

Volker Herzig

List of Publications by Year in descending order

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85
papers

3,485
citations

136950

32
h-index

149698

56
g-index

93
all docs

93
docs citations

93
times ranked

2828
citing authors

#	ARTICLE	IF	CITATIONS
1	Spider-Venom Peptides as Therapeutics. <i>Toxins</i> , 2010, 2, 2851-2871.	3.4	251
2	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. <i>Nature</i> , 2016, 534, 494-499.	27.8	239
3	Spider-venom peptides that target voltage-gated sodium channels: Pharmacological tools and potential therapeutic leads. <i>Toxicon</i> , 2012, 60, 478-491.	1.6	202
4	Spider-Venom Peptides as Bioinsecticides. <i>Toxins</i> , 2012, 4, 191-227.	3.4	190
5	ArachnoServer 2.0, an updated online resource for spider toxin sequences and structures. <i>Nucleic Acids Research</i> , 2011, 39, D653-D657.	14.5	159
6	Pharmacological characterisation of the highly NaV1.7 selective spider venom peptide Pn3a. <i>Scientific Reports</i> , 2017, 7, 40883.	3.3	120
7	The insecticidal potential of venom peptides. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 3665-3693.	5.4	110
8	Selective Na ^V 1.1 activation rescues Dravet syndrome mice from seizures and premature death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8077-E8085.	7.1	105
9	Effects of MPEP on locomotion, sensitization and conditioned reward induced by cocaine or morphine. <i>Neuropharmacology</i> , 2004, 47, 973-984.	4.1	98
10	Animal toxins – Nature’s evolutionary-refined toolkit for basic research and drug discovery. <i>Biochemical Pharmacology</i> , 2020, 181, 114096.	4.4	97
11	The Cystine Knot Is Responsible for the Exceptional Stability of the Insecticidal Spider Toxin ω -Hexatoxin-Hv1a. <i>Toxins</i> , 2015, 7, 4366-4380.	3.4	86
12	ArachnoServer 3.0: an online resource for automated discovery, analysis and annotation of spider toxins. <i>Bioinformatics</i> , 2018, 34, 1074-1076.	4.1	86
13	Seven novel modulators of the analgesic target Na ^V 1.7 uncovered using a high-throughput venom-based discovery approach. <i>British Journal of Pharmacology</i> , 2015, 172, 2445-2458.	5.4	74
14	Identification and Characterization of ProTx-III [ω -TRTX-Tp1a], a New Voltage-Gated Sodium Channel Inhibitor from Venom of the Tarantula <i>Thrixopelma pruriens</i> . <i>Molecular Pharmacology</i> , 2015, 88, 291-303.	2.3	72
15	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. <i>Cell</i> , 2019, 178, 1362-1374.e16.	28.9	72
16	A Proteomics and Transcriptomics Investigation of the Venom from the Barychelid Spider <i>Trittame loki</i> (Brush-Foot Trapdoor). <i>Toxins</i> , 2013, 5, 2488-2503.	3.4	68
17	The assassin bug <i>Pristhesancus plagipennis</i> produces two distinct venoms in separate gland lumens. <i>Nature Communications</i> , 2018, 9, 755.	12.8	67
18	Weaponization of a Hormone: Convergent Recruitment of Hyperglycemic Hormone into the Venom of Arthropod Predators. <i>Structure</i> , 2015, 23, 1283-1292.	3.3	66

