

CABI staff publications in 2019

CABI authors in bold (based on CABI address used)

Open access

Corresponding author where named

Agboyi, L.K., Mensah, S.A., Clottey, V.A., Beseh, P., Glikpo, R., **Rwomushana, I., Day, R. and Kenis, M.** (2019) Evidence of leaf consumption rate decrease in fall armyworm, *Spodoptera frugiperda*, larvae parasitized by *Coccygidium luteum*. *Insects* 10(410), 9 pp. <https://doi.org/10.3390/insects10110410>

Aigbedion-Atalor, P.O., Idemudia, I., Witt, A.B.R. and Day, M.D. (2019) First record of the impact of the parasitism of *Cecidochares connexa* (Diptera: Tephritidae) by a solitary larval ectoparasitoid in West Africa: Cause for concern? *Journal of Plant Diseases and Protection* 126(1), 93–95. <https://doi.org/10.1007/s41348-018-0189-x>

Augustinus, B., Sun, Y., Beuchat, C., **Schaffner, U.** and Müller-Schärer, H. (2019) Data from: Predicting impact of a biocontrol agent: Integrating distribution modelling with climate-dependent vital rates. *Dryad, Dataset*. <https://doi.org/10.5061/dryad.hs0r9c4>

Babendreier D., Wan M., Tang R., Tambo J., Liu Z., Grossrieder M., Kansime M., Wood A., Zhang F. and Romney D. (2019) Impact of integrated pest management in rice and maize in the Greater Mekong Subregion. *CABI Study Brief* 32(Impact), [14 pp.]. <https://dx.doi.org/10.1079/cabicomm-62-8117>

Babendreier, D., Wan, M., Tang, R., Gu, R., Tambo, J., Liu, Z., Grossrieder, M., Kansime, M., Wood, A., Zhang, F. and Romney, D. (2019) Impact assessment of biological control-based integrated pest management in rice and maize in the Greater Mekong Subregion. *Insects* 10(226), 16 pp. <https://doi.org/10.3390/insects10080226>

Baker, T., Whitehead, B., Musker, R. and Keizer, J. (2019) Global agricultural concept space: lightweight semantics for pragmatic interoperability. *npj Science of Food* 3(16), 8 pp. <https://doi.org/10.1038/s41538-019-0048-6>

Baroncelli, R., **Cafà, G.,** Castro, R.R.L., Bouffleur, T. and Massola Jr, N.S. (2019) Fungal Planet description sheet 1033. *Persoonia - Molecular Phylogeny and Evolution of Fungi* 43, 405–406. <https://doi.org/10.3767/persoonia.2019.43.06>

Bebber, D.P., Field, E., Gui, H., Mortimer, P., Holmes, T. and Gurr, S.J. (2019) Many unreported crop pests and pathogens are probably already present. *Global Change Biology* 25(8), 2703–2713. <https://doi.org/10.1111/gcb.14698>

Bhatti, H., Bajwa, B.E. and Honey, S.F. (2019) Biological control of aflatoxin causing organisms in agricultural commodities as an integrated environmentally safe approach. *International Journal of Agriculture & Biosciences* 8(4), 190–193. <http://www.ijagbio.com/pdf-files/volume-8-no-4-2019/190-193.pdf>

Bloukounon-Goubalan, A.Y., Saïdou, A., Obognon, N., Amadji, G.L., Igué, A.M., Clottey, V.A., Chrysostome, C.A.A.M., Kenis, M. and Mensah, G.A. (2019) Decomposition and nutrient release pattern of agro-processing by-products biodegraded by fly larvae in acrisols. *Archives of Agronomy and Soil Science* 65(11), 1610–1621. <https://doi.org/10.1080/03650340.2019.1572118>

Bloukounon-Goubalan, A.Y., Saïdou, A., Obognon, N., Amadji, G.M., Igué, A.M., Clottey, V.A. and Kenis, M. (2019) Decomposition and nutrient release pattern of animal manures biodegraded

- by fly larvae in acrisols. *Canadian Journal of Soil Science* 99(1), 60–69.
<https://doi.org/10.1139/cjss-2018-0076>
- Boafo, C.**, Affedzie-Obresi, S., Gbemavo, D.S.J.C., **Clottey, V.A.**, Nkegbe, E., Adu-Aboagye, G. and **Kenis, M.** (2019) Use of termites by farmers as poultry feed in Ghana. *Insects* 10(3):69, 13 pp.
<https://doi.org/10.3390/insects10030069>
- Boansi, D.**, **Tambo, J.A.** and Müller, M. (2018) Intra-seasonal risk of agriculturally-relevant weather extremes in West African Sudan Savanna. *Theoretical and Applied Climatology* 135(1–2), 355–373. <https://doi.org/10.1007/s00704-018-2384-x>
- Bras, A.**, Avtzis, D.N., **Kenis, M.**, **Li, H.**, Véték, G., Bernard, A., Courtin, C., Rousset, J., Roques, A. and Auger-Rozenberg, M.-A. (2019) A complex invasion story underlies the fast spread of the invasive box tree moth (*Cydalima perspectalis*) across Europe. *Journal of Pest Science* 92(3), 1187–1202. <https://doi.org/10.1007/s10340-019-01111-x>
- Cafà, G.**, **Caggiano, B.**, **Reeve, M.A.**, **Bhatti, H.**, **Honey, S.F.**, **Bajwa, B.** and **Buddie, A.G.** (2019) A polyphasic approach aids early detection of potentially toxigenic aspergilli in soil. *Microorganisms* 7(300), 14 pp. <https://doi.org/10.3390/microorganisms7090300>
- Caldara, R. and **Toševski, I.** (2019) *Rhinusa* Stephens: a taxonomic revision of the species belonging to the *R. linariae*, *R. herbarum*, *R. melas*, and *R. mauritii* groups (Coleoptera Curculionidae). *Zootaxa* 4679(2), 318–340. <https://doi.org/10.11646/zootaxa.4679.2.6>
- Cannon, P.F. and **Minter, D.W.** (2019) Fungicolous Hypocreales. [*Hypocreopsis lichenoides*, *H. rhododendri*, *Nectriopsis lecanodes*, *Neobarya peltigerae*, *N. xylariicola*, *Paranectria affinis*, *P. oropensis*, *Pronectria anisospora*, *P. oligospora*, *P. santessonii*]. *IMI Descriptions of Fungi & Bacteria* 220(2191–2200), [44 pp.].
- Caracciolo, C., Aubin, S., **Whitehead, B.** and Panagiotis, P. (2019) Semantics for data in agriculture: A community-based wish list. In: Garoufallou, E., Sartori, F., Siatiri, R. and Zervas, M. (eds) *Metadata and Semantic Research*. Springer International Publishing, 340–45.
https://doi.org/10.1007/978-3-030-14401-2_32
- Carvajal-Yepes, M., Cardwell, K., Nelson, A., Garrett, K.A., Giovani, B., Saunders, D.G.O., Kamoun, S., Legg, J.P., Verdier, V., Lessel, J., Neher, R.A., **Day, R.**, Pardey, P., Gullino, M.L., Records, A.R., Bextine, B., Leach, J.E., Staiger, S. and Tohme, J. (2019) A global surveillance system for crop diseases: Global preparedness minimizes the risk to food supplies. *Science* 364(6447), 1237–1239. <https://doi.org/10.1126/science.aaw1572>
- Chen, J., **Zhang, F.** Chen, L., Lou, Q., Shi, S., **Mi, Q.** and **Zhang, J.** (2019) 基于茶翅蝽文献量学的国内外研究现状. [Bibliometric analysis and research progress of *Halyomorpha halys* (Stål). In Chinese with English abstract.] *China Plant Protection Guide* (12), unpaginated.
- Cheng, Y., Zhang, Y., Wang, G., Guo, C. and **Li, H.** (2019) 自然环境中地面温度对亚洲小车蝗体温的影响 [Effect of ground surface temperature on body temperature of *Oedaleus decorus asiaticus* under natural habitat. In Chinese with English abstract.] *Plant Protection* 45(2), 64–67. [In Chinese with English abstract.] <https://doi.org/10.16688/j.zwbh.2018499>
- Cherix, D., Ebener, A., **Kenis, M.** and Abderhalden, M. (2019) Asiatische Hornisse – wo stehen wir heute? *Schweizerische Bienen-Zeitung* 2019(3), 16–18.
- Cherix, D., Ebener, A., **Kenis, M.** and Abderhalden, M. (2019) Le Frelon asiatique – où en sommes-nous aujourd’hui? *Revue Suisse d’apiculture* 2019(3), 43–47.
- Claerebout, S., **Haye, T.**, Ólafsson, E., Pannier, É. and Bultot, J. [2019] Premières occurrences de *Halyomorpha halys* (Stål, 1855) pour la Belgique et actualisation de sa répartition en Europe (Hemiptera: Heteroptera: Pentatomidae). *Bulletin de la Société royale belge*

