

Peer reviewed journals

Gonthier, J., Zhang, Y., Zhang, G., Romeis, J., **Collatz, J.** 2022. Odor learning improves efficacy of egg parasitoids as biocontrol agents against *Tuta absoluta*. *Journal of Pest Science*: accepted.

Kapranas, A., **Collatz, J.**, Michaelakis, A., Milonas, P. 2022. Review of the role of sterile insect technique within biologically-based pest control – an appraisal of existing regulatory frameworks. *Entomologia Experimentalis et Applicata*: accepted.

Duarte-Martinez, L., Martinez Rivero, M.A., Bueno, V.H.P. & **Collatz J.** 2022. Predation behaviour and prey preference of two neotropical mirids against two key lepidopteran pests in tomato. *International Journal of Tropical Pest Science* 42: 815-825.

Zhang, Y., Tian, X., Wang, H., Casteñé, C., Arnó, J., **Collatz, J.**, Romeis, J., Wu, S., Xian, X., Liu, W., Wan, F. & Zhang, G. 2021. Host selection behavior of the host-feeding parasitoid *Necremnus tuta* on *Tuta absoluta*. *Entomologia Generalis*: in press.

Siffert, A., Cahenzli, F., Kehrl, P., Daniel, C., Dekumbis, V., Egger, B., Furtwengler, J., Minguely, C., Stäheli, N., Widmer, F., Mazzi, D. & **Collatz, J.** 2021. Predation on *Drosophila suzukii* within Hedges in the Agricultural Landscape. *Insects* 12: 305.

Collatz, J. & Romeis, J. 2021. Flowers and fruits prolong survival of drosophila pupal parasitoids. *Journal of Applied Entomology*, 145: 629-634.

Rondoni, G., Borges, I., **Collatz, J.**, Conti, E., Costamagna, A.C., Dumont, F., Evans, E., Grez, A.A., Howe, A.G., Lucas, E., Maisonhaute, J.-E., Onofre Soares, A., Zaviezo, T. & Cock, M.J.W. 2021. Exotic ladybirds for biological control of herbivorous insects – a review. *Entomologia Experimentalis et Applicata* 169: 6-27.

Wolf, S., Barmettler, E., Eisenring, M., Romeis, J. & **Collatz, J.** 2020. Host searching and host preference of resident pupal parasitoids of *Drosophila suzukii* in the invaded regions. *Pest Management Science* 77: 243-252.

Amiresmaeili, N., Romeis, J. & **Collatz, J.** 2020. Cold tolerance of the drosophila pupal parasitoid *Trichopria drosophilae*. *Journal of Insect Physiology* 125: 104087.

Trivellone, V. Meier, M., Cara, C., Pollini Paltrinieri, L., Gugerli, F., Moretti, M., Wolf, S. & **Collatz, J.** 2020. Multiscale determinants drive parasitization of Drosophilidae by Hymenopteran parasitoids in agricultural landscapes. *Insects* 11: 334.

Romeis, J., **Collatz, J.**, Glandorf, D. & Bonsall, M. 2020. The value of existing regulatory frameworks for the environmental risk assessment of agricultural pest control using gene drives. *Environmental Science and Policy* 108: 19-36.

Wolf, S., Boycheva Woltering, S., Romeis, J., & **Collatz, J.** 2020. *Trichopria drosophilae* parasitizes *Drosophila suzukii* in seven common non-crop fruits. *Journal of Pest Science* 93: 627-638.

Boycheva Woltering, S., Romeis, J., & **Collatz, J.** 2019. Influence of the rearing host on biological parameters of *Trichopria drosophilae*, a potential biological control agent of *Drosophila suzukii*. *Insects*, 10: 183.

Wolf, S., Baur, H., & **Collatz, J.** 2019. Life history of *Vrestovia fidenas*, a potential control agent of *Drosophila suzukii*. *BioControl* 64: 263-275.

Wolf, S., Romeis, J., & **Collatz, J.** 2018. Utilization of plant-derived food sources from annual flower strips by the invasive harlequin ladybird *Harmonia axyridis*. *Biological Control*, 122: 118-126.

Wolf, S., Zeisler, C., Sint, D., Romeis, J., Traugott, M. & **Collatz, J.** 2018. A simple and cost-effective molecular method to track predation on *Drosophila suzukii* in the field. *Journal of Pest Science* **91**: 927-935.

