

Marta De Zotti

List of Publications by Year in descending order

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93
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279487

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1438
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#	ARTICLE	IF	CITATIONS
1	The Bip Method, Based on the Induced Circular Dichroism of a Flexible Biphenyl Probe in Terminally Protected -Bip-Xaa*- Dipeptides, for Assignment of the Absolute Configuration of Î²-Amino Acids. <i>Journal of the American Chemical Society</i> , 2008, 130, 5986-5992.	6.6	56
2	Membrane thickness and the mechanism of action of the short peptaibol trichogin GA IV. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1013-1024.	1.4	56
3	Trichogin GA IV: an antibacterial and protease-resistant peptide. <i>Journal of Peptide Science</i> , 2009, 15, 615-619.	0.8	55
4	Handedness preference and switching of peptide helices. Part II: Helices based on noncoded amino acids. <i>Journal of Peptide Science</i> , 2015, 21, 148-177.	0.8	55
5	Handedness preference and switching of peptide helices. Part I: Helices based on protein amino acids. <i>Journal of Peptide Science</i> , 2014, 20, 307-322.	0.8	49
6	Trichogin GA IV: A versatile template for the synthesis of novel peptaibiotics. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1285-1299.	1.5	46
7	Left-Handed Helical Preference in an Achiral Peptide Chain Is Induced by an L-Amino Acid in an N-Terminal Type II Î²-Turn. <i>Journal of Organic Chemistry</i> , 2013, 78, 2248-2255.	1.7	43
8	Backbone Dynamics of Alamethicin Bound to Lipid Membranes: Spin-Echo Electron Paramagnetic Resonance of TOAC-Spin Labels. <i>Biophysical Journal</i> , 2008, 94, 2698-2705.	0.2	39
9	Alamethicin Topology in Phospholipid Membranes by Oriented Solid-state NMR and EPR Spectroscopies: a Comparison. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3034-3042.	1.2	39
10	Alamethicin in bicelles: Orientation, aggregation, and bilayer modification as a function of peptide concentration. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2620-2627.	1.4	35
11	Synthesis, preferred conformation, protease stability, and membrane activity of heptaibin, a medium-length peptaibiotic. <i>Journal of Peptide Science</i> , 2011, 17, 585-594.	0.8	33
12	Mimicking Nature: A Novel Peptide-based Bioinspired Approach for Solar Energy Conversion. <i>ChemPhysChem</i> , 2014, 15, 64-68.	1.0	32
13	Structure of Self-Aggregated Alamethicin in ePC Membranes Detected by Pulsed Electron-Electron Double Resonance and Electron Spin Echo Envelope Modulation Spectroscopies. <i>Biophysical Journal</i> , 2009, 96, 3197-3209.	0.2	31
14	PELDOR Conformational Analysis of bis-Labeled Alamethicin Aggregated in Phospholipid Vesicles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13469-13472.	1.2	30
15	Antimicrobial lipopeptaibol trichogin GA IV: role of the three Aib residues on conformation and bioactivity. <i>Amino Acids</i> , 2012, 43, 1761-1777.	1.2	29
16	Alamethicin Supramolecular Organization in Lipid Membranes from 19F Solid-State NMR. <i>Biophysical Journal</i> , 2016, 111, 2450-2459.	0.2	28
17	Concerning Selectivity in the Oxidation of Peptides by Dioxiranes. Further Insight into the Effect of Carbamate Protecting Groups. <i>Journal of Organic Chemistry</i> , 2010, 75, 4812-4816.	1.7	26
18	The rational search for selective anticancer derivatives of the peptide Trichogin GA IV: a multi-technique biophysical approach. <i>Scientific Reports</i> , 2016, 6, 24000.	1.6	26