- d'Entomologie/Bulletin van de Koninklijke Belgische Vereniging voor Entomologie* 154 (2018), 205–227.
- Cock, M.J.W.** (2019) Donkey's eyes, *Junonia* spp. (Lepidoptera, Nymphalidae), in Trinidad and Tobago. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2019, 14-20. <https://ttfnc.org/livingworld/index.php/lwj/article/view/723>
- Cock, M.J.W.** (2019) Field-identification of the *Caligo* butterflies (Nymphalidae, Brassolinae) of Trinidad and Tobago. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2019, 37-39. <https://ttfnc.org/livingworld/index.php/lwj/article/view/738>
- Cock, M.J.W.** (2019) Unravelling the status of partially identified insect biological control agents introduced to control insects: an analysis of BIOCAT2010. *BioControl* 64(1), 1–7. <https://doi.org/10.1007/s10526-018-09921-1>
- Cock, M.J.W.** and Alston-Smith, S. (2019) *Oxyntes corusca* (Herrich-Schäffer) (Lepidoptera, HesperIIDae), an overlooked butterfly record from Trinidad, West Indies, with notes on the caterpillar. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2019, 45-46. <https://ttfnc.org/livingworld/index.php/lwj/article/view/729>
- Cock, M.J.W., Buddie, A.G. and Cafa. G.** (2019) Piloting the use of DNA barcoding in support of natural enemy surveys: new parasitoid records for banana skippers (Erionota spp., HesperIIDae, Lepidoptera) in Malaysia. *Journal of Asia-Pacific Entomology* 22(1), 183–188. <https://doi.org/10.1016/j.aspen.2018.12.019>
- Cock, M.J.W.;** Polar, P.; Rutherford, M., **Cafá, G.** and **Buddie, A.** (2019) *Hypercompe trinitatis* (Lepidoptera, Erebidae, Arctiinae) and its caterpillar in Trinidad, West Indies. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2019, 21-27. <https://ttfnc.org/livingworld/index.php/lwj/article/view/726>
- Colmenarez, Y., Corniani, N. and Jenner, W.** (2019) Plantwise: improving food security through better Plant Health System. In: Precision Phytopathology Frontiers of Science. Fundação de Estudos e Pesquisas Agrícolas e Florestais, Botucatu, Brazil, pp. 187–211.
- Costi, E., Hays, T. and Maistrello, L.** (2019) Surveying native egg parasitoids and predators of the invasive *Halyomorpha halys* in Northern Italy. *Journal of Applied Entomology* 143(3), 299–307. <https://doi.org/10.1111/jen.12590>
- Crozier, J. and Flood, J.** (2019) The importance of plant health to food security. In: Cangao, C.A.T., Rusman, A., Chandrabalan, D. and Ahmad, Y. (eds) TROPED '18. Proceedings International Conference on Tropical Fruit Pests and Diseases 'Sustainable Solutions for Tropical Fruit Pests and Diseases', Kota Kinabalu, Sabah, Malaysia 25–27 September 2018. International Tropical Fruits Network (TFNet), Selangor, Malaysia, pp. 31–36. <http://itfnet.org/troped2018/index.php>
- Danielsen, S.,** Kajura, C., **Mulema, J., Taylor, R., Kansiime, M., Alokit, C.,** Tukahirwa, B. and Schelling, E. (2019) Reaching for the low hanging fruits: One health benefits of joint crop–livestock services for small-scale farmers. *One Health* 7: 100082. <https://doi.org/10.1016/j.onehlt.2019.100082>
- Day, M.D. and Witt, A.B.R.** (2019) Weed biological control: challenges and opportunities. *Weeds – Journal of Asian-Pacific Weed Science Society* 1(2), 34–44.
- Devos, Y.,** Craig, W., Devlin, R.H., Ippolito, A., Leggatt, R.A., Romeis, J., **Shaw, R.,** Svendsen, C. and Topping, C.J. (2019) Using problem formulation for fit-for-purpose pre-market environmental risk assessments of regulated stressors. *EFSA Journal* 17(S1):e170708, 31 pp. <https://doi.org/10.2903/j.efsa.2019.e170708>

