Georg Petschenka

List of Publications by Year
in descending order

19 papers	1,053 citations	759233 12 h-index	839539 18 g-index
24 all docs	24 docs citations	24 times ranked	1030 citing authors

#	Article	IF	Citations
1	Toxic cardenolides: chemical ecology and coevolution of specialized plantâ€“herbivore interactions. New Phytologist, 2012, 194, 28-45.	7.3	345
2	How herbivores coopt plant defenses: natural selection, specialization, and sequestration. Current Opinion in Insect Science, 2016, 14, 17-24.	4.4	123
3	STEPWISE EVOLUTION OF RESISTANCE TO TOXIC CARDENOLIDES VIA GENETIC SUBSTITUTIONS IN THE NA⁺/K⁺-ATPASE OF MILKWEED BUTTERFLIES (LEPIDOPTERA: DANAINI). Evolution; International Journal of Organic Evolution, 2013, 67, 2753-2761.	2.3	95
4	Milkweed butterfly resistance to plant toxins is linked to sequestration, not coping with a toxic diet. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151865.	2.6	94
5	Convergent adaptive evolution â€“ how insects master the challenge of cardiac glycosideâ€containing host plants. Entomologia Experimentalis Et Applicata, 2015, 157, 30-39.	1.4	54
6	Independent evolution of ancestral and novel defenses in a genus of toxic plants (Erysimum,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	6.0	52
7	Na⁺/K⁺-ATPase resistance and cardenolide sequestration: basal adaptations to host plant toxins in the milkweed bugs (Hemiptera: Lygaeidae: Lygaeinae). Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142346.	2.6	47
8	Relative Selectivity of Plant Cardenolides for Na+/K+-ATPases From the Monarch Butterfly and Non-resistant Insects. Frontiers in Plant Science, 2018, 9, 1424.	3.6	39
9	Sequestration of Plant Defense Compounds by Insects: From Mechanisms to Insectâ€“Plant Coevolution. Annual Review of Entomology, 2022, 67, 163-180.	11.8	36
10	Toxicity of Milkweed Leaves and Latex: Chromatographic Quantification Versus Biological Activity of Cardenolides in 16 Asclepias Species. Journal of Chemical Ecology, 2019, 45, 50-60.	1.8	35
11	Cardenolide Intake, Sequestration, and Excretion by the Monarch Butterfly along Gradients of Plant Toxicity and Larval Ontogeny. Journal of Chemical Ecology, 2019, 45, 264-277.	1.8	34
12	Adaptive substitutions underlying cardiac glycoside insensitivity in insects exhibit epistasis in vivo. ELife, 2019, 8, .	6.0	28
13	Functional evidence supports adaptive plant chemical defense along a geographical cline. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
14	Perspectives for integrated insect pest protection in oilseed rape breeding. Theoretical and Applied Genetics, 2022, 135, 3917-3946.	3.6	11
15	Dietary cardenolides enhance growth and change the direction of the fecundityâ€longevity tradeâ€off in milkweed bugs (Heteroptera: Lygaeinae). Ecology and Evolution, 2021, 11, 18042-18054.	1.9	10
16	Defense of Milkweed Bugs (Heteroptera: Lygaeinae) against Predatory Lacewing Larvae Depends on Structural Differences of Sequestered Cardenolides. Insects, 2020, 11, 485.	2.2	9
17	Insect Collections as an Untapped Source of Bioactive Compoundsâ€”Fireflies (Coleoptera: Lampyridae) and Cardiotonic Steroids as a Proof of Concept. Insects, 2021, 12, 689.	2.2	9
18	Analysis of defensive secretion of a milkweed bug Lygaeus equestris by 1D GC-MS and GCÃ—GC-MS: sex differences and host-plant effect. Scientific Reports, 2020, 10, 3092.	3.3	7

#	Article	IF	Citations
19	Amphibian myiasis. Blowfly larvae (Lucilia bufonivora, Diptera: Calliphoridae) coping with the poisonous skin secretion of the common toad (Bufo bufo). Chemoecology, 2014, 24, 159-164.	1.1	0