Wolfgang WÃ¼ster

List of Publications by Year
in descending order

97 papers	7,449 citations	53794 45 h-index	56724 83 g-index
104 all docs	104 docs citations	104 times ranked	5442 citing authors

#	Article	IF	Citations
1	Complex cocktails: the evolutionary novelty of venoms. Trends in Ecology and Evolution, 2013, 28, 219-229.	8.7	785
2	Diet and snake venom evolution. Nature, 1996, 379, 537-540.	27.8	593
3	The king cobra genome reveals dynamic gene evolution and adaptation in the snake venom system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20651-20656.	7.1	412
4	Molecular Evolution and Phylogeny of Elapid Snake Venom Three-Finger Toxins. Journal of Molecular Evolution, 2003, 57, 110-129.	1.8	319
5	Coevolution of diet and prey-specific venom activity supports the role of selection in snake venom evolution. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2443-2449.	2.6	273
6	Medically important differences in snake venom composition are dictated by distinct postgenomic mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9205-9210.	7.1	253
7	A nesting of vipers: Phylogeny and historical biogeography of the Viperidae (Squamata: Serpentes). Molecular Phylogenetics and Evolution, 2008, 49, 445-459.	2.7	218
8	Assembling an Arsenal: Origin and Evolution of the Snake Venom Proteome Inferred from Phylogenetic Analysis of Toxin Sequences. Molecular Biology and Evolution, 2004, 21, 870-883.	8.9	206
9	Ending the drought: New strategies for improving the flow of affordable, effective antivenoms in Asia and Africa. Journal of Proteomics, 2011, 74, 1735-1767.	2.4	206
10	Tracing an invasion: landbridges, refugia, and the phylogeography of the Neotropical rattlesnake (Serpentes: Viperidae: Crotalus durissus). Molecular Ecology, 2005, 14, 1095-1108.	3.9	174
11	Taxonomy based on science is necessary for global conservation. PLoS Biology, 2018, 16, e2005075.	5.6	149
12	Domain Loss Facilitates Accelerated Evolution and Neofunctionalization of Duplicate Snake Venom Metalloproteinase Toxin Genes. Molecular Biology and Evolution, 2011, 28, 2637-2649.	8.9	147
13	The structural and functional diversification of the Toxicofera reptile venom system. Toxicon, 2012, 60, 434-448.	1.6	142
14	Analysis of Colubroidea snake venoms by liquid chromatography with mass spectrometry: evolutionary and toxinological implications. Rapid Communications in Mass Spectrometry, 2003, 17, 2047-2062.	1.5	141
15	Isolation of a Neurotoxin (?-colubritoxin) from a Nonvenomous Colubrid: Evidence for Early Origin of Venom in Snakes. Journal of Molecular Evolution, 2003, 57, 446-452.	1.8	138
16	Comparative venom gland transcriptome surveys of the saw-scaled vipers (Viperidae: Echis) reveal substantial intra-family gene diversity and novel venom transcripts. BMC Genomics, 2009, 10, 564.	2.8	135
17	Do aposematism and Batesian mimicry require bright colours? A test, using European viper markings. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2495-2499.	2.6	130
18	Widespread convergence in toxin resistance by predictable molecular evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11911-11916.	7.1	130