Mody, K., **Collatz, J.**, Bucharova A. & Dorn, S. 2017. Crop cultivar affects performance of herbivore enemies and may trigger enhanced pest control by coaction of different parasitoid species. *Agriculture Ecosystems and Environment* **245**: 74-82.

Mason, P.G., Everatt, M.J., Loomans, A.J.M. & **Collatz, J.** 2017. Harmonizing the regulation of invertebrate biological control agents in the EPPO region: using the NAPPO region as a model. *EPPO Bulletin* **47**: 79-90.

Knoll, V., Ellenbroek, T., Romeis, J. & **Collatz, J.** 2017. Seasonal and regional presence of hymenopteran parasitoids of *Drosophila* in Switzerland and their ability to parasitize the invasive *Drosophila suzukii*. *Scientific Reports* **7**: 40697.

Tschumi, M., Albrecht, M., **Collatz, J.**, Dubsky, V., Entling, M.H., Najar-Rodriguez, A.J. & Jacot, K. 2016. Tailored flower strips promote natural enemy biodiversity and pest control in potato crops. *Journal of Applied Ecology* **53**: 1169-1176.

Tschumi, M., Albrecht, M., Bärtschi, C., **Collatz, J.**, Entling, M.H., & Jacot, K. 2016. Perennial, species-rich wildflower strips enhance pest control and crop yield. *Agriculture, Ecosystems & Environment* **220**: 97-103.

Hötling, S., Bittner, C., Tamm, M., Dähn, S., **Collatz, J.**, Steidle, J.L.M. & Schulz, S. 2015. Identification of a grain beetle macrolide pheromone and its synthesis by ring-closing metathesis using a terminal alkyne. *Organic Letters* **17**: 5004-5007.

Mody, K., **Collatz, J.** & Dorn, S. 2015. Plant genotype and the preference and performance of herbivores: cultivar affects apple resistance to the florivorous weevil *Anthonomus pomorum*. *Agricultural and Forest Entomology* **17**: 337-346.

De Castro, A.A., de S Tavares, W., **Collatz, J.**, de A Pereira, A.I., Serrão, J.E., & Zanuncio, J.C. 2015. Antibiosis of tomato, *Solanum lycopersicum* (Solanaceae) plants to the Asopinae predator *Supputius cincticeps* (Heteroptera: Pentatomidae). *Invertebrate Survival Journal* **12**: 179-187.

Hötling, S., Haberlag, B., Tamm, M., **Collatz, J.**, Mack, P., Steidle, J.L.M., Vences, M. & Schulz, S. 2014. Identification and synthesis of macrolide pheromones of the grain beetle *Oryzaephilus surinamensis* and the frog *Spinomantis aglavei*. *Chemistry – A European Journal* **20**: 3183-3191.

Collatz, J. & Dorn, S. 2013. Tritrophic consequences arising from a host shift between apple and walnut in an oligophagous herbivore. *Biological Control* **65**: 330-337.

Collatz, J. & Dorn, S. 2013. A host plant-derived volatile blend to attract the apple blossom weevil *Anthonomus pomorum* – the essential volatiles include a repellent constituent. *Pest Management Science* **69**: 1092-1098.

Collatz, J., Selzer, P., Fuhrmann, A., Kahl, O., Oehme, R.M., Mackenstedt, U. & Steidle, J.L.M. 2011. A hidden beneficial – Biology of the tick-wasp *Ixodiphagus hookeri* in Germany. *Journal of Applied Entomology* **135**: 351-358.

Collatz, J., Fuhrmann, A., Selzer, P., Oehme, R.M., Hartelt, K., Kimmig, P., Meiners, T., Mackenstedt, U. & Steidle, J.L.M. 2010. Being a parasitoid of parasites: Host-finding in the tick wasp *Ixodiphagus hookeri* (Howard) by odours from mammals. *Entomologia Experimentalis et Applicata* **134**: 131-137.

Collatz, J., Tolasch, T. & Steidle, J.L.M. **2009.** Mate finding in the parasitic wasp *Cephalonomia tarsalis* (Ashmead): More than one way to a female's heart. *Journal of Chemical Ecology* **35**: 761-768.