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19	Repeated treatment with the NMDA antagonist MK-801 disrupts reconsolidation of memory for amphetamine-conditioned place preference. <i>Behavioural Pharmacology</i> , 2007, 18, 699-703.	1.7	63
20	A distinct sodium channel voltage-sensor locus determines insect selectivity of the spider toxin Dc1a. <i>Nature Communications</i> , 2014, 5, 4350.	12.8	63
21	Effects of MPEP on expression of food-, MDMA- or amphetamine-conditioned place preference in rats. <i>Addiction Biology</i> , 2005, 10, 243-249.	2.6	60
22	Versatile spider venom peptides and their medical and agricultural applications. <i>Toxicon</i> , 2019, 158, 109-126.	1.6	59
23	Structural venomomics reveals evolution of a complex venom by duplication and diversification of an ancient peptide-encoding gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11399-11408.	7.1	59
24	ArachnoServer: a database of protein toxins from spiders. <i>BMC Genomics</i> , 2009, 10, 375.	2.8	58
25	Dangerous arachnidsâ€”Fake news or reality?. <i>Toxicon</i> , 2017, 138, 173-183.	1.6	58
26	Modulatory features of the novel spider toxin Î¼4â€”TRTXâ€”Df1a isolated from the venom of the spider <i>Davus fasciatus</i> . <i>British Journal of Pharmacology</i> , 2017, 174, 2528-2544.	5.4	46
27	Intersexual variations in the venom of the Brazilian â€”armedâ€” spider <i>Phoneutria nigriventer</i> (Keyserling). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 T</i>	1.6	42
28	The biology and evolution of spider venoms. <i>Biological Reviews</i> , 2022, 97, 163-178.	10.4	42
29	Intersexual variations in Northern (<i>Missulena pruinosa</i>) and Eastern (<i>M. bradleyi</i>) mouse spider venom. <i>Toxicon</i> , 2008, 51, 1167-1177.	1.6	41
30	Dipteran toxicity assays for determining the oral insecticidal activity of venoms and toxins. <i>Toxicon</i> , 2018, 150, 297-303.	1.6	39
31	Intersexual variations in the pharmacological properties of <i>Coremiocnemis tropix</i> (Araneae). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 T</i>	1.6	38
32	The insecticidal spider toxin <i>SFI</i> is a knottin peptide that blocks the pore of insect voltage-gated sodium channels via a large hairpin loop. <i>FEBS Journal</i> , 2015, 282, 904-920.	4.7	34
33	The insecticidal neurotoxin <i>Aps III</i> is an atypical knottin peptide that potently blocks insect voltage-gated sodium channels. <i>Biochemical Pharmacology</i> , 2013, 85, 1542-1554.	4.4	33
34	Australian funnel-web spiders evolved human-lethal Î±-hexatoxins for defense against vertebrate predators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24920-24928.	7.1	32
35	Ontogenetic changes in <i>Phoneutria nigriventer</i> (Araneae, Ctenidae) spider venom. <i>Toxicon</i> , 2004, 44, 635-640.	1.6	29
36	Neurotoxic and insecticidal properties of venom from the Australian theraphosid spider <i>Selenotholus foelschei</i> . <i>NeuroToxicology</i> , 2008, 29, 471-475.	3.0	28