- Dilipkumar, M., Erwan-Shah, S., Anuar, A. and Sivapragasam, A. (2019) A sex pheromone-baited trapping system for management of sweetpotato weevil, *Cylas formicarius* (Coleoptera: Brentidae). *Journal of Applied Entomology* 143, 408–416. <https://doi.org/10.1111/jen.12602>
- Dougoud, J., Toepfer, S., Bateman, M., and Jenner, W.** (2019) Efficacy of homemade botanical insecticides based on traditional knowledge. A review. *Agronomy for Sustainable Development* 39:37, 22 pp. <https://doi.org/10.1007/s13593-019-0583-1>
- Dowlath, P. and **Ramnanan, N.** [2019] Attitudes, knowledge and practices for Trinidad vegetable farmers and their predisposition to adopting IPM strategies in the management of crop diseases. *Tropical Agriculture* 95(Special Issue 2) (2018), 103–111.
- Eschen, R.,** De Groot, M, Glavendekić, M., Lacković, N., Matosević, D., Morales-Rodriguez, C., Hanlon, R.O., Oskay, F., Papazova, I., Prospero, S. and **Franić, I.** (2019) Spotting the pests of tomorrow—Sampling designs for detection of species associations with woody plants. *Journal of Biogeography* 46(10), 2159–2173. <https://doi.org/10.1111/jbi.13670>
- Eschen, R.,** O'Hanlon, R., Santini, A., Vannini, A., Roques, A., Kirichenko, N. and **Kenis, M.** (2019) Safeguarding global plant health: the rise of sentinels. *Journal of Pest Science* 92, 29–36. <https://doi.org/10.1007/s10340-018-1041-6>
- Faheem, M., Saeed, S., Sajjad, A., Wang, S. and Ali, A.** (2019) Spatio-temporal variations in wheat aphid populations and their natural enemies in four agroecological zones of Pakistan. *PLoS ONE* 14(9):e0222635, 14 pp. <https://doi.org/10.1371/journal.pone.0222635>
- Fang, Y., Wu, H., Wang, J.-X., Dou, W.-J., Zhang, X.-M., **Zhang, F.**, Xiao, C. and **Chen, G.-H.** (2019) 云南省斑翅果蝇寄生性天敌昆虫种类调查 [Investigation on the species of parasitic natural enemies of *Drosophila suzukii* in Yunnan. In Chinese with English abstract.] *Journal of Environmental Entomology* 41(3), 592–598. <https://doi.org/10.3969/j.issn.1674-0858>
- FAO and **CABI** (2019) Community-based fall armyworm (*Spodoptera frugiperda*) monitoring, early warning and management. Training of trainers manual. First edition. FAO, Rome, Italy and CABI, Wallingford, UK, 112 pp.
- FAO and **CABI** (2019) Fall Armyworm Field Handbook: Identification and Management. First Edition. FAO, Rome, Italy and CABI, Wallingford, UK, 38 pp. <https://www.cabi.org/isc/abstract/20197200644>
- Franić, I.,** Prospero, S., Hartmann, M., Allan, E., Auger-Rozenberg, M.-A., Grünwald, N.J., **Kenis, M.,** Roques, A., Schneider, S., Snieszko, R., Williams, W. and **Eschen, R.** (2019) Are traded forest tree seeds a potential source of nonnative pests? *Ecological Applications* 29(7), e01971, 16 pp. <https://doi.org/10.1002/eap.1971>
- Ganda, H.,** Zannou-Boukari, E.T., **Kenis, M.,** Chrysostome, C.A.A.M. and Mensah, G.A. (2019) Potentials of animal, crop and agri-food wastes for the production of fly larvae. *Journal of Insects as Food and Feed* 5(2), 59–67. <https://doi.org/10.3920/jiff2017.0064>
- Gaskin, J.F.,** Andrés, J.A., Bogdanowicz, S.M., Guilbault, K.R., Hufbauer, R.A., **Schaffner, U., Weyl, P.** and Williams, L., III (2019) Russian-olive (*Elaeagnus angustifolia*) genetic diversity in the western United States and implications for biological control. *Invasive Plant Science and Management* 12(2), 89–96. <https://doi.org/10.1017/inp.2019.16>
- Ghosh, S., Taron, A. and **Williams, F.** (2019) The impact of plant clinics on the livelihoods of Bangladeshi farmers. *CABI Study Brief* 29(Impact), [8 pp.]. <https://dx.doi.org/10.1079/CABICOMM-62-8107>
- Gillespie, D.R.,** Broadbent, A.B., Mason, P.G., **Haye, T.,** Clarke, P., Goettel, M.S. and Leung, B. (2019) Use of life tables to predict the impact of introducing exotic parasitoids, against the

- cabbage seedpod weevil in North America. *Biocontrol Science and Technology* 29(10), 940–964. <https://doi.org/10.1080/09583157.2019.1625028>
- González-Moreno, P.**, and 86 authors, including **Kenis, M.** (2019) Consistency of impact assessment protocols for non-native species. *NeoBiota* 44, 1–25. <https://doi.org/10.3897/neobiota.44.31650>
- Gupta, A.**, Achterberg, C. van, Ballal, C.R., **Maczey, N.**, **Djeddour, D.**, Bhutia, S.G. and Rajeshwari, S.K. (2019) Two new species of *Rhogadopsis* Brèthes (Braconidae: Opiinae) as solitary parasitoids of *Merochlorops* species complex (Diptera: Chloropidae) from India. *Zootaxa* 4550(2), 268–276. <https://doi.org/10.11646/zootaxa.4550.2.7>
- Harrison, R.D.**, Thierfelder, C., Baudron, F., Chinwada, P., Midega, C., **Schaffner, U.** and Berg, J. van den (2019) Agro-ecological options for fall armyworm (*Spodoptera frugiperda* JE Smith) management: Providing low-cost, smallholder friendly solutions to an invasive pest. *Journal of Environmental Management* 243, 318–330. <https://doi.org/10.1016/j.jenvman.2019.05.011>
- Heeb, L.**, **Jenner, E.** and **Cock, M.J.W.** (2019) Climate-Smart Pest Management: building resilience of farms and landscapes to changing pest threats. *Journal of Pest Science* 92(3), 951–969. <https://doi.org/10.1007/s10340-019-01083-y>
- Hernández-Vera, G.**, **Toševski, I.**, Caldara, R. and Emerson, B.C. (2019) Evolution of host plant use and diversification in a species complex of parasitic weevils (Coleoptera: Curculionidae). *PeerJ* 7:e6625, 21 pp. <https://doi.org/10.7717/peerj.6625>
- Hinz, H.**, Bon, M-C., Bourdôt, G., Cristofaro, M., Desurmont, G., **Kurose, D.**, Müller-Schärer, H., Rafter, M., **Schaffner, U.**, **Seier, M.**, Sforza, R., Smith, L., **Stutz, S.**, **Thomas, S.**, **Weyl, P.** and Winston, R. (eds) (2019) XV International Symposium on Biological Control of Weeds, 26–31 August 2018, Engelberg, Switzerland. US Forest Service, Morgantown, WV, USA, xix + 331 pp. <https://www.ibiocontrol.org/proceedings/>
- Hinz, H.**, **Weyl, P.**, **Smith, D.** and **Djeddour, D.** (2019) The Nagoya Protocol: implications for classical biological control of invasive plant species. In: **Hinz, H.**, Bon, M-C., Bourdôt, G., Cristofaro, M., Desurmont, G., **Kurose, D.**, Müller-Schärer, H., Rafter, M., **Schaffner, U.**, **Seier, M.**, Sforza, R., Smith, L., **Stutz, S.**, **Thomas, S.**, **Weyl, P.** and Winston, R. (eds) XV International Symposium on Biological Control of Weeds, 26–31 August 2018, Engelberg, Switzerland. US Forest Service, Morgantown, WV, USA, 206–211. <https://www.ibiocontrol.org/proceedings/>
- Hinz, H.L.**, **Schaffner, U.**, Bouchier, R.S., Schwarzländer, M. and Weed, A. (2019) Comment on Havens and colleagues (2019). *Bioscience* 69(11), 853. <https://doi.org/10.1093/biosci/biz110>
- Hinz, H.L.**, Winston, R.L. and Schwarzländer, M. (2019) How safe is weed biological control? A global review of direct non-target attack. *Quarterly Review of Biology* 94(1), 1-27. <https://doi.org/10.1086/702340>
- Holmes, K.**, **Babendreier, D.**, **Bateman, M.**, **Chaudhary, M.**, **Grunder, J.**, **Mulaa, M.**, **Durocher-Granger, L.** and **Faheem, M.** (2019) Biopesticides manual: guidelines for selecting, sourcing, producing and using biopesticides for key pests of tobacco. CABI, Wallingford, UK, xi + 145 pp.
- Kansiime, M.K.**, **Alawy, A.**, Allen, C., Subharwal, M., Jadhav, A. and **Parr, M.** (2019) Effectiveness of mobile agri-advisory service extension model: evidence from Direct2Farm program in India. *World Development Perspectives* 13, 25–33. <https://doi.org/10.1016/j.wdp.2019.02.007>
- Kansiime, M.K.**, **Mugambi, I.**, **Rwomushana, I.**, **Nunda, W.**, **Lamontagne-Godwin, J.**, **Rware, H.**, **Phiri, N.A.**, Chipabika, G., Ndlovu, M. and **Day, R.** (2019) Farmer perception of fall armyworm (*Spodoptera frugiperda* J.E. Smith) and farm-level management practices in Zambia. *Pest Management Science* 75(10), 28400–2850. <https://doi.org/10.1002/ps.5504>

