

# SÃ©verine Zirah

## List of Publications by Year in descending order

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71  
papers

3,661  
citations

159585

30  
h-index

133252

59  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the Potential and Synergetic Effects of Microcins against Multidrug-Resistant <i>Enterobacteriaceae</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0275221.	3.0	9
2	Untangling the fibre ball: Proteomic characterization of South American camelid hair fibres by untargeted multivariate analysis and molecular networking. <i>Journal of Proteomics</i> , 2021, 231, 104040.	2.4	8
3	Gastrointestinal Stability and Cytotoxicity of Bacteriocins From Gram-Positive and Gram-Negative Bacteria: A Comparative in vitro Study. <i>Frontiers in Microbiology</i> , 2021, 12, 780355.	3.5	15
4	Palaeoproteomics gives new insight into early southern African pastoralism. <i>Scientific Reports</i> , 2020, 10, 14427.	3.3	17
5	Bacteriocins to Thwart Bacterial Resistance in Gram Negative Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 586433.	3.5	49
6	Phenomic and genomic approaches to studying the inhibition of multiresistant <i>Salmonella enterica</i> by microcin J25. <i>Environmental Microbiology</i> , 2020, 22, 2907-2920.	3.8	21
7	Microcin J25 Exhibits Inhibitory Activity Against <i>Salmonella</i> Newport in Continuous Fermentation Model Mimicking Swine Colonic Conditions. <i>Frontiers in Microbiology</i> , 2020, 11, 988.	3.5	14
8	Animal fibre use in the Keriya valley (Xinjiang, China) during the Bronze and Iron Ages: A proteomic approach. <i>Journal of Archaeological Science</i> , 2019, 110, 104996.	2.4	13
9	Time resolved transient circular dichroism spectroscopy using synchrotron natural polarization. <i>Structural Dynamics</i> , 2019, 6, 054307.	2.3	14
10	Evidence of Cis-Trans-Isomerization at Pro7/Pro16 in the Lasso Peptide Microcin J25. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1038-1045.	2.8	12
11	Binding Specificity of Native Odorant-Binding Protein Isoforms Is Driven by Phosphorylation and O-N-Acetylglucosinylation in the Pig <i>Sus scrofa</i> . <i>Frontiers in Endocrinology</i> , 2019, 9, 816.	3.5	14
12	Structural signatures of the class III lasso peptide Bl-32169 and the branched-cyclic topoisomers using trapped ion mobility spectrometry-mass spectrometry and tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6287-6296.	3.7	20
13	Toward a versatile protocol for radiocarbon and proteomics analysis of ancient collagen. <i>Journal of Archaeological Science</i> , 2019, 101, 1-10.	2.4	8
14	Complete Genome Sequences of Four <i>Microbacterium</i> Strains Isolated from Metal- and Radionuclide-Rich Soils. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	3
15	$\hat{2}, \hat{3}$ -diamino acids as building blocks for new analogues of Gramicidin S: Synthesis and biological activity. <i>European Journal of Medicinal Chemistry</i> , 2018, 149, 122-128.	5.5	19
16	General rules of fragmentation evidencing lasso structures in CID and ETD. <i>Analyst</i> , The, 2018, 143, 1157-1170.	3.5	27
17	Metal ions induced secondary structure rearrangements: mechanically interlocked lasso vs. unthreaded branched-cyclic topoisomers. <i>Analyst</i> , The, 2018, 143, 2323-2333.	3.5	12
18	Identification of Lasso Peptide Topologies Using Native Nano-electrospray Ionization-Trapped Ion Mobility Spectrometry-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 5139-5146.	6.5	34