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37	A spider-venom peptide with multitarget activity on sodium and calcium channels alleviates chronic visceral pain in a model of irritable bowel syndrome. <i>Pain</i> , 2021, 162, 569-581.	4.2	28
38	Molecular basis of the remarkable species selectivity of an insecticidal sodium channel toxin from the African spider <i>Augacephalus ezendami</i> . <i>Scientific Reports</i> , 2016, 6, 29538.	3.3	25
39	Discovery and mode of action of a novel analgesic $\hat{\text{I}}^2$ -toxin from the African spider <i>Ceratogyrus darlingi</i> . <i>PLoS ONE</i> , 2017, 12, e0182848.	2.5	22
40	Isolation and characterization of a structurally unique $\hat{\text{I}}^2$ -hairpin venom peptide from the predatory ant <i>Anochetus emarginatus</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2553-2562.	2.4	21
41	The emerging field of venom-microbiomics for exploring venom as a microenvironment, and the corresponding Initiative for Venom Associated Microbes and Parasites (iVAMP). <i>Toxicon: X</i> , 2019, 4, 100016.	2.9	21
42	Arthropod assassins: Crawling biochemists with diverse toxin pharmacopeias. <i>Toxicon</i> , 2019, 158, 33-37.	1.6	21
43	A selective NaV1.1 activator with potential for treatment of Dravet syndrome epilepsy. <i>Biochemical Pharmacology</i> , 2020, 181, 113991.	4.4	19
44	Insecticidal activity of a recombinant knottin peptide from <i>Loxosceles intermedia</i> venom and recognition of these peptides as a conserved family in the genus. <i>Insect Molecular Biology</i> , 2017, 26, 25-34.	2.0	17
45	Can we resolve the taxonomic bias in spider venom research?. <i>Toxicon: X</i> , 2019, 1, 100005.	2.9	17
46	Do Vicinal Disulfide Bridges Mediate Functionally Important Redox Transformations in Proteins?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1976-1980.	5.4	16
47	Rapid ligand fishing for identification of acetylcholinesterase-binding peptides in snake venom reveals new properties of dendrotoxins. <i>Toxicon</i> , 2018, 152, 1-8.	1.6	16
48	Methods for Deployment of Spider Venom Peptides as Bioinsecticides. <i>Advances in Insect Physiology</i> , 2014, , 389-411.	2.7	15
49	Isolation of two insecticidal toxins from venom of the Australian theraphosid spider <i>Coremiocnemis tropix</i> . <i>Toxicon</i> , 2016, 123, 62-70.	1.6	14
50	Venom Peptides with Dual Modulatory Activity on the Voltage-Gated Sodium Channel Na _V 1.1 Provide Novel Leads for Development of Antiepileptic Drugs. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 119-134.	4.9	14
51	Ontogenesis, gender, and molting influence the venom yield in the spider <i>Coremiocnemis tropix</i> (Araneae, Theraphosidae). <i>Journal of Venom Research</i> , 2010, 1, 76-83.	0.6	14
52	Novel venom-derived inhibitors of the human EAG channel, a putative antiepileptic drug target. <i>Biochemical Pharmacology</i> , 2018, 158, 60-72.	4.4	13
53	Buzz Kill: Function and Proteomic Composition of Venom from the Giant Assassin Fly <i>Dolopus genitalis</i> (Diptera: Asilidae). <i>Toxins</i> , 2018, 10, 456.	3.4	12
54	The antitrypanosomal diarylamidines, diminazene and pentamidine, show anthelmintic activity against <i>Haemonchus contortus</i> in vitro. <i>Veterinary Parasitology</i> , 2019, 270, 40-46.	1.8	12

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55	It Takes Two: Dimerization Is Essential for the Broad-Spectrum Predatory and Defensive Activities of the Venom Peptide Mp1a from the Jack Jumper Ant <i>Myrmecia pilosula</i> . <i>Biomedicines</i> , 2020, 8, 185.	3.2	12
56	Chapter 8. Therapeutic Applications of Spider-Venom Peptides. <i>RSC Drug Discovery Series</i> , 2015, , 221-244.	0.3	11
57	Insect-Active Toxins with Promiscuous Pharmacology from the African Theraphosid Spider <i>Monocentropus balfouri</i> . <i>Toxins</i> , 2017, 9, 155.	3.4	10
58	Development of High-Throughput Fluorescent-Based Screens to Accelerate Discovery of P2X Inhibitors from Animal Venoms. <i>Journal of Natural Products</i> , 2019, 82, 2559-2567.	3.0	10
59	Pharmacological Inhibition of the Voltage-Gated Sodium Channel NaV1.7 Alleviates Chronic Visceral Pain in a Rodent Model of Irritable Bowel Syndrome. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1362-1378.	4.9	10
60	Multipurpose peptides: The venoms of Amazonian stinging ants contain anthelmintic ponericins with diverse predatory and defensive activities. <i>Biochemical Pharmacology</i> , 2021, 192, 114693.	4.4	10
61	Anti-craving drugs acamprosate and naloxone do not reduce expression of morphine conditioned place preference in isolated and group-housed rats. <i>Neuroscience Letters</i> , 2005, 374, 119-123.	2.1	9
62	Repeated-testing of place preference expression for evaluation of anti-craving-drug effects. <i>Amino Acids</i> , 2005, 28, 309-317.	2.7	8
63	Periplasmic Expression of 4/7 β -Conotoxin Tx1A Analogs in <i>E. coli</i> Favors Ribbon Isomer Formation – Suggestion of a Binding Mode at the β 7 nAChR. <i>Frontiers in Pharmacology</i> , 2019, 10, 577.	3.5	8
64	Heterodimeric Insecticidal Peptide Provides New Insights into the Molecular and Functional Diversity of Ant Venoms. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 1211-1224.	4.9	8
65	Love bites – Do venomous arachnids make safe pets?. <i>Toxicon</i> , 2021, 190, 65-72.	1.6	8
66	Evaluation of Chemical Strategies for Improving the Stability and Oral Toxicity of Insecticidal Peptides. <i>Biomedicines</i> , 2018, 6, 90.	3.2	7
67	Venom of the Red-Bellied Black Snake <i>Pseudechis porphyriacus</i> Shows Immunosuppressive Potential. <i>Toxins</i> , 2020, 12, 674.	3.4	7
68	Mutational analysis of ProTx-I and the novel venom peptide Pe1b provide insight into residues responsible for selective inhibition of the analgesic drug target NaV1.7. <i>Biochemical Pharmacology</i> , 2020, 181, 114080.	4.4	7
69	Animal Venoms – Curse or Cure?. <i>Biomedicines</i> , 2021, 9, 413.	3.2	7
70	Multitarget nociceptor sensitization by a promiscuous peptide from the venom of the King Baboon spider. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	7
71	Characterization of Three Venom Peptides from the Spitting Spider <i>Scytodes thoracica</i> . <i>PLoS ONE</i> , 2016, 11, e0156291.	2.5	6
72	Venom from the spider <i>Araneus ventricosus</i> is lethal to insects but inactive in vertebrates. <i>Toxicon</i> , 2016, 115, 63-69.	1.6	6

