

# Lucie Bednářová

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,782  
citations

304368

22  
h-index

276539

41  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfer of molecular property tensors in cartesian coordinates: A new algorithm for simulation of vibrational spectra. <i>Journal of Computational Chemistry</i> , 1997, 18, 646-659.	1.5	224
2	Rapid Access to Dibenzohelicenes and their Functionalized Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9970-9975.	7.2	137
3	An Ultimate Stereocontrol in Asymmetric Synthesis of Optically Pure Fully Aromatic Helicenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8469-8474.	6.6	97
4	Lasioglossins: Three Novel Antimicrobial Peptides from the Venom of the Eusocial Bee <i>Lasioglossum laticeps</i> (Hymenoptera: Halictidae). <i>ChemBioChem</i> , 2009, 10, 2089-2099.	1.3	81
5	Chimerical Pyrene-Based [7]Helicenes as Twisted Polycondensed Aromatics. <i>Chemistry - A European Journal</i> , 2015, 21, 8910-8917.	1.7	77
6	Intense Chiroptical Switching in a Dicationic Helicene-Like Derivative: Exploration of a Viologen-Type Redox Manifold of a Non-Racemic Helquat. <i>Journal of the American Chemical Society</i> , 2014, 136, 10826-10829.	6.6	74
7	Random protein sequences can form defined secondary structures and are well-tolerated in vivo. <i>Scientific Reports</i> , 2017, 7, 15449.	1.6	68
8	Oxahelicene NHC ligands in the asymmetric synthesis of nonracemic helicenes. <i>Chemical Communications</i> , 2017, 53, 4370-4373.	2.2	64
9	Anharmonic effects in IR, Raman, and Raman optical activity spectra of alanine and proline zwitterions. <i>Journal of Chemical Physics</i> , 2007, 126, 224513.	1.2	61
10	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5839-5843.	7.2	61
11	Novel antimicrobial peptides from the venom of the eusocial bee <i>Halictus sexcinctus</i> (Hymenoptera: Tj ETQq1 1 0.784314 rgBT /Overdo	1.2	56
12	Urea and Guanidinium Induced Denaturation of a Trp-Cage Miniprotein. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8910-8924.	1.2	56
13	Lucifensin, a Novel Insect Defensin of Medicinal Maggots: Synthesis and Structural Study. <i>ChemBioChem</i> , 2011, 12, 1352-1361.	1.3	45
14	[2+2+2] Cycloisomerisation of Aromatic Cyanodiyne in the Synthesis of Pyridohelicenes and Their Analogues. <i>Chemistry - A European Journal</i> , 2016, 22, 14401-14405.	1.7	41
15	Silychristin: Skeletal Alterations and Biological Activities. <i>Journal of Natural Products</i> , 2016, 79, 3086-3092.	1.5	38
16	Spectroscopic properties of the nonplanar amide group: A computational study. <i>Chirality</i> , 2007, 19, 775-786.	1.3	37
17	Asymmetric Synthesis of Nonracemic 2-Amino[6]helicenes and Their Self-Assembly into Langmuir Films. <i>Journal of Organic Chemistry</i> , 2018, 83, 5523-5538.	1.7	35
18	Helicenes as Chirality-Inducing Groups in Transition-Metal Catalysis: The First Helically Chiral Olefin Metathesis Catalyst. <i>Chemistry - A European Journal</i> , 2018, 24, 10994-10998.	1.7	32

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19	Intense redox-driven chiroptical switching with a 580 mV hysteresis actuated through reversible dimerization of an azoniahelicene. <i>Chemical Communications</i> , 2017, 53, 9059-9062.	2.2	31
20	Antimicrobial Peptide from the Wild Bee <i>Hylaeus signatus</i> Venom and Its Analogues: Structure-Activity Study and Synergistic Effect with Antibiotics. <i>Journal of Natural Products</i> , 2016, 79, 1073-1083.	1.5	29
21	PIP2 and PIP3 interact with N-terminus region of TRPM4 channel. <i>Biophysical Chemistry</i> , 2015, 205, 24-32.	1.5	25
22	Synthesis of Long Oxahelicenes by Polycyclization in a Flow Reactor. <i>Angewandte Chemie</i> , 2017, 129, 5933-5937.	1.6	22
23	Asymmetric Synthesis of Diastereo- and Enantiopure Bioxahelicene 2,2'-Bipyridines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5164-5178.	1.2	22
24	Interaction of a novel antimicrobial peptide isolated from the venom of solitary bee <i>Colletes daviesanus</i> with phospholipid vesicles and <i>Escherichia coli</i> cells. <i>Journal of Peptide Science</i> , 2014, 20, 885-895.	0.8	21
25	Lasiocepsin, a novel cyclic antimicrobial peptide from the venom of eusocial bee <i>Lasioglossum laticeps</i> (Hymenoptera: Halictidae). <i>Amino Acids</i> , 2012, 43, 751-761.	1.2	19
26	Enzymatic synthesis of hypermodified DNA polymers for sequence-specific display of four different hydrophobic groups. <i>Nucleic Acids Research</i> , 2020, 48, 11982-11993.	6.5	19
27	Effect of palmitoylated prolactin-releasing peptide on food intake and neural activation after different routes of peripheral administration in rats. <i>Peptides</i> , 2016, 75, 109-117.	1.2	18
28	Disulfide chromophore and its optical activity. <i>Chirality</i> , 2010, 22, E47-55.	1.3	17
29	Stabilization of hyaluronan-based materials by peptide conjugation and its use as a cell-seeded scaffold in tissue engineering. <i>Carbohydrate Polymers</i> , 2018, 201, 300-307.	5.1	16
30	Vibrational and electronic optical activity of the chiral disulphide group: Implications for disulphide bridge conformation. <i>Chirality</i> , 2010, 22, 514-526.	1.3	15
31	Role of Mason-Pfizer Monkey Virus CA-NC Spacer Peptide-Like Domain in Assembly of Immature Particles. <i>Journal of Virology</i> , 2014, 88, 14148-14160.	1.5	15
32	Synthesis of Racemic, Diastereopure, and Enantiopure Carba- or Oxa[5]-, [6]-, [7]-, and -[19]helicene (Di)thiol Derivatives. <i>Journal of Organic Chemistry</i> , 2020, 85, 248-276.	1.7	15
33	Enzyme catalysis prior to aromatic residues: Reverse engineering of a dephospho-CoA kinase. <i>Protein Science</i> , 2021, 30, 1022-1034.	3.1	15
34	In Vitro Evolution Reveals Noncationic Protein-RNA Interaction Mediated by Metal Ions. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	13
35	Shared Ca <sup>2+</sup> - and S100A1-binding epitopes in the distal TRPM4 N terminus. <i>FEBS Journal</i> , 2018, 285, 599-613.	2.2	12
36	Interaction of Halictine-Related Antimicrobial Peptides with Membrane Models. <i>International Journal of Molecular Sciences</i> , 2019, 20, 631.	1.8	12