#	Article	IF	Citations
19	When continents collide: Phylogeny, historical biogeography and systematics of the medically important viper genus Echis (Squamata: Serpentes: Viperidae). Molecular Phylogenetics and Evolution, 2009, 53, 792-807.	2.7	125
20	Historical Biogeography of the Western Rattlesnake (Serpentes: Viperidae: Crotalus viridis), Inferred from Mitochondrial DNA Sequence Information. Molecular Phylogenetics and Evolution, 2000, 15, 269-282.	2.7	106
21	Convergent evolution of pain-inducing defensive venom components in spitting cobras. Science, 2021, 371, 386-390.	12.6	96
22	Taxonomic changes and toxinology: Systematic revisions of the asiatic cobras (Naja naja species) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.6	95
23	The phylogeny of cobras inferred from mitochondrial DNA sequences: Evolution of venom spitting and the phylogeography of the African spitting cobras (Serpentes: Elapidae: Naja nigricollis complex). Molecular Phylogenetics and Evolution, 2007, 45, 437-453.	2.7	95
24	Pre-Clinical Assays Predict Pan-African Echis Viper Efficacy for a Species-Specific Antivenom. PLoS Neglected Tropical Diseases, 2010, 4, e851.	3.0	89
25	Combining mitochondrial DNA sequences and morphological data to infer species boundaries: phylogeography of lanceheaded pitvipers in the Brazilian Atlantic forest, and the status of Bothrops pradoi (Squamata: Serpentes: Viperidae). Journal of Evolutionary Biology, 2001, 14, 527-538.	1.7	86
26	Dynamic evolution of venom proteins in squamate reptiles. Nature Communications, 2012, 3, 1066.	12.8	86
27	Electrophoretic profiles and biological activities: Intraspecific variation in the venom of the malayan pit viper (Calloselasma rhodostoma). Toxicon, 1996, 34, 67-79.	1.6	80
28	The medical threat of mamba envenoming in sub-Saharan Africa revealed by genus-wide analysis of venom composition, toxicity and antivenomics profiling of available antivenoms. Journal of Proteomics, 2018, 172, 173-189.	2.4	80
29	Snakes across the Strait: trans-Torresian phylogeographic relationships in three genera of Australasian snakes (Serpentes: Elapidae: Acanthophis, Oxyuranus, and Pseudechis). Molecular Phylogenetics and Evolution, 2005, 34, 1-14.	2.7	78
30	Phylogeography of the widespread <scp>A</scp>frican puff adder (<i><scp>B</scp>itis arietans</i>) reveals multiple <scp>P</scp>leistocene refugia in southern <scp>A</scp>frica. Molecular Ecology, 2013, 22, 1134-1157.	3.9	71
31	Electrospray liquid chromatography/mass spectrometry fingerprinting ofAcanthophis(death adder) venoms: taxonomic and toxinological implications. Rapid Communications in Mass Spectrometry, 2002, 16, 600-608.	1.5	70
32	Differential procoagulant effects of saw-scaled viper (Serpentes: Viperidae: Echis) snake venoms on human plasma and the narrow taxonomic ranges of antivenom efficacies. Toxicology Letters, 2017, 280, 159-170.	0.8	69
33	Effectiveness of Snake Antivenom: Species and Regional Venom Variation and Its Clinical Impact. Toxin Reviews, 2003, 22, 23-34.	1.5	64
34	When one phenotype is not enough: divergent evolutionary trajectories govern venom variation in a widespread rattlesnake species. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182735.	2.6	64
35	Evidence that humidity influences snake activity patterns: a field study of the Malayan pit viper Calloselasma rhodostoma. Ecography, 1998, 21, 25-34.	4.5	63
36	Phylogeographic patterns of trans-Amazonian vicariants and Amazonian biogeography: the Neotropical rattlesnake (Crotalus durissus complex) as an example. Journal of Biogeography, 2007, 34, 1296-1312.	3.0	61

#	Article	IF	Citations
37	Synopsis of recent developments in venomous snake systematics. Toxicon, 1997, 35, 319-340.	1.6	56
38	Deconstructing compassionate conservation. Conservation Biology, 2019, 33, 760-768.	4.7	53
39	Population systematics of Russell's viper: a multivariate study. Biological Journal of the Linnean Society, 1992, 47, 97-113.	1.6	52
40	The conserved structure of snake venom toxins confers extensive immunological cross-reactivity to toxin-specific antibody. Toxicon, 2003, 41, 441-449.	1.6	52
41	Venom lethality and diet: Differential responses of natural prey and model organisms to the venom of the saw-scaled vipers (Echis). Toxicon, 2012, 59, 110-116.	1.6	52
42	In praise of subgenera: taxonomic status of cobras of the genus Naja Laurenti (Serpentes: Elapidae). Zootaxa, 2009, 2236, 26-36.	0.5	50
43	Treatment of snake bites by Bothrops species and Lachesis muta in Ecuador: laboratory screening of candidate antivenoms. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1995, 89, 550-554.	1.8	48
44	Asiatic cobras: Systematics and snakebite. Experientia, 1991, 47, 205-209.	1.2	47
45	Morphological correlates of incipient arboreality and ornithophagy in island pitvipers, and the phylogenetic position of Bothrops insularis. Journal of Zoology, 2005, 266, 1-10.	1.7	46
46	Evaluating taxonomic inflation: towards evidence-based species delimitation in Eurasian vipers (Serpentes: Viperinae). Amphibia - Reptilia, 2020, 41, 285-311.	0.5	45
47	Phylogeny and diversification of mountain vipers (Montivipera, Nilson et al., 2001) triggered by multiple Plioâ€“Pleistocene refugia and high-mountain topography in the Near and Middle East. Molecular Phylogenetics and Evolution, 2016, 101, 336-351.	2.7	43
48	Geographic variation and population systematics: Distinguishing between ecogenetics and phylogenetics. Bollettino Di Zoologia, 1991, 58, 329-335.	0.3	42
49	Intraspecific Variation in the Feeding Ecology of the Crotaline Snake Calloselasma rhodostoma in Southeast Asia. Journal of Herpetology, 1998, 32, 198.	0.5	42
50	Population affinities of the asiatic cobra (Naja naja) species complex in south-east Asia: reliability and random resampling. Biological Journal of the Linnean Society, 1989, 36, 391-409.	1.6	37
51	Phylogeography of the Central American lancehead Bothrops asper (SERPENTES: VIPERIDAE). PLoS ONE, 2017, 12, e0187969.	2.5	36
52	A NEW SPECIES OF WOLF SNAKE (SERPENTES: COLUBRIDAE: LYCODON) FROM THE CARDAMOM MOUNTAINS, SOUTHWESTERN CAMBODIA. Herpetologica, 2002, 58, 498-504.	0.4	34
53	Population systematics of the snake genus Naja (Reptilia: Serpentes: Elapidae) in Indochina: Multivariate morphometrics and comparative mitochondrial DNA sequencing (cytochrome oxidase I). Journal of Evolutionary Biology, 1995, 8, 493-510.	1.7	33
54	Integration of nuclear and mitochondrial gene sequences and morphology reveals unexpected diversity in the forest cobra (Naja melanoleuca) species complex in Central and West Africa (Serpentes: Elapidae). Zootaxa, 2018, 4455, 68-98.	0.5	33