- Kenfack Voukeng, S.N.**, Coombes, C., **Weyl, P.**, Djeugoue, F. and Hill M.P. (2019) Morphological identification of fungi associated with *Eichhornia crassipes* (Mart.-Solms) Laubach in the Wouri River Basin, Douala, Cameroon. *African Journal of Aquatic Science* 44, 195–208.
<https://doi.org/10.2989/16085914.2019.1636760>
- Kenfack Voukeng, S.N.**, **Weyl, P.**, Hill, M.P. and Chi, N. (2019) The attitudes of riparian communities to the presence of water hyacinth in the Wouri River Basin, Douala, Cameroon. *African Journal of Aquatic Science* 44(1), 7–13.
<https://doi.org/10.2989/16085914.2018.1538868>
- Kenis, M.** and **Li, H.** (2019) Impact de la pyrale du buis en Europe et potentiel de la lutte biologique par l'introduction de parasitoids. Colloque Scientifique sur les Bioagresseurs du Buis, 16–17 octobre 2018, Tours, France. Végéphyll, Alfortville, France, pp. 167–172.
- Kenis, M.**, Hurley, B.P., Colombari, F., Lawson, S., Sun, J., Wilken, C., Weeks, R. and Sathyapala, S. (2019) Guide to the classical biological control of insect pests in planted and natural forests. FAO Forestry Paper 182. Food and Agriculture Organization of the United Nations, Rome, Italy, x + 96 pp. www.fao.org/3/ca3677en/ca3677en.pdf
- Kenis, M.**, Plessis, H. du, Van den Berg, J., Ba, M.N., Goergen, G., Kwadjo, K.E., Baoua, I., **Buddie, A.**, **Cafà, G.**, **Offord, L.**, **Rwomushana, I.** and Polaszek, A. (2019) *Telenomus remus*, a candidate parasitoid for the biological control of *Spodoptera frugiperda* in Africa, is already present on the continent. *Insects* 10(4): 92, 10 pp. <https://doi.org/10.3390/insects10040092>
- Khan, A., **Honey, S.F.**, **Bajwa, B.**, Jamil, N. and **Mazhar, M.S.** (2019) Responses of *Cydia pomonella* (L.) reared on different artificial diets under laboratory conditions. *Sarhad Journal of Agriculture* 35(2), 386-391. <http://dx.doi.org/10.17582/journal.sja/2019/35.2.386.391>
- Kirichenko, N., Augustin, S., and **Kenis, M.** (2018) Invasive leafminers on woody plants: a global review of pathways, impact and management. *Journal of Pest Science* 92(1), 93–106.
<https://doi.org/10.1007/s10340-018-1009-6>
- Konopka, J.K.**, Garipey, T.D., **Haye, T.**, **Zhang, J.**, Rubin, B.D. and McNeil, J.N. (2019) Exploitation of pentatomids by native egg parasitoids in the native and introduced ranges of *Halyomorpha halys*: a molecular approach using sentinel egg masses. *Journal of Pest Science* 92(2), 609–619.
<https://doi.org/10.1007/s10340-018-01071-8>
- Kosovac, A., Jakovljević, M., Krstić, O., Cvrković, T., Mitrović, M., **Toševski, I.** and **Jović, J.** (2018) Role of plant-specialized *Hyalesthes obsoletus* associated with *Convolvulus arvensis* and *Crepis foetida* in the transmission of 'Candidatus Phytoplasma solani'-inflicted bois noir disease of grapevine in Serbia. *European Journal of Plant Pathology* 153(1), 183-195.
<https://doi.org/10.1007/s10658-018-1553-1>
- Kyaw, H.W.W., Tsuchiya, K., Matsumoto, M., Aye, S.S., **Iiyama, K.**, **Kurose, D.**, Horita, M., Furuya, N. (2018) Molecular characterization of *Ralstonia solanacearum* strains causing bacterial wilt of solanaceous crops in Myanmar by rep-PCR analysis. *Journal of General Plant Pathology* 85(1), 33–38. <https://doi.org/10.1007/s10327-018-0818-z>
- Lamontagne-Godwin, J.**, Cardey, S., **Williams, F.E.**, Dorward, P.T., **Aslam, N.** and **Almas, M.** (2019) Identifying gender-responsive approaches in rural advisory services that contribute to the institutionalisation of gender in Pakistan. *Journal of Agricultural Education and Extension* 25(3), 267–288. <https://doi.org/10.1080/1389224X.2019.1604392>
- Lamontagne-Godwin, J.**, Dorward, P., **Ali, I.**, **Aslam, N.** and Cardey, S. (2019) An approach to understand rural advisory services in a decentralised setting. *Social Sciences* 8(3): 103, 18 pp.
<https://doi.org/10.3390/socsci8030103>