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19	Review conformation, self-aggregation, and membrane interaction of peptaibols as studied by pulsed electron double resonance spectroscopy. <i>Biopolymers</i> , 2016, 106, 6-24.	1.2	26
20	The Lipid Dependence of Antimicrobial Peptide Activity Is an Unreliable Experimental Test for Different Pore Models. <i>Biochemistry</i> , 2012, 51, 10124-10126.	1.2	25
21	Synthesis, Characterization, and Biological Evaluation of a Dual-action Ligand Targeting β -Integrin and VEGF Receptors. <i>ChemistryOpen</i> , 2015, 4, 633-641.	0.9	25
22	Single and multiple peptide β -turns: literature survey and recent progress. <i>New Journal of Chemistry</i> , 2015, 39, 3208-3216.	1.4	25
23	Targeted Amino Acid Substitutions in a Trichoderma Peptaibol Confer Activity against Fungal Plant Pathogens and Protect Host Tissues from Botrytis cinerea Infection. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7521.	1.8	25
24	A Molecular View on the Role of Cholesterol upon Membrane Insertion, Aggregation, and Water Accessibility of the Antibiotic Lipopeptide Trichogin GA IV As Revealed by EPR. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5653-5660.	1.2	24
25	Turn stabilization in short peptides by C α -methylated β -amino acids. <i>Biopolymers</i> , 2005, 80, 279-293.	1.2	23
26	Isovaline in naturally occurring peptides: A nondestructive methodology for configurational assignment. <i>Biopolymers</i> , 2012, 98, 36-49.	1.2	21
27	Total Synthesis, Characterization, and Conformational Analysis of the Naturally Occurring Hexadecapeptide Integramide A and a Diastereomer. <i>Chemistry - A European Journal</i> , 2010, 16, 316-327.	1.7	20
28	Peptides on the Surface: Spin-Label EPR and PELDOR Study of Adsorption of the Antimicrobial Peptides Trichogin GA IV and Ampullosporin A on the Silica Nanoparticles. <i>Applied Magnetic Resonance</i> , 2016, 47, 309-320.	0.6	20
29	Crystal-state 3D-structural characterization of novel, Aib-based, turn and helical peptides. <i>Journal of Peptide Science</i> , 2007, 13, 190-205.	0.8	19
30	The peculiar N- and C-termini of trichogin GA IV are needed for membrane interaction and human cell death induction at doses lacking antibiotic activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 134-144.	1.4	19
31	Peptide antibiotic trichogin in model membranes: Self-association and capture of fatty acids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 524-531.	1.4	17
32	Synthesis, Preferred Conformation, and Membrane Activity of Medium-length Peptaibiotics: Tylopeptin B. <i>Chemical Biology and Drug Design</i> , 2010, 75, 169-181.	1.5	16
33	Synthesis and Conformational Study of Model Peptides Containing N-Substituted β -Aminoazetidine- β -carboxylic Acids. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2312-2321.	1.2	16
34	Light-Induced Triplet-Triplet Electron Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 80-85.	2.1	16
35	Serendipitous Discovery of Peptide Dialkyl Peroxides. <i>Helvetica Chimica Acta</i> , 2002, 85, 3099-3112.	1.0	15
36	Central-to-axial chirality transfer and induced circular dichroism in 6,7-dihydro-5H-dibenz[c,e]azepine derivatives of β - and γ -amino esters. <i>Tetrahedron Letters</i> , 2008, 49, 3475-3479.	0.7	15

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37	Conformational Properties of the Spin-Labeled Tylopeptin B and Heptaibin Peptaibiotics Based on PELDOR Spectroscopy Data. <i>Applied Magnetic Resonance</i> , 2013, 44, 495-508.	0.6	14
38	Analogues of a Natural Peptaibol Exert Anticancer Activity in Both Cisplatin- and Doxorubicin-Resistant Cells and in Multicellular Tumor Spheroids. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8362.	1.8	13
39	A new approach to detect and study ion channel formation in microBLMs. <i>Electrochemistry Communications</i> , 2011, 13, 834-836.	2.3	12
40	The N-Terminal Nonapeptide of Cephaibols A and C: A Naturally Occurring Example of Mismatched Helical Screw-Sense Control. <i>Chemistry - A European Journal</i> , 2013, 19, 16357-16365.	1.7	12
41	Configurational Assignment of D- and L-Isovalines in Intact, Natural, and Synthetic Peptides by 2D-NMR Spectroscopy. <i>Chemistry and Biodiversity</i> , 2010, 7, 1612-1624.	1.0	11
42	Complete Absolute Configuration of Integramide A, a Natural, 16-Mer Peptide Inhibitor of HIV-1 Integrase, Elucidated by Total Synthesis. <i>ChemBioChem</i> , 2009, 10, 87-90.	1.3	10
43	Partial thioamide scan on the lipopeptaibiotic trichogin GA IV. Effects on folding and bioactivity. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1161-1171.	1.3	10
44	Tuning the Morphology of Nanostructured Peptide Films by the Introduction of a Secondary Structure Conformational Constraint: A Case Study of Hierarchical Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6305-6313.	1.2	10
45	Trichogin GA IV Alignment and Oligomerization in Phospholipid Bilayers. <i>ChemBioChem</i> , 2019, 20, 2141-2150.	1.3	10
46	Building Supramolecular DNA-Inspired Nanowires on Gold Surfaces: From 2D to 3D. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7308-7312.	7.2	10
47	Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors. <i>Frontiers in Chemistry</i> , 2019, 7, 170.	1.8	10
48	4-Cyano-L-methyl-phenylalanine as a Spectroscopic Marker for the Investigation of Peptaibiotic-Membrane Interactions. <i>Chemistry and Biodiversity</i> , 2015, 12, 513-527.	1.0	9
49	Alamethicin self-assembling in lipid membranes: concentration dependence from pulsed EPR of spin labels. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3592-3601.	1.3	9
50	Extended Diethylglycine Homopeptides Formed by Desulfurization of Their Tetrahydrothiopyran Analogues. <i>Organic Letters</i> , 2019, 21, 2209-2212.	2.4	9
51	Transcriptomic and Ultrastructural Analyses of <i>Pyricularia Oryzae</i> Treated With Fungicidal Peptaibol Analogues of <i>Trichoderma Trichogin</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 753202.	1.5	9
52	Tuning morphological architectures generated through living supramolecular assembly of a helical foldamer end-capped with two complementary nucleobases. <i>Soft Matter</i> , 2017, 13, 4231-4240.	1.2	8
53	Low-Temperature Dynamical Transition in Lipid Bilayers Detected by Spin-Label ESE Spectroscopy. <i>Applied Magnetic Resonance</i> , 2018, 49, 1369-1383.	0.6	8
54	Tylopeptin B peptide antibiotic in lipid membranes at low concentrations: Self-assembling, mutual repulsion and localization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183585.	1.4	8