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73	Addition of K22 Converts Spider Venom Peptide Pme2a from an Activator to an Inhibitor of NaV1.7. <i>Biomedicines</i> , 2020, 8, 37.	3.2	6
74	Amygdala cannulation alters expression of cocaine conditioned place preference and locomotion in rats. <i>Addiction Biology</i> , 2007, 12, 478-481.	2.6	5
75	Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system. <i>Nature Communications</i> , 2022, 13, 260.	12.8	5
76	The Tarantula Venom Peptide Eo1a Binds to the Domain II S3-S4 Extracellular Loop of Voltage-Gated Sodium Channel NaV1.8 to Enhance Activation. <i>Frontiers in Pharmacology</i> , 2021, 12, 789570.	3.5	4
77	Muscle spasms – A common symptom following theraphosid spider bites?. <i>Toxicon</i> , 2021, 192, 74-77.	1.6	3
78	The Neurotoxic Mode of Action of Venoms from the Spider Family Theraphosidae. , 2013, , 203-215.		2
79	The Tarantula Toxin γ -Avsp1a Specifically Inhibits Human CaV3.1 and CaV3.3 via the Extracellular S3-S4 Loop of the Domain 1 Voltage-Sensor. <i>Biomedicines</i> , 2022, 10, 1066.	3.2	2
80	Create Guidelines for Characterization of Venom Peptides. <i>Toxins</i> , 2016, 8, 252.	3.4	1
81	Discovery and characterisation of novel peptides from Amazonian stinging ant venoms with antiparasitic activity. <i>Toxicon</i> , 2020, 177, S60.	1.6	1
82	32. Development of High Throughput Calcium Channel Assays to Accelerate the Discovery of Novel Toxins Targeting Human Cav2.2 Channels. <i>Toxicon</i> , 2012, 60, 111.	1.6	0
83	Novel Human Eag Channel Antagonists from Spider Venoms. <i>Biophysical Journal</i> , 2017, 112, 332a.	0.5	0
84	TTX, cations and spider venom modify avian muscle tone in vitro. <i>Journal of Venom Research</i> , 2011, 2, 1-5.	0.6	0
85	Analysis of intraspecific variation in venoms of <i>Acanthopis antarcticus</i> death adders from South Australia. <i>Journal of Venom Research</i> , 2013, 4, 13-20.	0.6	0