GESAMTVERZEICHNIS VERÖFFENTLICHUNGEN PETER BIEDERMANN

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per 11. Juni 2018 wurden meine Artikel 824 mal zitiert, was einem H-Index von 14 entspricht (Google Scholar)

VERÖFFENTLICHUNGEN IN INTERNATIONALEN PEER-REVIEWED JOURNALEN

2020

(1) Biedermann, P.H.W. and F.E. Vega, *Ecology and evolution of insect–fungus mutualisms.* **Annual Review of Entomology**, 2020. 65.

(2) Nuotclá, J.A., P.H.W. Biedermann, and M. Taborsky, *Pathogen defence is a potential driver of social evolution in ambrosia beetles.* **Proceedings of the Royal Society B: Biological Sciences**, 2020 doi: http://dx.doi.org/10.1098/rspb.2019.2332.

(3) Vega, F.E., and P.H.W. Biedermann, *On interactions, associations, mycetangia, mutualists and symbiotes in insect-fungus symbioses.* **Fungal Ecology**, 2020 doi: https://doi.org/10.1016/j.funeco.2019.100909

2019

(4) Biedermann, P.H.W., et al., *Bark Beetle Population Dynamics in the Anthropocene: Challenges and Solutions.* **Trends in Ecology & Evolution**, 2019. 34(10): p. 914-924.
(5) Biedermann, P.H.W., H.H. De Fine Licht, and M. Rohlfs, *Evolutionary chemo-ecology of insect-fungus interactions: Still in its infancy but advancing.* **Fungal Ecology**, 2019. 38: p. 1-6.
(6) Lehenberger, M., et al., *– Take good care of my fungi – Fungus-spore carrying organs in Tryopodendron ambrosia beetles.* **Mitteilungen der Deutschen Gesellschaft fuer Allgemeine und Angewandte Entomologie**, 2019. 22: p. 1-4.
(7) Lehenberger, M., P.H.W. Biedermann, and J.P. Benz, *Molecular identification and enzymatic profiling of Trypodendron (Curculionidae: Xyloterini) ambrosia beetle-associated fungi of the genus Phialophoropsis (Microascales: Ceratocystidaceae).* **Fungal Ecology**, 2019. doi.org/10.1016/j.funeco.2018.07.010.
(8) Grubbs, K.J., et al., *Cycloheximide-Producing Streptomyces Associated with Xyleborinus saxesenii and Xyleborus affinis Fungus-Farming Ambrosia Beetles.* **bioRxiv**, 2019: p. 511493.
(9) Seibold, S., et al., *Fungi associated with beetles dispersing from dead wood – Let's take the beetle bus!* **Fungal Ecology**, 2019. 39: p. 100-108.

2018

(10) Ranger, C.M., et al., *Symbiont selection via alcohol benefits fungus farming by ambrosia beetles.* **Proceedings of the National Academy of Sciences**, 2018. 115(17): p. 4447-4452.
(11) Birkemoe, T., et al., *Insect-fungus interactions in dead wood systems*, in *Saproxylic Insects*, M.D. Ulyshen, Editor. 2018, Springer. p. 377-427.
(12) van de Peppel, L.J.J., D.K. Aanen, and P.H.W. Biedermann, *Low intraspecific genetic diversity indicates asexuality and vertical transmission in the fungal cultivars of ambrosia beetles.* **Fungal Ecology**, 2018. 32: p. 57-64.
(13) Lehenberger, M., et al., *Trypodendron domesticum (Linné) und Trypodendron lineatum (Olivier)(Curculionidae; Scolytinae) als potentielle Vektoren von xylobionten und sapro-*

xylobionten Pilzen. **Mitteilungen der Deutschen Gesellschaft fuer Allgemeine und Angewandte Entomologie**, 2018. 21.