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55	Water-Soluble Trichogin GA IV-Derived Peptaibols Protect Tomato Plants From <i>Botrytis cinerea</i> Infection With Limited Impact on Plant Defenses. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	8
56	Comparison of distance information in [TOAC ¹ , Glu(OMe) ^{7, 18, 19}] alamethicin F50/5 from paramagnetic relaxation enhancement measurements with data obtained from an X-ray diffraction-based model. <i>Journal of Peptide Science</i> , 2011, 17, 377-382.	0.8	7
57	Aggregation modes of the spin mono-labeled tylopeptin B and heptaibin peptaibiotics in frozen solutions of weak polarity as studied by PELDOR spectroscopy. <i>Journal of Structural Chemistry</i> , 2013, 54, 73-85.	0.3	7
58	Spectroscopically Labeled Peptaibiotics. Synthesis and Properties of Selected Trichogin GA IV Analogs Bearing a Side-Chain-Monofluorinated Aromatic Amino Acid for ¹⁹ F-NMR Analysis. <i>Chemistry and Biodiversity</i> , 2013, 10, 904-919.	1.0	7
59	3D Structure, Dynamics, and Activity of Synthetic Analog of the Peptaibiotic Trichodecenin I. <i>Chemistry and Biodiversity</i> , 2013, 10, 887-903.	1.0	7
60	Electrophysiology Investigation of Trichogin GA IV Activity in Planar Lipid Membranes Reveals Ion Channels of Well-Defined Size. <i>Chemistry and Biodiversity</i> , 2014, 11, 1069-1077.	1.0	7
61	Molecular Sponge: pH-Driven Reversible Squeezing of Stimuli-Sensitive Peptide Monolayers. <i>Langmuir</i> , 2019, 35, 4813-4824.	1.6	7
62	Synthesis, Ion Complexation Study, and 3D Structural Analysis of Peptides Based on Crown-Carrier, <i>p</i> -C-Methyl-L-DOPA Amino Acids. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1224-1241.	1.2	6
63	Spectroscopically labeled peptaibiotic analogs: the 4-nitrophenylalanine infrared absorption probe inserted at different positions into trichogin GA IV. <i>Journal of Peptide Science</i> , 2013, 19, 246-256.	0.8	6
64	The fluorescence and infrared absorption probe <i>p</i> -cyanophenylalanine: Effect of labeling on the behavior of different membrane-interacting peptides. <i>Biopolymers</i> , 2015, 104, 521-532.	1.2	6
65	Shaping bioinspired photo-responsive microstructures by the light-driven modulation of selective interactions. <i>RSC Advances</i> , 2016, 6, 73650-73659.	1.7	6
66	Synthesis of Intrinsically Blue-Colored <i>bis</i> -Nitronyl Nitroxide Peptidomimetic Templates and Their Conformational Preferences as Revealed by a Combined Spectroscopic Analysis. <i>Journal of Organic Chemistry</i> , 2017, 82, 10033-10042.	1.7	6
67	Conformational properties, membrane interaction, and antibacterial activity of the peptaibiotic chalciporin A: Multitechnique spectroscopic and biophysical investigations on the natural compound and labeled analogs. <i>Peptide Science</i> , 2018, 110, e23083.	1.0	6
68	A pH-Induced Reversible Conformational Switch Able to Control the Photocurrent Efficiency in a Peptide Supramolecular System. <i>Chemistry - A European Journal</i> , 2021, 27, 2810-2817.	1.7	6
69	The enantioselectivity of reduction of ethyl 4-halo-3-oxobutanoate catalyzed by <i>Geotrichum candidum</i> depends on the cofactor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 63-66.	1.8	5
70	Total Synthesis of Septocylindrin B and C-Terminus Modified Analogues. <i>PLoS ONE</i> , 2012, 7, e51708.	1.1	5
71	A Quaternary Nitronyl Nitroxide \pm -Amino Acid: Synthesis, Configurational and Conformational Assignments, and Physicochemical Properties. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1741-1752.	1.2	5
72	Solution Synthesis, Conformational Analysis, and Antimicrobial Activity of Three Alamethicin F50/5 Analogs Bearing a Trifluoroacetyl Label. <i>Chemistry and Biodiversity</i> , 2014, 11, 1163-1191.	1.0	5