Schurmann, D., **Collatz, J.,** Hagenbucher, S. & Steidle, J.L.M. **2009.** Olfactory host finding, intermediate memory and its potential ecological adaptation in *Nasonia vitripennis*. *Naturwissenschaften* **96**: 383-391.

Hartelt, K., Wurst, E., **Collatz, J.,** Zimmermann, G., Kleespies, R., Oehme, R., Kimmig, P., Steidle, J.L.M. & Mackenstedt, U. **2008.** Biological control of the tick *Ixodes ricinus* with entomopathogenic fungi and nematodes: Preliminary results from laboratory experiments. *International Journal of Medical Microbiology* **298**: 314-320.

Collatz, J. & Steidle, J.L.M. 2008. Hunting for moving hosts: *Cephalonomia tarsalis*, a parasitoid of free-living grain beetles. *Basic and Applied Ecology* **9**: 452-457.

Wyss, U., **Collatz, J. & Steidle, J.L.M. 2007.** The granary weevil *Sitophilus granarius* and its natural enemy *Lariophagus distinguendus*. *Journal of Plant Diseases and Protection* **114**: 91.

Collatz, J., Müller, C. & Steidle, J.L.M. **2006.** Protein-synthesis dependent long-term memory induced by one single, non-spaced training in a parasitic wasp. *Learning and Memory* **13**: 263-266.

Müller, C., **Collatz, J.,** Wieland, R. and Steidle, J.L.M. **2006.** Associative learning and memory duration in the parasitic wasp *Lariophagus distinguendus*. *Animal Biology* **56**: 221-232.

Schulz, S., Fuhlendorff, J., Steidle, J.L.M., **Collatz, J.** and Franz, J.-T. **2004.** Identification and biosynthesis of an aggregation pheromone of the storage mite *Chortoglyphus arcuatus*. *ChemBioChem* **5**: 1500-1507.

Other publications

Collatz, J., Siffert, A., Cahenzli, F., Kehrli, P. **2022.** Les prédateurs de la Drosophile du cerisier. *Vignes et Vergers* **1**: 8-11.

Collatz, J., Siffert, A., Cahenzli, F., Kehrli, P. **2021.** Räuberische Gegenspieler der Kirschessigfliege. *Schweizer Zeitschrift für Obst- und Weinbau* **14**: 6-8.

Collatz, J., Hinz, H., Kaser, J.M. and Freimoser, F.M. **2021.** Chapter 6: Risks and Benefits. In: Mason P. (Ed.) *Biological control – Global Impacts, Challenges and Future Directions of Pest Management*. CSIRO Publishing, Canberra Australia, pp 142-165.

Gugerli, F., Moretti, M., Graf, R., Maier, M., Corrado, C., **Collatz, J.** and Trivellone, V. **2019.** Genetische Vielfalt von *Trichopria drosophilae*, einem Feind der Kirschessigfliege. *Agrarforschung Schweiz* **10**: 396-401.

Collatz, J. and Knoll, V. **2017.** Les parasitoïdes de *Drosophila* en Suisse et leur efficacité sur la drosophile du cerisier. *Revue suisse Viticulture, Arboriculture, Horticulture* **49**: 250-254.

Collatz, J. and Knoll, V. **2017.** Einheimische Schlupfwespen als Gegenspieler der Kirschessigfliege. *Schweizer Zeitschrift für Obst- und Weinbau* **15/17**: 4-6.

Collatz J., Knoll V., Ellenbroek T., Romeis J. **2017.** Parasitoids of *Drosophila* in Switzerland and their potential for biological control of the invasive *Drosophila suzukii*. *Proceedings of the 5th*

International Symposium on Biological Control of Arthropods (eds. P.G. Mason, D.R. Gillespie and C. Vincent), CAB International, pp. 245-247.

Schmid, G., Niedermayer, S., **Collatz, J.** and Steidle, J.L.M. **2012**. The long and smelly way to hosts – Long distance orientation of three parasitoids of stored product pests. *Mitteilungen der Dt. Gesellschaft für allgemeine und angewandte Entomologie* **18**: 223-226.

Hartelt, K., **Collatz, J.** and Wurst, E. **2005**. Biologische Zeckenbekämpfung: Erste Ergebnisse mit Pilzen und Erzwespen. *DGaaE-Nachrichten* **19**: 189-190.