- Lamontagne-Godwin, J., Dorward, P., Aslam, N. and Cardey, S.** (2019) Analysing support towards inclusive and integrated rural advisory systems. *Social Sciences* 8(295), 18 pp. <https://doi.org/10.3390/socsci8100295>
- Li, H., Wan, M., Gu, R., Liu, L., Nie, F., Wang, Z. and Zhang, F.** (2019) 基于文献计量学的重大入侵害虫草地贪夜蛾的研究动态分析 [Bibliometric analysis on research progress of invasive insect pest fall armyworm, *Spodoptera frugiperda*. In Chinese with English abstract.] *Plant Protection* 45(4), 34–42.
- Linders, T.E.W., Schaffner, U., Eschen, R., Abebe, A., Choge, S.K.; Nigatu, L.; Mbaabu, P.M., Shiferaw, H. and Allan, E.** (2019) Direct and indirect effects of invasive species: Biodiversity loss is a major mechanism by which an invasive tree affects ecosystem functioning. *Journal of Ecology* 107(6), 2660–2672. <https://doi.org/10.1111/1365-2745.13268>
- Liu, Y., Cheng, Y., Li, H., Nong, X. and Luke, B.** (2019) 不同温度下绿僵菌对东亚飞蝗3龄蝗蛹的致病力影响 [Virulence of *Metarhizium anisopliae* against 3rd instar nymphs of *Locusta migratoria manilensis* under different temperatures. In Chinese with English abstract.] *Chinese Journal of Biological Control* 35(4), 642–647. <https://doi.org/10.16409/j.cnki.2095-039x.2019.04.021>
- Liverpool-Tasie, L.S.O., Sanou, A. and Tambo, J.A.** (2019) Climate change adaptation among poultry farmers: evidence from Nigeria. *Climatic Change* 157(3-4), 527–544. <https://doi.org/10.1007/s10584-019-02574-8>
- Lohano, H.D., Mari, F.M., Stewart, J., Ali, I. and Romney, D.** (2019) Improving the safety and quality of cotton production in Pakistan. *CABI Study Brief* 30(Impact), [7 pp.]. <https://dx.doi.org/10.1079/cabicomm-62-8106>
- Macey, N., Moore, D., González-Moreno, P. and Rendell, N.** (2019) Introduction of biological control agents against the European earwig (*Forficula auricularia*) on the Falkland Islands. In: Veitch, C.R., Clout, M.N., Martin, A.R., Russell, J.C. and West, C.J. (eds.) *Island invasives: scaling up to meet the challenge*. Occasional Paper SSC no. 62. IUCN, Gland, Switzerland, pp. 389–393. <https://doi.org/10.2305/IUCN.CH.2019.SSC-OP.62.en>
- Marelli, J.P., Guest, D.I., Bailey, B.A., Evans, H.C., Brown, J.K., Junaid, M., Barreto, R.W., Lisboa, D.O. and Puig, A.S.** (2019) Chocolate under threat from old and new cacao diseases. *Phytopathology* 109(8), 1331–1343. <https://doi.org/10.1094/phyto-12-18-0477-rvw>
- Martin, E.A., and 64 coauthors including Stutz, S.** (2019) The interplay of landscape composition and configuration: new pathways to manage functional biodiversity and agroecosystem services across Europe. *Ecology Letters* 22, 1083–1094. <https://doi.org/10.1111/ele.13265>
- McConnachie, A. and Witt, A.** (2019) History and management – East and North Africa, and the Middle East. In: Adkins, S., Shabbir, A. and Dhileepan, K. (eds) *Parthenium Weed: Biology, Ecology and Management*. CABI Invasives Series 8. CABI, Wallingford, UK, pp. 287–302.
- Minter, D.W.** (2019) *Glugea* (Microsporidia). [*Glugea anomala*, *G. atherinae*, *G. capverdensis*, *G. caulleryi*, *G. heraldi*, *G. hertwigi*, *G. plecoglossi*, *G. stephani*, *G. vincentiae*, *G. weissenbergi*]. *IMI Descriptions of Fungi & Bacteria* 221(2201–2210), [46 pp.].
- Minter, D.W. and Cannon, P.F.** (2019) Ascobolaceae on dung. [*Saccobolus beckii*, *S. citrinus*, *S. eleutherosporus*, *S. minimus*, *S. quadrisporus*, *S. truncatus*, *Thecotheus crustaceus*, *T. holmskjoldii*, *T. keithii*, *T. pelletieri*]. *IMI Descriptions of Fungi & Bacteria* 219(2181–2190), [45 pp.].
- Misawa, T. and Kurose, D.** (2019) Anastomosis group and subgroup identification of *Rhizoctonia solani* strains deposited in the NARO Genebank, Japan. *Journal of General Plant Pathology* 85(4), 282–294. <https://doi.org/10.1007/s10327-019-00848-8>

- Morales-Rodríguez, C., and 34 coauthors including **Eschen, R., Franić, I. and Kenis, M.** (2019) Forewarned is forearmed: harmonized approaches for early detection of potentially invasive pests and pathogens in sentinel plantings. *NeoBiota* 47, 95–123. <https://doi.org/10.3897/neobiota.47.34276>
- Musebe, R.O., Mugambi, I., Williams, F., Mula, M., Nambiro, E. and Chege, F.** (2019) Gender differences in the use of plant health information services: a case of plant clinics under Plantwise Program in Kenya. *African Journal of Agricultural Research* 13(51), 2862–2871. <https://doi.org/10.5897/AJAR2018.13090>
- Nahiyo, A.A.**, Fayyaz, S. and Kazi, N. (2019) New and known nematodes associated with cotton plantation in Sindh, Pakistan. *Pakistan Journal of Zoology* 51(4), 1309–1314. <http://dx.doi.org/10.17582/journal.pjz/2019.51.4.1309.1314>
- Negussie, A., Norgrove, L., Achten, W., Nacro, S., **Kenis, M.**, Hermy, M., and Muys, B. (2019) 22. Lessons on alien biofuel crops invasiveness risk assessment: based on practical experiences from *Jatropha curcas* L. in Southern and West Africa. In: Hadgu, K.M., Bishaw, B., Iiyama, M., Birhane, E., Negussie, A., Davis, C.M. and Bernart, B. (eds) Climate-smart Agriculture. Enhancing Resilient Agricultural Systems, Landscapes, and Livelihoods in Ethiopia and Beyond. World Agroforestry (ICRAF), Nairobi, Kenya, pp. 243–251. <http://www.worldagroforestry.org/downloads/publications/pdfs/b19055.pdf>
- Nóbrega, T.F., Ferreira, H.C., B.W., **Evans, H.C.** and Barreto, R.W. (2019) Fungal Planet description sheet 1017. *Persoonia - Molecular Phylogeny and Evolution of Fungi* 43, 373–374. <https://doi.org/10.3767/persoonia.2019.43.06>
- Novoa, A., Brundu, G., Day, M.D., Deltoro, V., Essl, F., Foxcroft, L.C., Fried, G., Kaplan, H., Kumschick, S., Lloyd, S., Marchante, E., Marchante, H., Paterson, I.D., Pyšek, P., Richardson, D.M., **Witt, A.**, Zimmermann, H.G. and Wilson, J.R.U. (2019) Global actions for managing cactus invasions. *Plants* 2019, 8(10), 421, 27 pp. <https://doi.org/10.3390/plants8100421>
- Ochilo, W.N.**, Nyamasyo, G.N., Kilalo, D., **Otieno, W.**, Otipa, M., **Chege, F.**, Karanja, T. and Lingeera, E. (2019). Characteristics and production constraints of smallholder tomato production in Kenya. *Scientific African* 2, e00014. <https://doi.org/10.1016/j.sciaf.2018.e00014>
- Ochilo, W.N.**, Nyamasyo, G.N., Kilalo, D., **Otieno, W.**, Otipa, M., **Chege, F.**, Karanja, T. and Lingeera, E.K. (2019) Ecological limits and management practices of major arthropod pests of tomato in Kenya. *Journal of Agricultural Science and Practice* 4(2), 29–42. <https://doi.org/10.31248/JASP2019.124>
- Ochilo, W.N., Ruffhead, H., Rumsey, A., Chege, F., Lusweti, C., Oronje, M. and Otieno, W.** (2019) Can you ensure that ICT for development apps are downloaded and used? A case study of the Plantwise Data Collection app for Plant Health in Kenya. *Journal of Agricultural & Food Information* 20(3) 237–253. <https://doi.org/10.1080/10496505.2019.1609967>
- Park, I., Schwarzländer, M., **Hinz, H.L., Schaffner, U.** and Eigenbrode, S.D. (2019) A simple approach to evaluate behavioral responses of insect herbivores to olfactory and visual cues simultaneously: the double stacked y-tube device and portable volatile collection system. *Arthropod-Plant Interactions* 13(1), 139–149. <https://doi.org/10.1007/s11829-018-9663-4>
- Paterson, I.D., Coetzee, J.A., **Weyl, P.**, Griffith, T.C., Voogt, N. and Hill, M.P. (2019) Cryptic species of a water hyacinth biological control agent revealed in South Africa: host specificity, impact, and thermal tolerance. *Entomologia Experimentalis et Applicata* 167, 682–691. <https://doi.org/10.1111/eea.12812>