#	Article	IF	Citations
55	Synopsis of recent developments in venomous snake systematics, No. 2. Toxicon, 1998, 36, 299-307.	1.6	30
56	Is Hybridization a Source of Adaptive Venom Variation in Rattlesnakes? A Test, Using a Crotalus scutulatus Ã— viridis Hybrid Zone in Southwestern New Mexico. Toxins, 2016, 8, 188.	3.4	29
57	A new species of spitting cobra (Naja) from north-eastern Africa (Serpentes: Elapidae). Journal of Zoology, 2003, 259, 345-359.	1.7	27
58	Ancient habitat shifts and organismal diversification are decoupled in the African viper genus <i>Bitis</i> (Serpentes: Viperidae). Journal of Biogeography, 2019, 46, 1234-1248.	3.0	26
59	The good, the bad and the ugly: Australian snake taxonomists and a history of the taxonomy of Australia's venomous snakes. Toxicon, 2006, 48, 919-930.	1.6	25
60	Get an eyeful of this: a new species of giant spitting cobra from eastern and north-eastern Africa (Squamata: Serpentes: Elapidae: Naja). Zootaxa, 2007, 1532, 51-68.	0.5	25
61	A review of the southern African â€˜nonâ€spittingâ€™ cobras (Serpentes: Elapidae:<i>Naja</i>). African Journal of Herpetology, 2004, 53, 101-122.	0.9	24
62	Gene Tree Parsimony of Multilocus Snake Venom Protein Families Reveals Species Tree Conflict as a Result of Multiple Parallel Gene Loss. Molecular Biology and Evolution, 2011, 28, 1157-1172.	8.9	24
63	Phylogeography and systematic revision of the Egyptian cobra (Serpentes: Elapidae: Naja haje) species complex, with the description of a new species from West Africa. Zootaxa, 2009, 2236, 1-25.	0.5	22
64	Widespread vulnerability of Malagasy predators to the toxins of an introduced toad. Current Biology, 2018, 28, R654-R655.	3.9	22
65	Promoting co-existence between humans and venomous snakes through increasing the herpetological knowledge base. Toxicon: X, 2021, 12, 100081.	2.9	21
66	Synopsis of recent developments in venomous snake systematics, No. 3. Toxicon, 1999, 37, 1123-1129.	1.6	20
67	Fangs for the Memories? A Survey of Pain in Snakebite Patients Does Not Support a Strong Role for Defense in the Evolution of Snake Venom Composition. Toxins, 2020, 12, 201.	3.4	20
68	Convergent evolution of toxin resistance in animals. Biological Reviews, 2022, 97, 1823-1843.	10.4	20
69	Naja siamensis, a cryptic species of venomous snake revealed by mtDNA sequencing. Experientia, 1994, 50, 75-79.	1.2	19
70	Redescription of <i>Naja siamensis</i> (Serpentes: Elapidae), a widely overlooked spitting cobra from S.E. Asia: geographic variation, medical importance and designation of a neotype. Journal of Zoology, 1997, 243, 771-788.	1.7	17
71	Venom On-a-Chip: A Fast and Efficient Method for Comparative Venomics. Toxins, 2017, 9, 179.	3.4	17
72	Confronting taxonomic vandalism in biology: conscientious community self-organization can preserve nomenclatural stability. Biological Journal of the Linnean Society, 2021, 133, 645-670.	1.6	16

