

Complete list of publications

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Scientific publications and book chapters

2021

Wootton KL, A Curtsdotter, T Roslin, R Bommarco, T Jonsson 2021 Toward a modular theory of trophic interactions. *Functional ecology* in press

Herbertsson L, J Ekroos, M Albrecht, I Bartomeus, P Batáry, R Bommarco, P Caplat, T Diekötter, JM Eikestam, MH Entling, S Farbu, N Farwig, JP Gonzalez-Varo, AL Hassj, A Holzschuh, S Hopfenmüller, A Jakobsson, B Jauker, A Kovács-Hostyánszki, W Kleve, WE Kunin, SAM Lindström, S Mullen, E Öckinger, T Petanidou, SG Potts, EF Power, M Rundlöf, K Seibel, V Söber, A Söderman, I Steffan-Dewenter, JC Stout, T Teder, T Tschardtke, M Winsa, HG Smitha 2021 Bees increase wild plant reproductive success but landscape simplification has a variable effect on bee visitation rates and plant reproduction. *Plant ecology and evolution* in press

Miller K.E, Aguilera G, Bommarco R, Roslin T, 2021 Land-use intensity affects the potential for apparent competition within and between habitats. *Journal of animal ecology* in press

Aguilera G, Riggi LGA, Miller K, Roslin Tomas, Bommarco R. 2021. Organic fertilization suppresses aphid growth via carabids in the absence of specialist predators'. *Journal of applied ecology* in press

Luan X, R Bommarco, A Scaini, Giulia Vico 2021 Combined heat and drought suppress rainfed maize and soybean yields and modify irrigation benefits in the USA *Environmental Research Letters* in press

Viketoft M, Riggi LGA, Bommarco R, Hallin S, Taylor AR. 2021. Type of organic fertilizer rather than organic amendment per se increases abundance of soil biota. *PeerJ* 9:e11204

Lundin O, M Rundlöf, M Jonsson, R Bommarco, NM Williams 2020. Integrated pest and pollinator management - widening the concept. *Frontiers in Ecology and the Environment* *in press* DOI: 10.002/fee.2325

Ranheim Sveen, T, T Netherway, J Juhanson, J Oja, P Borgström, M Viketoft, J Strengbom, R Bommarco, K Clemmensen, S Hallin, M Bahram. 2021. Plant-microbe interactions in response to grassland herbivory and nitrogen eutrophication. *Soil Biology and Biochemistry* in press

Raderschall C.A., G. Vico, O. Lundin, A. Taylor, R. Bommarco. 2021. Water stress and insect herbivory interactively reduce crop yield while the insect pollination benefit is conserved. *Global change biology* 27(1):71-83 <https://doi.org/10.1111/gcb.15386>

Raderschall C.A., R. Bommarco, S. A.M. Lindström, O. Lundin. 2021. Landscape crop diversity and semi-natural habitat affect crop pollinators, pollination benefit and yield. *Agriculture ecosystems and environment* in press

Blasi M, I Bartomeus, R Bommarco, V Gagic, M Garratt, A Holzschuh, D Kleijn, SAM Lindström, P Olsson, C Polce, SG Potts, M Rundlöf, J Scheper, HG Smith, I Steffan-Dewenter, Y Clough 2021. Evaluating predictive performance of statistical models explaining wild bee abundance in a mass-flowering crop. *Ecography* 44(4):525-536

2020

Daniel-Ferreira J, R Bommarco, J Wissman, E Öckinger 2020. Linear infrastructure habitats increase landscape-scale diversity of plants but not of flower-visiting insects. *Scientific Reports* 10:21374

Tamburini, G, R Bommarco, TC Wanger, C Kremen, MGA van der Heijden, M Liebman, S Hallin 2020. Agricultural diversification promotes multiple ecosystem services without compromising yield. *Science Advances* 6(45) eaba1715 DOI: 10.1126/sciadv.aba1715

Tamburini, Giovanni, Giacomo Santoiemma, Megan O'Rourke, Riccardo Bommarco, Rebecca Chaplin-Kramer, Matteo Dainese, Daniel S. Karp, Tania N. Kim, Emily A. Martin, Matt Petersen, Lorenzo Marini. 2020. Species traits elucidate crop pest response to landscape composition: A global analysis. *Proc. R. Soc. B* 287: 20202116. <http://dx.doi.org/10.1098/rspb.2020.2116>