- Pecchia, S., Caggiano, B., Lio, D.D., **Cafà, G.**, Le Floch, G. and **Baroncelli, R.** (2019) Molecular detection of the seed-borne pathogen *Colletotrichum lupini* targeting the hyper-variable IGS region of the ribosomal cluster. *Plants* 8(222), 16 pp. <https://doi.org/10.3390/plants8070222>
- Pomalégni, S.C.B., **Kpadé, C.P.**, Gbemavo, D.S.J.C., **Clottey, V.A.**, **Kenis, M.** and Mensah, G.A. (2019) Traditional poultry farmers' willingness to pay for using fly larvae meal as protein source to feed local chickens in Benin. *Bio-based and Applied Economics* 7(2), 117–138. <https://doi.org/10.13128/bae-7671>
- Pousga, S.**, Sankara, F., Coulibaly, K., Nacoulma, J.P., Ouedraogo, S., **Kenis, M.**, Chrysostome, C. and Ouedraogo, G.A. (2019) Effets du remplacement de la farine de poisson par les termites (*Macrotermes* sp.) sur l'évolution pondérale et les caractéristiques de carcasse de la volaille locale au Burkina Faso. *African Journal of Food, Agriculture, Nutrition and Development* 19(2), 14354-14371. <https://doi.org/10.18697/ajfand.85.17430>
- Prasad, A.K., **Roy, S.**, **Neave, S.**, Sarma, A.J., Phukan, P.J., Rahman, A., Muraleedharan, N. and Mukhopadhyay, A. (2019) Sticky bands as effective tools to manage looper pests (Lepidoptera: Geometridae) in tea crops. *Entomologia Generalis* 39(3–4), 347–351. <https://doi.org/10.1127/entomologia/2019/0735>
- Reeve, M.A.** and **Bachmann, D.** (2019) A method for filamentous fungal growth and sample preparation aimed at more consistent MALDI-TOF MS spectra despite variations in growth rates and/or incubation times. *Biology Methods and Protocols* 4(1), 3, 1–14. <https://doi.org/10.1093/biomethods/bpz003>
- Reeve, M.A.** and Pollard, K.M. (2019) MALDI-TOF MS-based analysis of dried seed proteins immobilized on filter paper. *Biology Methods and Protocols* 4(1), bpz007, 12 pp. <https://doi.org/10.1093/biomethods/bpz007>
- Reeve, M.A.** and **Seehausen, M.L.** (2019) Discrimination between Asian populations of the parasitoid wasp *Ganaspis* cf. *brasiliensis* using a simple MALDI-TOF MS-based method for use with insects. *Biology Methods and Protocols* 4(1), 1–8. <https://doi.org/10.1093/biomethods/bpz002>
- Reeve, M.A.**, **Bachmann, D.** and **Caine, T.S.** (2019) Identification of *Penicillium* species by MALDI-TOF MS analysis of spores collected by dielectrophoresis. *Biology Methods and Protocols* 4(1), bpz018, 1-15. <https://doi.org/10.1093/biomethods/bpz018>
- Reeve, M.A.**, **Caine, T.S.** and **Buddie, A.G.** (2019) Spectral grouping of nominally *Aspergillus versicolor* microbial-collection deposits by MALDI-TOF MS. *Microorganisms* 7(235), 15 pp. <https://doi.org/10.3390/microorganisms7080235>
- Reeve, M.A.**, **Stewart, H.** and **Ryan, M.J.** (2019) MALDI-TOF MS spectral variation is observed between fungal samples grown under identical conditions after long-term storage by cryopreservation, freeze-drying, and under oil. *CryoLetters* 40(3), 145–151.
- Roy, H.E.**, and 43 authors including **Kenis, M.** (2019) Developing a list of invasive alien species likely to threaten biodiversity and ecosystems in the European Union. *Global Change Biology* 25, 1032–1048. <https://doi.org/10.1111/gcb.14527>
- Rwomushana, I.**, **Beale, T.**, Chipabika, G., **Day, R.**, **Gonzalez-Moreno, P.**, **Lamontagne-Godwin, J.**, **Makale, F.**, **Pratt, C.** and **Tambo, J.** (2019) Evidence Note. Tomato leafminer (*Tuta absoluta*): impacts and coping strategies for Africa. *CABI Working Paper* 12, 56 pp.
- Ryan, M.J.**, McCluskey, K., Verkleij, G., Robert, V. and **Smith, D.** (2019) Fungal biological resources to support international development: challenges and opportunities. *World Journal of Microbiology and Biotechnology* 35(139), 13 pp. <https://doi.org/10.1007/s11274-019-2709-7>