Before 2017

(14) Biedermann, P.H.W. and M. Rohlfs, *Evolutionary feedbacks between insect sociality and microbial management.* **Current Opinion in Insect Science**, 2017. 22: p. 92-100.
(15) Vega, F., et al., *Artificial diet sandwich reveals subsocial behaviour in the coffee berry borer Hypothenemus hampei (Coleoptera: Curculionidae: Scolytinae).* **Journal of Applied Entomology**, 2016.
(16) Dohet, L., et al., *Bacterial and fungal symbionts of parasitic Dendroctonus bark beetles.* **FEMS microbiology ecology**, 2016. 92(9).
(17) Mayers, C.G., et al., *Three genera in the Ceratocystidaceae are the respective symbionts of three independent lineages of ambrosia beetles with large, complex mycangia.* **Fungal Biology**, 2015. 119(11): 1075-1092.
(18) Kirkendall, L.R., P.H.W. Biedermann, and B.H. Jordal, *Evolution and diversity of bark and ambrosia beetles.*, in *Bark Beetles: Biology and Ecology of Native and Invasive Species*, F.E. Vega and R.W. Hofstetter, Editors. 2015, Academic Press. p. 85-156.
(19) Florez, L.V., et al., *Defensive symbioses of animals with prokaryotic and eukaryotic microorganisms.* **Nat Prod Rep**, 2015. 32(7): p. 904-36.
(20) Biedermann, P.H.W. and M. Kaltenpoth, *New synthesis: the chemistry of partner choice in insect-microbe mutualisms.* **J Chem Ecol**, 2014. 40(2): p. 99.
(21) Aylward, F.O., et al., *Convergent bacterial microbiotas in the fungal agricultural systems of insects.* **MBio**, 2014. 5(6): p. e02077.
(22) Biedermann, P.H.W., *Evolution of cooperation in ambrosia beetles.* **Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie**, 2014. 19: p. 191-202.
(23) Nuotcla, J.A., M. Taborsky, and P.H.W. Biedermann, *The importance of blocking the gallery entrance in the ambrosia beetle Xyleborinus saxesenii Ratzeburg (Coleoptera; Scolytinae).* **Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie**, 2014. 19: p. 203-210.
(24) Biedermann, P.H.W., *Fungiculturing beetles: The biology of ambrosia beetles and how to observe them.* **Artenschutzreport**, 2014. 33: p. 43-45.
(25) Biedermann, P.H.W., et al., *Abundance and dynamics of filamentous fungi in the complex ambrosia gardens of the primitively eusocial beetle Xyleborinus saxesenii Ratzeburg (Coleoptera: Curculionidae, Scolytinae).* **FEMS Microbiology Ecology**, 2013. 83(3): p. 711-723.
(26) Biedermann, P.H.W., *The evolution of cooperation in ambrosia beetles*. 2012, Ph.D. thesis, University of Bern.
(27) Biedermann, P.H.W., K. Peer, and M. Taborsky, *Female dispersal and reproduction in the ambrosia beetle Xyleborinus saxesenii Ratzeburg (Coleoptera; Scolytinae).* **Mitteilungen der Deutschen Gesellschaft für allgemeine und angewandte Entomologie**, 2012. 18: p. 231-235.
(28) De Fine Licht, H.H. and P.H.W. Biedermann, *Patterns of functional enzyme activity in fungus farming ambrosia beetles.* **Frontiers in zoology**, 2012. 9(1): p. 13.
(29) Grubbs, K.J., et al., *Genome Sequence of Streptomyces griseus Strain XylebKG-1, an Ambrosia Beetle-Associated Actinomycete.* **Journal of Bacteriology**, 2011. 193(11): p. 2890-2891.
(30) Biedermann, P.H.W. and M. Taborsky, *Larval helpers and age polyethism in ambrosia beetles.* **Proceedings of the National Academy of Sciences**, 2011. 108(41): p. 17064-17069.
(31) Biedermann, P.H., *Observations on sex ratio and behavior of males in Xyleborinus saxesenii Ratzeburg (Scolytinae, Coleoptera).* **ZooKeys**, 2010(56): p. 253.
(32) Biedermann, P.H.W. and M.H. Kaercher, *Weather-dependent activity and flight height of barn swallows, Hirundo rustica Linnaeus 1758, and house martinsDelichon urbicum (Linnaeus 1758).* **Egretta**, 2009. 50: p. 76-81.

(33) Biedermann, P.H.W., K.D. Klepzig, and M. Taborsky, *Fungus cultivation by ambrosia beetles: behavior and laboratory breeding success in three xyleborine species.* **Environmental entomology**, 2009. 38(4): p. 1096-1105.
(34) Karcher, M.H., et al., *Predator-prey interaction between drones of Apis mellifera carnica and insectivorous birds.* **Apidologie**, 2008. 39(3): p. 302-309.
(35) Delhey, K., et al., *Optical properties of the uropygial gland secretion: no evidence for UV cosmetics in birds.* **Naturwissenschaften**, 2008. 95(10): p. 939-946.
(36) Biedermann, P.H.W., *Social behaviour in sib mating fungus farmers*, in *Institute for Ecology and Evolution*. 2007, University of Bern: Bern.
(37) Biedermann, P.H.W., *Hidden leks in the yellow-browed warbler Phylloscopus inornatus? - investigations from the Khan Khentey Reserve (Mongolia).* **Acrocephalus (Ljubljana)**, 2006. 27(128-129): p. 21-35.

Populärwissenschaftliche Artikel

(1) **Biedermann PHW (2019)** Wohnraumgeber wider Willen**.** Buchrezension zu „Faszinierende Pflanzengallen“. ***Biologie in Unserer Zeit*** 4: 2-3.
(2) **Biedermann PHW** (2018) Warum diese Käfer Alkohol lieben – und was wir von ihnen lernen können. ***Focus Online*** *Link* (11.4.2018)
(3) Van de Peppel L, Wisselink M, Aanen DK & **Biedermann PHW** (2017) Genetic diversity in fungal symbionts of ambrosia beetles in Europe. ***DGaaE Nachrichten***
(4) Uhe C & **Biedermann PHW** (2016) Heimische Ambrosiakäfer: Sozialverhalten und Funktion im Ökosystem Wald. ***Artenschutzreport*** 35: 67-68. Jena, Germany.
(5) **Biedermann PHW** (2016) Verborgen unter Blattwerk. Buchrezension zu „Bäume und ihre Bewohner“. ***Spektrum der Wissenschaften*** 9/2016, 86.
(6) **Biedermann PHW** (2014) Käfer als Pilzzüchter – Biologie und Beobachtungsanleitung von Ambrosiakäfern. ***Artenschutzreport*** 33: 43-45. Jena, Germany.
(7) **Biedermann PHW** (2013) Käfer als fleißige Gärtner. ***ÖAW Young Science*** 30/5/2013, ORF Vienna. science.orf.at
(8) **Biedermann PHW** (2013) Kinderarbeit bei Gottes Käfern. ***Bild der Wissenschaften***, Sonderbeilage.
(9) **Biedermann PHW** & Kärcher MH (2008) Weather-dependent activity and flying height of Barn Swallows (*Hirundo rustica*) and House Martins (*Delichon urbica*) in southwestern Styria. ***Egretta*** 50: 76-81. links to newspaper articles about this work: Neue Züricher Zeitung, Uniaktuell, derStandard
(10) **Biedermann PHW** (2003) Die Kraniche der Welt. ***Zool. Newsletter*** 2; Landesmuseum Joanneum Graz.