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19	Identification of degraded bone and tooth splinters from arid environments using palaeoproteomics. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 511, 472-482.	2.3	14
20	An orthogonal system for heterologous expression of actinobacterial lasso peptides in <i>Streptomyces</i> hosts. <i>Scientific Reports</i> , 2018, 8, 8232.	3.3	30
21	Structural Basis for Natural Product Selection and Export by Bacterial ABC Transporters. <i>ACS Chemical Biology</i> , 2018, 13, 1598-1609.	3.4	33
22	Pyrolysis comprehensive gas chromatography and mass spectrometry: A new tool to assess the purity of ancient collagen prior to radiocarbon dating. <i>Analytica Chimica Acta</i> , 2018, 1041, 131-145.	5.4	20
23	Fate and Biological Activity of the Antimicrobial Lasso Peptide Microcin J25 Under Gastrointestinal Tract Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 1764.	3.5	47
24	Synthesis, antimicrobial activity and conformational analysis of the class IIa bacteriocin pediocin PA-1 and analogs thereof. <i>Scientific Reports</i> , 2018, 8, 9029.	3.3	65
25	Novel Mechanism for Surface Layer Shedding and Regenerating in Bacteria Exposed to Metal-Contaminated Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 3210.	3.5	8
26	Collagen Extraction and Stable Isotope Analysis of Small Vertebrate Bones: A Comparative Approach. <i>Radiocarbon</i> , 2017, 59, 679-694.	1.8	35
27	Structural basis for antibacterial peptide self-immunity by the bacterial ABC transporter McjD. <i>EMBO Journal</i> , 2017, 36, 3062-3079.	7.8	64
28	Radiocarbon dating minute amounts of bone (3â€“60â€“mg) with ECHoMICADAS. <i>Scientific Reports</i> , 2017, 7, 7141.	3.3	24
29	Signatures of Mechanically Interlocked Topology of Lasso Peptides by Ion Mobilityâ€“Mass Spectrometry: Lessons from a Collection of Representatives. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 315-322.	2.8	17
30	Furanoterpene Diversity and Variability in the Marine Sponge <i>Spongia officinalis</i> , from Untargeted LCâ€“MS/MS Metabolomic Profiling to Furanolactam Derivatives. <i>Metabolites</i> , 2017, 7, 27.	2.9	11
31	Deconjugated Bile Salts Produced by Extracellular Bile-Salt Hydrolase-Like Activities from the Probiotic <i>Lactobacillus johnsonii</i> La1 Inhibit <i>Giardia duodenalis</i> In vitro Growth. <i>Frontiers in Microbiology</i> , 2016, 7, 1453.	3.5	62
32	Initial Molecular Recognition Steps of McjA Precursor during Microcin J25 Lasso Peptide Maturation. <i>ChemBioChem</i> , 2016, 17, 1851-1858.	2.6	6
33	Structural and Functional Basis for Lipid Synergy on the Activity of the Antibacterial Peptide ABC Transporter McjD. <i>Journal of Biological Chemistry</i> , 2016, 291, 21656-21668.	3.4	33
34	Preservation of Archaeal Surface Layer Structure During Mineralization. <i>Scientific Reports</i> , 2016, 6, 26152.	3.3	52
35	IRMPD Spectroscopy: Evidence of Hydrogen Bonding in the Gas Phase Conformations of Lasso Peptides and their Branched-Cyclic Topoisomers. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3810-3816.	2.5	15
36	Gasâ€“phase conformations of capistrain â€“ comparison of lasso, branchedâ€“cyclic and linear topologies. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1411-1419.	1.5	11

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37	Ion Mobility��Mass Spectrometry of Lasso Peptides: Signature of a Rotaxane Topology. <i>Analytical Chemistry</i> , 2015, 87, 1166-1172.	6.5	48
38	Sponging up metals: Bacteria associated with the marine sponge <i>Spongia officinalis</i> . <i>Marine Environmental Research</i> , 2015, 104, 20-30.	2.5	56
39	Characterization of Svceucin from <i>Streptomyces</i> Provides Insight into Enzyme Exchangeability and Disulfide Bond Formation in Lasso Peptides. <i>ACS Chemical Biology</i> , 2015, 10, 2641-2649.	3.4	73
40	Electron detachment/photodetachment dissociation of lasso peptides. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 91-100.	1.5	2
41	Biosynthesis, Regulation and Export of Lasso Peptides. <i>SpringerBriefs in Microbiology</i> , 2015, , 81-95.	0.1	1
42	Introduction: A Review of Lasso Peptide Research. <i>SpringerBriefs in Microbiology</i> , 2015, , 1-6.	0.1	0
43	Biological Activities of Lasso Peptides and Structure��Activity Relationships. <i>SpringerBriefs in Microbiology</i> , 2015, , 37-79.	0.1	1
44	Lasso Peptide Bioengineering and Bioprospecting. <i>SpringerBriefs in Microbiology</i> , 2015, , 97-103.	0.1	0
45	From the Producer Microorganisms to the Lasso Scaffold. <i>SpringerBriefs in Microbiology</i> , 2015, , 7-35.	0.1	0
46	Structure of an antibacterial peptide ATP-binding cassette transporter in a novel outward occluded state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9145-9150.	7.1	178
47	Thiazole��Based Building Blocks as Reverse��Turn Mimetic to Design a Gramicidin��S Analogue: Conformational and Biological Evaluation. <i>Chemistry - A European Journal</i> , 2014, 20, 6713-6720.	3.3	36
48	Structural basis for hijacking siderophore receptors by antimicrobial lasso peptides. <i>Nature Chemical Biology</i> , 2014, 10, 340-342.	8.0	78
49	Prompt and Slow Electron��Detachment��Dissociation/Electron��Photodetachment��Dissociation of a 21��Mer Peptide. <i>Chemistry - A European Journal</i> , 2013, 19, 350-357.	3.3	2
50	Isolation and Characterization of Environmental Bacteria Capable of Extracellular Biosorption of Mercury. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1097-1106.	3.1	195
51	Unprecedented Occurrence of Isoaspartic Acid in a Plant Cyclopeptide. <i>Organic Letters</i> , 2012, 14, 576-579.	4.6	7
52	Determination of Peptide Topology through Time-Resolved Double-Resonance under Electron Capture Dissociation Conditions. <i>Analytical Chemistry</i> , 2012, 84, 4957-4964.	6.5	20
53	Dissecting the Maturation Steps of the Lasso Peptide Microcin J25 in vitro. <i>ChemBioChem</i> , 2012, 13, 1046-1052.	2.6	106
54	Sequence Determinants Governing the Topology and Biological Activity of a Lasso Peptide, Microcin J25. <i>ChemBioChem</i> , 2012, 13, 371-380.	2.6	62