- Sabbatini Peverieri, G., [Mitroiu, M.-D.](#), Bon, M.-C., Balusu, R., Benvenuto, L., Bernardinelli, I., Fadamiro, H., Falagiarda, M., Fusu, L., Grove, E., **Haye, T.**, Hoelmer, K., Lemke, E., Malossini, G., Marianelli, L., Moore, M.R., Pozzebon, A., Roversi, P.-F., Scaccini, D., Shrewsbury, P., Tillman, G., Tirello, P., Waterworth, R. and Talamas, E.J. (2019) Surveys of stink bug egg parasitism in Asia, Europe and North America, morphological taxonomy, and molecular analysis reveal the Holarctic distribution of *Acroclisoides sinicus* (Huang & Liao) (Hymenoptera, Pteromalidae). *Journal of Hymenoptera Research* 74, 123–151. <https://doi.org/10.3897/jhr.74.46701>
- [Sanou, A.G.](#), Sankara, F., Pousga, S., Coulibaly, K., Nacoulma, J.P., Ouedraogo, I., Nacro, S., **Kenis, M.**, Sanon, A. and Somda, I. (2019) Production de masse de larves de *Musca domestica* L. (Diptera: Muscidae) pour l'aviculture au Burkina Faso: Analyse des facteurs déterminants en oviposition naturelle. *Journal of Applied Bioscience* 134, 13689–13701. <https://dx.doi.org/10.4314/jab.v134i1.6> [https://m.elewa.org/Journals/wp-content/uploads/2019/02/6.Sanou .pdf](https://m.elewa.org/Journals/wp-content/uploads/2019/02/6.Sanou.pdf)
- [Sanou, A.G.](#), Sankara, F., Pousga, S., **Kenis, M.**, Coulibaly, K., Nacoulma, J.P., Nacro, S., Ouedraogo, I. and Somda, I. (2019) Farmers' perception of the use of fly larvae in poultry feed in Burkina Faso. *African Entomology* 27(2), 373–385. <https://doi.org/10.4001/003.027.0373>
- Santos, T.B., Luz, E.D.M.M., **Evans, H.C.** and [Bezerra, J.L.](#) (2019) *Spermosporella irenopsidis* sp. nov. and *Spermatoloncha maticola*, parasitic on black mildew (*Irenopsis vincensii*) of rubber in Bahia, Brazil. *Rodriguésia* 70: e03342017, 1–4. <http://dx.doi.org/10.1590/2175-7860201970083>
- [Seehausen, M.L.](#), Timm, C., Jones, I.M., Bouchier, R.S. and Smith, S.M. (2019) Reproductive life-history traits of the classical biological control agent *Hypena opulenta* (Lepidoptera: Erebidiae): Using agent biology to support post release monitoring and establishment. *Biological Control* 135, 95–101. <https://doi.org/10.1016/j.biocontrol.2019.05.010>
- [Shabbir, S.](#), [Rehman, A.](#) and [Weyl, P.](#) (2019) Prospects of classical biological control of weeds in Pakistan: challenges and opportunities. In: **Hinz, H.**, Bon, M.-C., Bourdôt, G., Cristofaro, M., Desurmont, G., **Kurose, D.**, Müller-Schärer, H., Rafter, M., **Schaffner, U.**, **Seier, M.**, Sforza, R., Smith, L., **Stutz, S.**, **Thomas, S.**, **Weyl, P.** and Winston, R. (eds) XV International Symposium on Biological Control of Weeds, 26–31 August 2018, Engelberg, Switzerland. US Forest Service, Morgantown, WV, USA, 63–67. <https://www.ibiocontrol.org/proceedings/>
- [Shiferaw, H.](#), Bewket, W., Alamirew, T., Zeleke, G., Teketay, D., Bekele, K., **Schaffner, U.** and Eckert, S. (2019) Implications of land use/land cover dynamics and *Prosopis* invasion on ecosystem service values in Afar Region, Ethiopia. *Science of the Total Environment* 675, 354–366. <https://doi.org/10.1016/j.scitotenv.2019.04.220>
- [Shiferaw, H.](#), **Schaffner, U.**, Bewket, W., Alamirew, T., Zeleke, G., Teketay, D. and Eckert, S. (2019) Modelling the current fractional cover of an invasive alien plant and drivers of its invasion in a dryland ecosystem. *Scientific Reports* 9(1576), 12 pp. <https://doi.org/10.1038/s41598-018-36587-7>
- [Silvestri, S.](#), Macharia, M. and Uzayisenga, B. (2019) Analysing the potential of plant clinics to boost crop protection in Rwanda through adoption of IPM: the case of maize and maize stem borers. *Food Security* 11(2), 301-315. <https://doi.org/10.1007/s12571-019-00910-5>
- [Sivapragasam, A.](#) (2019) Emerging trends in plant protection for tropical fruit production. In: Cangao, C.A.T., Rusman, A., Chandrabalan, D. and Ahmad, Y. (eds) TROPED '18. Proceedings International Conference on Tropical Fruit Pests and Diseases 'Sustainable Solutions for Tropical Fruit Pests and Diseases', Kota Kinabalu, Sabah, Malaysia 25–27 September 2018. International Tropical Fruits Network (TFNet), Selangor, Malaysia, pp. 136–139. <http://itfnet.org/troped2018/index.php>

- Smith, D., Buddie, A.G.,** Goss, R.J.M., Overmann, J., Lepleux, C., Brönstrup, M., Kloareg, B., Meiners, T., Brennecke, P., Ianora, A., Bouget, F.-Y., Gribbon, P. and Pina, M. (2019) Discovery pipelines for marine resources: an ocean of opportunity for biotechnology? *World Journal of Microbiology and Biotechnology* 35(107), 8 pp. <https://doi.org/10.1007/s11274-019-2685-y>
- Stackebrandt, E. and Smith, D.** (2019) Paradigm shift in species description: the need to move towards a tabular format. (Editorial.) *Archives of Microbiology* 201(2), 143-145. <http://link.springer.com/article/10.1007/s00203-018-1609-9>
- Stahl, J., Babendreier, D. and Haye, T.** (2019) Life history of *Anastatus bifasciatus*, a potential biological control agent of the brown marmorated stink bug in Europe. *Biological Control* 129, 178–186. <https://doi.org/10.1016/j.biocontrol.2018.10.016>
- Stahl, J., Tortorici, F., Pontini, M., Bon, M.-C., Hoelmer, K., Marazzi, C., Tavella, L. and Haye, T.** (2018) First discovery of adventive populations of *Trissolcus japonicus* in Europe. *Journal of Pest Science* 92(2), 371–379. <https://doi.org/10.1007/s10340-018-1061-2>
- Stahl, J.M., Babendreier, D.,** Marazzi, C., Caruso, S., Costi, E., Maistrello, L. and Haye, T. (2019) Can *Anastatus bifasciatus* be used for augmentative biological control of the brown marmorated stink bug in fruit orchards? *Insects* 10(108), 14 pp. <https://doi.org/10.3390/insects10040108>
- Stahl, J.M.,** Garipey, T.D., Beukeboom, L.W. and Haye, T. (2019) A molecular tool to identify *Anastatus* parasitoids of the brown marmorated stink bug. *Entomologia Experimentalis et Applicata* 167, 692–700. <https://doi.org/10.1111/eea.12809>
- Szücs, M.,** Salerno, P.E., Teller, B.J., Schaffner, U., Littlefield, J.L. and Hufbauer, R.A. (2019) The effects of agent hybridization on the efficacy of biological control of tansy ragwort at high elevations. *Evolutionary Applications* 2(3), 470–481. <https://doi.org/10.1111/eva.12726>
- Tai, H., Guo, J., Yang, S., **Zhang, F.,** Liu, J., Yang, Y., Song, M., Xia, Y., He, K., Lin, Q. and **Wang, Z.** (2019) 草地贪夜蛾在云南德宏州甘蔗上的生物学习性及为害状观察 [Biological characteristics and damage symptoms of fall armyworm, *Spodoptera frugiperda*, on sugarcane in Dehong prefecture of Yunnan province.] *Plant Protection* 45(6), 75–79. [In Chinese with English abstract.] <https://doi.org/10.16688/j.zwbh.2019488>
- Tai, H., Guo, J., **Zhang, F.,** Wang, G., An, Z., Zhang, T., Su, H., Xu, J., Yang, L. and **Wang, Z.** (2019) 草地贪夜蛾在云南冬季甜玉米上的生物学习性及为害状观察 [Biological characteristics and damage symptoms of the fall armyworm *Spodoptera frugiperda* on winter sown sweet corn in Yunnan province.] *Plant Protection* 45(5), 91–95. [In Chinese with English abstract.] <https://doi.org/10.16688/j.zwbh.2019349>
- Tambo, J.A., Aliamo, C., Davis, T., Mugambi, I., Romney, D., Onyango, D.O., Kansime, M., Alokit, C.,** and Byantwale, S.T. (2019) The impact of ICT-enabled extension campaign on farmers' knowledge and management of fall armyworm in Uganda. *PLoS ONE* 14(8), 21 pp. <https://doi.org/10.1371/journal.pone.0220844>
- Tarmann, G.H. and **Cock, M.J.W.** (2019) Zygaenidae from Trinidad, West Indies. *Journal of the Lepidopterists' Society* 73(3), 153-161. <https://doi.org/10.18473/lepi.73i3.a4>
- Thanarajoo S.S., Chan H.T.** and Day M. (2019) Abstract book for 9th International Workshop on Biological Control and Management of Eupatorieae and other Invasive Weeds, 19–22 March 2019, Putrajaya, Malaysia. CABI Southeast Asia, Serdang, Malaysia, 47 pp.
- Toepfer, S., Kuhlmann, U., Kansime, M., Onyango, D.O., Davis, T., Cameron, K. and Day, R.** (2019) Communication, information sharing, and advisory services to raise awareness for fall armyworm detection and area-wide management by farmers. *Journal of Plant Diseases and Protection* 126(2), 103–106. <https://doi.org/10.1007/s41348-018-0202-4>