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37	Rhodium-Catalyzed Enantioselective Synthesis of Highly Fluorescent and CPL-Active Spiroindeno[2,1-c]fluorenes. <i>Chemistry - A European Journal</i> , 2021, 27, 11279-11284.	1.7	11
38	Chirality-Controlled Self-Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuir-Blodgett Thin Films. <i>Chemistry - A European Journal</i> , 2019, 25, 11494-11502.	1.7	10
39	Electronic and vibrational optical activity of several peptides related to neurohypophyseal hormones: Disulfide group conformation. <i>Biopolymers</i> , 2012, 97, 923-932.	1.2	9
40	Characterization of the part of N-terminal PIP2 binding site of the TRPM1 channel. <i>Biophysical Chemistry</i> , 2015, 207, 135-142.	1.5	9
41	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
42	The characterization of a novel S100A1 binding site in the N-terminus of TRPM1. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 78, 186-193.	1.2	7
43	Diquats with Robust Chirality: Facile Resolution, Synthesis of Chiral Dyes, and Application as Selectors in Chiral Analysis. <i>Chemistry - A European Journal</i> , 2018, 24, 7601-7604.	1.7	7
44	Structural and Functional Studies of Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2015, 10, e0120682.	1.1	7
45	Synthesis of lucifensin by native chemical ligation and characteristics of its isomer having different disulfide bridge pattern. <i>Journal of Peptide Science</i> , 2014, 20, 725-735.	0.8	6
46	Synthesis of (Di)thiahelicenes and Dithiophenohelicenes by [2+2+2] Cycloisomerisation of Alkynes. <i>Helvetica Chimica Acta</i> , 0, , .	1.0	6
47	Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. <i>Langmuir</i> , 2018, 34, 6997-7005.	1.6	5
48	Chiroptical Redox Switching of Tetra-cationic Derivatives of Azoniahelicenes. <i>ChemElectroChem</i> , 2019, 6, 3002-3008.	1.7	5
49	Characterization and <i>in vitro</i> assembly of tick-borne encephalitis virus C protein. <i>FEBS Letters</i> , 2020, 594, 1989-2004.	1.3	5
50	Electronic Circular Dichroism of the Chiral Rigid Tricyclic Dilactam with Nonplanar Tertiary Amide Groups. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11100-11108.	1.2	4
51	Artificial proteins as allosteric modulators of PDZ3 and SH3 in two-domain constructs: A computational characterization of novel chimeric proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1358-1374.	1.5	4
52	Dynamics of lipid layers with/without bounded antimicrobial peptide halictine-1. <i>Vibrational Spectroscopy</i> , 2017, 93, 42-51.	1.2	2
53	<sup>31</sup> P NMR parameters may facilitate the stereochemical analysis of phosphorus-containing compounds. <i>Journal of Magnetic Resonance</i> , 2022, 336, 107149.	1.2	2
54	Chiroptical Properties and Conformation of Four Lasiocapsin-Related Antimicrobial Peptides: Structural Role of Disulfide Bridges. <i>Symmetry</i> , 2020, 12, 812.	1.1	1

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55	The order of PDZ3 and TrpCage in fusion chimeras determines their properties—a biophysical characterization. <i>Protein Science</i> , 2021, 30, 1653-1666.	3.1	1
56	Chiroptical Redox Switching of Tetra-cationic Derivatives of Azoniahelicenes. <i>ChemElectroChem</i> , 2019, 6, 2969-2969.	1.7	0
57	Chirality-Controlled Self-Assembly of Amphiphilic Dibenzo[6]helicenes into Langmuir-Blodgett Thin Films. <i>Chemistry - A European Journal</i> , 2019, 25, 11393-11393.	1.7	0