Marini, Lorenzo, Audrey St-Martin, Giulia Vico, Guido Baldoni, Antonio Berti, Andrzej Blecharczyk, Irena Malecka-Jankowiak, Francesco Morari, Zuzanna Sawinska, Riccardo Bommarco. 2020. Crop rotations sustain cereal yields under a changing climate. *Environmental Research Letters* 15 124011

Aguilera G., Roslin T., Miller K., Tamburini G., Birkhofer K., Caballero Lopez B., Lindström S.A.M., Öckinger E., Rundlöf M., Rusch A., Smith H., Bommarco R. 2020. Crop diversity benefits carabid and pollinator communities in landscapes with semi-natural habitats. *Journal of applied ecology* 57(11): 2170-2179 <https://doi.org/10.1111/1365-2664.13712>

Borgström P., R. Bommarco, M. Viketoft, J. Strengbom. 2020. Below-ground herbivory mitigates biomass loss from above-ground herbivory of nitrogen fertilized plants. *Scientific Reports* 10, 12752. <https://doi.org/10.1038/s41598-020-69696-3>

Albrecht Matthias , David Kleijn, Neal Williams, Matthias Tschumi, Brett Blaauw 5 , Riccardo Bommarco 6 , Alistair Campbell 7 , Matteo Dainese 8 , Frank Drummond 9 , Martin Entling 10 , Dominik Ganser 11 , Arjen De Groot 12 , David Goulson 13 , Heather Grab 14 , Hannah Hamilton 13 , Felix Herzog 15 , Rufus Isaacs 16 , Katja Jacot 4 , Philippe Jeanneret 4 , Mattias Jonsson 17 , Eva Knop 1 , Claire Kremen 18 , Doug Landis 16 , Greg Loeb 19 , Lorenzo Marini 20 , Megan McKerchar 21 , Lora Morandin 22 , Sonja Pfister 10 , Simon Potts 23 , Maj Rundlöf 24 , Hillary Sardiñas 25 , Amber Sciligo 26 , Carsten Thies 27 , Teja Tschardt 28 , Eric Venturini 29 , Eve Veromann 30 , Ines Vollhardt 31 , Felix Wäckers 32 , Kimiora Ward 3 , Andrew Wilby 33 , Megan Woltz 16 , Steve Wratten 34 , and Louis Sutter 12020. Global synthesis of the effectiveness of flower strips and hedgerows on pest control, pollination services and crop yield. *Ecology Letters* in press

Lundin Ola, Gerard Malsher, Carol Högfeldt, Riccardo Bommarco. 2020. Pest management and yield in spring oilseed rape without neonicotinoid seed treatments. *Crop protection* in press

Scaini Anna, David Andres Zamora Avila, John Livsey, Steve W. Lyon, Riccardo Bommarco, Martin Weih, Fernando Jaramillo, Stefano Manzoni. 2020. Hydro-climatic controls explain variations in catchment-scale nitrogen use efficiency. *Environmental Research Letters* 15 094006 <https://doi.org/10.1088/1748-9326/ab9691>

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Harvey JA, R Heinen, A-M Klein, I Armbrrecht, Y Basset, JH Baxter-Gilbert, M Bezemer, M Böhm, R Bommarco, PAV Borges, P Cardoso, V Clausnitzer, T Cornelisse, EE Crone, D Goulson, M Dicke, K-D B Dijkstra, L Dyer, J Ellers, Th Fartmann, ML Forister, MJ Furlong, A Garcia-Aguayo, J Gerlach, R Gols, J-Ch Habe, NM Haddad, CA Hallmann, S Henriques, ME Herberstein, A Hochkirch, AC Hughes, S Jepsen, T Hefin Jones, BM Kaydan, D Kleijn, T Latty, SR Leather, SM Lewis, BC Lister, JE Losey, EC Lowe, CR Macadam, J Montoya-Lerma, CD Nagano, S Ogan, MC Orr, CJ Painting, T-H Pham, SG Potts, A Rauf, TL Roslin, MJ Samways, F Sanchez-Bayo, SA Sar, CB Schultz, AO Soares, A Thancharoen, T Tschardt, JM Tylianakis, KDL Umbers, LEM Vet, MaE Visser, A Vujic, DL Wagner, MF WallisDevries, C Westphal, TE White, VL Wilkins, PH Williams, KAG Wyckhuys, Z-R Zhu, H de Kroon. 2020. International scientists formulate a roadmap for insect conservation and recovery. *Nature ecology & evolution* in press

2019

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