- Trillo, A., Montero-Castaño, A., González-Varo, J.P., **González-Moreno, P.**, Ortiz-Sánchez, F.J. and Vilà, M. (2019) Contrasting occurrence patterns of managed and native bumblebees in natural habitats across a greenhouse landscape gradient. *Agriculture, Ecosystems and Environment* 272, 230-236. <https://doi.org/10.1016/j.agee.2018.11.018>
- Vilà, M., Gallardo, B., Preda, C., García-Berthou, E., Essl, F., **Kenis, M.**, Roy H.E. and **González-Moreno, P.** (2018) A review of impact assessment protocols of non-native plants. *Biological Invasions* 21(3), 709-723. <https://doi.org/10.1007/s10530-018-1872-3>
- Vincent, C., **Babendreier, D.**, Świergiel, W., Helsen, H. and Blommers, L.H.M. (2020) A review of the apple sawfly, *Hoplocampa testudinea* (Hymenoptera Tenthredinidae). *Bulletin of Insectology* 72(1), 35–54.
- Visch, W., Rad-Menéndez, C., Nylund, G.M., Pavia, H., **Ryan, M.J.** and Day, J. (2019) Underpinning the development of seaweed biotechnology: cryopreservation of brown algae (*Saccharina latissima*) gametophytes. *Biopreservation and Biobanking* 17(5), p pp. <https://doi.org/10.1089/bio.2018.0147>
- Wan, F. and 58 coauthors including **Tang, R.** (2019) A chromosome-level genome assembly of *Cydia pomonella* provides insights into chemical ecology and insecticide resistance. *Nature Communications* 10(4237), 14 pp. <https://doi.org/10.1038/s41467-019-12175-9>
- Wan, M.**, Gu, R., Zhang, T., Zhang, Y., Ji H., Wang, B., Qiao, Y. and **Toepfer, S.** (2019) Conflicts of interests when connecting agricultural advisory services with agri-Input businesses. *Agriculture* 9(218) 19 pp; <https://doi.org/10.3390/agriculture9100218>
- Wan, M.**, Gu, R., Zhang, T., Zhang, Y., Ji, H., Wang, B., Qiao, Y. and **Toepfer, S.** (2019) Conflicts of interests when connecting agricultural advisory services with agri-input businesses. *Agriculture* 9(10), 218, 19 pp. <https://doi.org/10.3390/agriculture9100218>
- Wei, X., Zhao, L., Qiao, Y., Wang, B., **Wan, M.** and **Toepfer, S.** (2019) Implementing agripolicies on pesticide reduction through subsidies and plant clinics in China. *CABI Working Paper* 13, 25 pp. [Also available in a Chinese version.] <https://dx.doi.org/10.1079/cabicomm-62-8118>
- Williams, F.**, **Murphy, S. T.**, **Beseh, P.** and **Lamontagne-Godwin, J.** (2019) Have actions taken to control fall armyworm reduced the economic cost experienced in Ghana? *CABI Study Brief* 31(Impact), [10 pp.]. <https://dx.doi.org/10.1079/cabicomm-62-8108>
- Witt, A.** and Belgeri, A. (2019) Impacts on the environment. In: Adkins, S., Shabbir, A. and Dhileepan, K. (eds) *Parthenium Weed: Biology, Ecology and Management*. CABI Invasives Series 8. CABI, Wallingford, UK, pp. 79–104.
- Witt, A.B.R.**, Shackleton, R.T., **Beale, T.**, **Nunda, W.** and Wilgen, B.W. van (2019) Distribution of invasive alien *Tithonia* (Asteraceae) species in eastern and southern Africa and the socioecological impacts of *T. diversifolia* in Zambia. *Bothalia - African Biodiversity & Conservation* 49(1), a2356, 11 pp. <https://doi.org/10.4102/abc.v49i1.2356>
- Zhang, J., Huang Y., Pu, R., **Gonzalez-Moreno, P.**, Yuan, L., Wu, K. and Huang, W. (2019) Monitoring plant diseases and pests through remote sensing technology: A review. *Computers and Electronics in Agriculture* 165(104943), 14 pp. <https://doi.org/10.1016/j.compag.2019.104943>
- Zhang, T., Wang, B. and **Wan, M.** (2019) 常见作物主要病虫害防治实用技术手册. [Practical Pests Management Technical Manual of Major Pests in Common Crops. In Chinese.] China Agricultural Science and Technology Press, Beijing, China, 140 pp.
- Zhang, X., Han, L., Dong, Y., Shi, Y., Huang, W., Han, L., **González-Moreno, P.**, Ma, H., Ye, H. and Sobeih, T. (2019) A deep learning-based approach for automated yellow rust disease detection

from high-resolution hyperspectral UAV images. *Remote Sensing* 11(1554), 16 pp.

<https://doi.org/10.3390/rs11131554>

- Zhou, C.-Q., Zhan, H.-X., Xiao, C. and **Zhang, J.-P.** (2019) 以黑腹果蝇为寄主的蝇蛹金小蜂生长发育、繁殖及功能反应研究 [The development, fecundity, and functional response of *Pachycrepoideus vindemmiae* on the pupae of *Drosophila melanogaster*.] *Journal of Environmental Entomology* 41(3), 599–604. [In Chinese with English abstract.] <https://doi.org/10.3969/j.issn.1674-0858>
- Zorić, A.S.**, Morina, F., **Toševski, I.**, Tosti, T., Jović, J., Krstić, O., and Veljović-Jovanović, S. (2019) Resource allocation in response to herbivory and gall formation in *Linaria vulgaris*. *Plant Physiology and Biochemistry* 135, 224–232. <https://doi.org/10.1016/j.plaphy.2018.11.032>