#	ARTICLE	IF	CITATIONS
73	Origin of the eastern brownsnake, Pseudonaja textilis (Dumeril, Bibron and Dumeril) (Serpentes:) Tj ETQq1 1 0.784314 rgBT /Overlock 1 on the status of Pseudonaja textilis pughi Hoser 2003. Zootaxa, 2008, 1703, 47.	0.5	15
74	Venom Complexity in a Pitviper Produced by Facultative Parthenogenesis. Scientific Reports, 2018, 8, 11539.	3.3	14
75	Bacterial Adaptation to Venom in Snakes and Arachnida. Microbiology Spectrum, 2022, 10, .	3.0	13
76	Reviews of venomous snake systematics in Toxicon. Toxicon, 1996, 34, 397-398.	1.6	11
77	Crowdsourcing snake identification with online communities of professional herpetologists and avocational snake enthusiasts. Royal Society Open Science, 2021, 8, 201273.	2.4	11
78	Genome-wide data implicate terminal fusion automixis in king cobra facultative parthenogenesis. Scientific Reports, 2021, 11, 7271.	3.3	10
79	Citizen science and online data: Opportunities and challenges for snake ecology and action against snakebite. Toxicon: X, 2021, 9-10, 100071.	2.9	10
80	Venomous snake systematics: implications for snakebite treatment and toxinology. Toxicon, 1996, 34, 143.	1.6	9
81	A new species of death adder (Acanthophis: Serpentes: Elapidae)Âfrom north-western Australia. Zootaxa, 2015, 4007, 301-26.	0.5	9
82	Multi-locus phylogeny and species delimitation of Australo-Papuan blacksnakes (Pseudechis Wagler,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	9
83	King or royal family? Testing for species boundaries in the King Cobra, Ophiophagus hannah (Cantor,) Tj ETQq1 1 0.784314 rgBT /Overlo 165, 107300.	2.7	9
84	Destruction of the collection of reptiles and arthropods at Butantan Institute: a view from the United Kingdom. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2010, 16, .	1.4	9
85	On the generic classification of the rattlesnakes, with special reference to the Neotropical Crotalus durissus complex (Squamata: Viperidae). Zoologia, 2011, 28, 417-419.	0.5	6
86	Interpopulational variation and ontogenetic shift in the venom composition of Lataste's viper (Vipera) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.4	6
87	No rattlesnakes in the rainforests: reply to Gosling and Bush. Molecular Ecology, 2005, 14, 3619-3621.	3.9	5
88	Anonymous nuclear markers for the African adders (Serpentes: Viperidae: Bitis). Conservation Genetics Resources, 2012, 4, 967-969.	0.8	5
89	Congruence between morphological variation and altitudinal gradient across a hybrid zone between carrion and hooded crows. Italian Journal of Zoology, 1998, 65, 407-412.	0.6	4
90	Defensive Hemipenis Display in the Kukri Snake Oligodon cyclurus. Journal of Herpetology, 1992, 26, 238.	0.5	3

#	Article	IF	Citations
91	Roles of CITES in Protecting New Species. Science, 2006, 313, 915c-916c.	12.6	3
92	What's your poison?. Heredity, 2010, 104, 519-519.	2.6	3
93	Mohave Rattlesnake (<i>Crotalus scutulatus</i>) Identification Revisited. Wilderness and Environmental Medicine, 2022, 33, 210-218.	0.9	3
94	How do King Cobras move across a major highway? Unintentional wildlife crossing structures may facilitate movement. Ecology and Evolution, 2022, 12, e8691.	1.9	3
95	Unexpected lack of specialisation in the flow properties of spitting cobra venom. Journal of Experimental Biology, 2021, 224, .	1.7	2
96	Recent Advances in Venomous Snake Systematics. , 2009, , 25-64.		1
97	An evaluation of the nomina for death adders (Acanthophis Daudin, 1803) proposed by Wells & Wellington (1985), and confirmation of A. cryptamydros Maddock et al., 2015 as the valid name for the Kimberley death adder. Zootaxa, 2021, 4995, 161-172.	0.5	0