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55	Topoisomer Differentiation of Molecular Knots by FTICR MS: Lessons from Class II Lasso Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 467-479.	2.8	38
56	Post-Translational Modification and folding of A Lasso-Type Gene-Encoded Antimicrobial Peptide Require Two Enzymes only in <i>Escherichia coli</i> . <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 35-36.	1.6	7
57	Biosynthesis of Siderophore-Peptides, A Class of Potent Antimicrobial Peptides from Enterobacteria, Requires Two Precursors. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 33-34.	1.6	0
58	Collision induced dissociation-based characterization of nucleotide peptides: Fragmentation patterns of microcin C7â€“C51, an antimicrobial peptide produced by <i>Escherichia coli</i> . <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1187-1198.	2.8	7
59	Isolation and Structural Characterization of Capistruin, a Lasso Peptide Predicted from the Genome Sequence of <i>Burkholderia thailandensis</i> E264. <i>Journal of the American Chemical Society</i> , 2008, 130, 11446-11454.	13.7	220
60	Combined proteomic and metabonomic studies in three genetic forms of the renal Fanconi syndrome. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F456-F467.	2.7	55
61	A topâ€“down systems biology view of microbiomeâ€“mammalian metabolic interactions in a mouse model. <i>Molecular Systems Biology</i> , 2007, 3, 112.	7.2	420
62	Insight into Siderophore-Carrying Peptide Biosynthesis: Enterobactin Is a Precursor for Microcin E492 Posttranslational Modification. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3546-3553.	3.2	36
63	Two Enzymes Catalyze the Maturation of a Lasso Peptide in <i>Escherichia coli</i> . <i>Chemistry and Biology</i> , 2007, 14, 793-803.	6.0	130
64	Experimental and Analytical Variation in Human Urine in <sup>1</sup> H NMR Spectroscopy-Based Metabolic Phenotyping Studies. <i>Analytical Chemistry</i> , 2007, 79, 5204-5211.	6.5	110
65	Statistical Heterospectroscopy, an Approach to the Integrated Analysis of NMR and UPLC-MS Data Sets:â€“ Application in Metabonomic Toxicology Studies. <i>Analytical Chemistry</i> , 2006, 78, 363-371.	6.5	330
66	Statistical Search Space Reduction and Two-Dimensional Data Display Approaches for UPLCâ€“MS in Biomarker Discovery and Pathway Analysis. <i>Analytical Chemistry</i> , 2006, 78, 4398-4408.	6.5	52
67	Structural Changes of Region 1-16 of the Alzheimer Disease Amyloid $\beta$ -Peptide upon Zinc Binding and in Vitro Aging. <i>Journal of Biological Chemistry</i> , 2006, 281, 2151-2161.	3.4	284
68	Zinc binding agonist effect on the recognition of the $\beta$ -amyloid (4â€“10) epitope by anti- $\beta$ -amyloid antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 324-328.	2.1	27
69	Zinc binding properties of the amyloid fragment $\beta$ (1â€“16) studied by electrospray-ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 999-1016.	1.5	67
70	Zinc Binding to Alzheimer's $\beta$ (1â€“16) Peptide Results in Stable Soluble Complex. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 959-964.	2.1	129
71	Synthesis and antimicrobial activity of the bacteriocin pediocin PA-1 and analogs thereof. , 0, ,		0