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73	Endothiopeptides: A conformational overview. <i>Biopolymers</i> , 2016, 106, 697-713.	1.2	5
74	Comparison of bactericidal and cytotoxic activities of trichogin analogs. <i>Data in Brief</i> , 2016, 6, 359-367.	0.5	5
75	The several facets of Trichogin GA IV: High affinity Tb(III) binding properties. A spectroscopic and molecular dynamics simulation study. <i>Peptide Science</i> , 2018, 110, e24081.	1.0	5
76	Controlling the Formation of Peptide Films: Fully Developed Helical Peptides are Required to Obtain a Homogenous Coating over a Large Area. <i>ChemPlusChem</i> , 2019, 84, 1688-1696.	1.3	5
77	Electron spin echo detection of stochastic molecular librations: Non-cooperative motions on solid surface. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106621.	1.2	5
78	ESE-Detected Molecular Motions of Spin-Labeled Molecules on a Solid Inorganic Surface: Motional Models and Onset Temperatures. <i>Applied Magnetic Resonance</i> , 2020, 51, 1019-1029.	0.6	5
79	N-Methylation of N ^ε -Acetylated, Fully C ^β -Ethylated, Linear Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2008, 14, 307-314.	0.9	4
80	Synthesis of enantiopure, axially chiral, C ^β -tetrasubstituted α -amino acids with binaphthyl-based crowned side chains and 3D-structural analysis of their peptides. <i>Tetrahedron</i> , 2008, 64, 2307-2320.	1.0	4
81	Design of lipidic platforms anchored within nanometric cavities by peptide hooks. <i>RSC Advances</i> , 2016, 6, 46984-46993.	1.7	4
82	Triple Hyp ^ε Pro replacement in integramide A, a peptaib inhibitor of HIV ¹ integrase: Effect on conformation and bioactivity. <i>Biopolymers</i> , 2011, 96, 49-59.	1.2	3
83	Insights into peptide-membrane interactions of newly synthesized, nitroxide-containing analogs of the peptaibiotic trichogin GA _{IV} using EPR. <i>Biopolymers</i> , 2017, 108, e22913.	1.2	3
84	A Temperature-Driven, Reversible, Helical-Handedness Inversion in Peptaibol Analogues Tuned by the C-Terminal Capping Moiety. <i>ChemBioChem</i> , 2019, 20, 2125-2132.	1.3	3
85	Energetics of oxo- and thio-dipeptide formation via amino acid condensation: a systematic computational analysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17515.	1.3	2
86	Building Supramolecular DNA-Inspired Nanowires on Gold Surfaces: From 2D to 3D. <i>Angewandte Chemie</i> , 2019, 131, 7386-7390.	1.6	2
87	Sustainable Methods to Control <i>Pyricularia oryzae</i> , the Causal Agent of Rice Blast Disease. <i>UNIPA Springer Series</i> , 2021, , 67-82.	0.1	2
88	Peptide-membrane binding is not enough to explain bioactivity: A case study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183978.	1.4	2
89	Membrane Perturbing Effects of Antimicrobial Peptides: A Systematic Spectroscopic Analysis. <i>Biophysical Journal</i> , 2013, 104, 600a-601a.	0.2	0
90	Left-Handed Helical Preference in an Achiral Peptide Chain is Induced by an L-Amino Acid in an N-Terminal Type II β -Turn. , 2013, , .		0

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91	Novel peptide-based control measures against the rice fungal pathogen <i>Pyricularia oryzae</i> . , 0, , .		0
92	A Peptide-Based Trap for Metal Ions Studied by Electron Paramagnetic Resonance. <i>Chemosensors</i> , 2022, 10, 71.	1.8	0
93	Bloody spin: I caught you at last. <i>Biophysical Journal</i> , 2022, , .	0.2	0