 2015, , 27-50.	0.2	5
86	Expedient Synthesis of Fmoc-(S)- $\hat{\beta}$ -Fluoro-leucine and Late-Stage Fluorination of Peptides. <i>Synlett</i> , 2016, 27, 1403-1407.	1.8	5
87	Fluorescent $\hat{\alpha}$ -Hydroxyphosphole for Peptide Labeling through $\hat{\alpha}$ -N Bond Formation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	5
88	Original and General Strategy of Dimerization of Bioactive Molecules. , 2001, , 152-154.		3
89	Data set describing the in vitro biological activity of JMV2009, a novel silylated neurotensin(8-13) analog. <i>Data in Brief</i> , 2020, 31, 105884.	1.0	2
90	Natural cyclopeptides as leads for novel pesticides: tentoxin and destruxin. <i>Pest Management Science</i> , 1998, 52, 81-89.	0.4	2

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91	Improved synthesis of preformed Boc-aminoacid-bridging groups for use in solid phase peptide synthesis. <i>Tetrahedron Letters</i> , 1990, 31, 2003-2006.	1.4	1
92	Analogues of tentoxin: Tools for mechanistic investigations. <i>International Journal of Peptide Research and Therapeutics</i> , 1997, 4, 283-288.	0.1	1
93	Synthesis of tritium labelled delta sleep-inducing peptide. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, 501-508.	1.0	1
94	Synthesis of Two Epimers of Pseudopaline. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3975-3980.	2.4	1
95	Studies on Side Chain Interactions during the Isopenicillin N Synthase Catalysed Biosynthesis of Penicillins. <i>Journal of Chemical Research Synopses</i> , 1997, , 200-201.	0.3	0
96	Synthesis and Biological Activity of Nicotianamine and Analogues. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 555-557.	1.6	0
97	Effects of Tentoxin and Analogues on ATPase Properties of CF1 and TF1. , 1995, , 2063-2066.		0
98	Design of new tentoxin analogues: Study of the ATP-synthase catalytic mechanism. , 2002, , 110-111.		0