

CABI staff publications in 2018

Note that early-view publications that only appeared on-line in 2018, will be compiled based on their hard copy publication with volume and pagination in 2019.

☼ These papers are available open access.

CABI staff appear in bold.

- Agbodzavu, M.K., Gikungu, M., Lagat, Z.O. **Rwomushana, I.**, Ekesi, S. and Fiaboe, K.K.M. (2018) Acceptability and suitability of *Spodoptera exigua* (Hübner) for *Cotesia icipe* Fernandez-Triana & Fiaboe on amaranth. *Journal of Applied Entomology* 142(7), 716–724. <https://doi.org/10.1111/jen.12525>
- Agbodzavu, M.K., Lagat, Z.O., Gikungu, M., **Rwomushana, I.**, Ekesi, S. and Fiaboe, K.K.M. (2018) Performance of the newly identified endoparasitoid *Cotesia icipe* Fernandez-Triana & Fiaboe on *Spodoptera littoralis* (Boisduval). *Journal of Applied Entomology* 142(7), 646–653. <https://doi.org/10.1111/jen.12514>
- Ali, G.**, Abma-Henkensa, M.H.C., van der Werf, W., Hemerik, L. and Vlak, J.M. (2018) Genotype assembly, biological activity and adaptation of spatially separated isolates of *Spodoptera litura* nucleopolyhedrovirus. *Journal of Invertebrate Pathology* 153, 20–29. <https://doi.org/10.1016/j.jip.2018.01.009>
- Ali, G.**, van der Werf, W. and Vlak, J.M. (2018) Biological and genetic characterization of a Pakistani isolate of *Spodoptera litura* nucleopolyhedrovirus. *Biocontrol Science and Technology* 28, 20–33. <https://doi.org/10.1080/09583157.2017.1409339>
- Ali, G.**, Vlak, J.M. and van der Werf, W. (2018) Biological activity of Pakistani isolate SpltNPV-Pak-BNG in second, third and fourth instar larvae of the leafworm *Spodoptera litura*. *Biocontrol Science and Technology* 28(5), 521–527. <https://doi.org/10.1080/09583157.2018.1461197> ☼
- Araújo, J.P.M., **Evans, H.C.**, Kepler, R. and Hughes, D.P. (2018) Zombie-ant fungi across continents: 15 new species and new combinations within *Ophiocordyceps*. I. Myrmecophilous hirsutelloid species. *Studies in Mycology* 90, 119–160. <https://doi.org/10.1016/j.simyco.2017.12.002> ☼
- Arnold, S.E.J., Bridgemohan, P., Perry, G.B., Spinelli, G.R., Pierre, B., Murray, F., Haughton, C., Dockery, O., Grey, L., **Murphy, S.T.**, Belmain, S.R. and Stevenson, P.C. (2018) The significance of climate in the pollinator dynamics of a tropical agroforestry system. *Agriculture, Ecosystems and Environment* 254, 1–9. <https://doi.org/10.1016/j.agee.2017.11.013>
- Bacher, S., Blackburn, T.M., Essl, F., Genovesi, P., Heikkilä, J., Jeschke, J.M., Jones, G., Keller, R., **Kenis, M.**, Kueffer, K., Martinou, A.F., Nentwig, W., Pergl, J., Pyšek, P., Rabitsch, W., Richardson, D.M., Roy, H.E., Saul, W.-C., Scalera, R., Vilà, M., Wilson, J.R.U. and Kumschick, S. (2018) Socio-economic impact classification of alien taxa (SEICAT). *Methods in Ecology and Evolution* 9(1), 159–168. <https://doi.org/10.1111/2041-210x.12844> ☼
- Bailey, B.A., **Evans, H.C.**, Phillips-Mora, W., Ali, S.S. and Meinhardt, L.W. (2018) *Moniliophthora roreri*, causal agent of cacao frosty pod rot. *Molecular Plant Pathology* 19(7), 1580–1594. <https://doi.org/10.1111/mpp.12648>
- Bajwa, B.**, **Honey, S.F.**, **Mazhar, M.S.** and **Riaz, A.** (2018) Evaluation of different monitoring traps against stored grains insect pests in rice processing units of the Punjab Province, Pakistan. *International Journal of Development Research* 8(12499), 9 pp. <https://www.journalijdr.com/evaluation-different-monitoring-traps-against-stored-grains-insect-pests-rice-processing-units> ☼
- Bajwa, B.**, **Mazhar, M.S.**, Bashir, M.K. and **Honey, S.F.** (2018) Environmental, economical, and social impact of biological control interventions in papaya farming in Sindh, Pakistan. *Pakistan Journal of Life and Social Sciences* 16(1), 27–34. http://www.pjlss.edu.pk/archive/volume_16_no_1_2018.htm ☼
- Baroncelli, R., Sukno, S.A., Sarrocco, S., **Cafà, G.**, Le Floch, G. and Thon, M.R. (2018) Whole-genome sequence of the orchid anthracnose pathogen *Colletotrichum orchidophilum*. *Molecular Plant-Microbe Interactions* 31(10), 979–981. <https://doi.org/10.1094/mpmi-03-18-0055-a>
- Barratt, B.I.P., **Cock, M.J.W.** and Oberprieler, R.G. (2018) Weevils as targets for biological control, and the importance of taxonomy and phylogeny for efficacy and biosafety. *Diversity* 10(73), 19 pp. <https://doi.org/10.3390/d10030073> ☼
- Bateman, M.L.**, **Day, R.**, **Luke, B.**, **Edgington, S.**, **Kuhlmann, U.** and **Cock, M.J.W.** (2018) Assessment of potential biopesticide options for managing fall armyworm (*Spodoptera frugiperda*) in Africa. *Journal of Applied Entomology* 142(9), 805–819. <https://doi.org/10.1111/jen.12565> ☼
- Bekele, K., Haji, J., Legesse, B. and **Schaffner, U.** (2018) Economic impacts of *Prosopis* spp. invasions on dryland ecosystem services in Ethiopia and Kenya: evidence from choice experimental data. *Journal of Arid Environments* 158, 9–18. <https://doi.org/10.1016/j.jaridenv.2018.07.001>
- Bekele, K., Haji, J., Legesse, B., Shiferaw, H. and **Schaffner, U.** (2018) Impacts of woody invasive alien plant species on rural livelihood: Generalized propensity score evidence from *Prosopis* spp. invasion in Afar Region in Ethiopia. *Pastoralism: Research, Policy and Practice* 8(28), 17 pp. <https://doi.org/10.1186/s13570-018-0124-6> ☼

- Benson, E.E., Harding, K., **Ryan, M.**, Petrenko, A., Petrenko, Y. and Fuller, B. (2018) Alginate encapsulation to enhance biopreservation scope and success: a multidisciplinary review of current ideas and applications in cryopreservation and non-freezing storage. *CryoLetters* 39, 14–38.
- Bentley, J.W., Danielsen, S., Phiri, N., Tegha, Y.C., Nyalugwe, N., Neves, E., Hidalgo, E., Sharma, A., Pandit, V.** and Sharma, D.R. (2018) Farmer responses to technical advice offered at plant clinics in Malawi, Costa Rica and Nepal. *International Journal of Agricultural Sustainability* 16(2), 187–200. <https://doi.org/10.1080/14735903.2018.1440473> ☼
- Bhutto, N.N., Rahman, A., Nahiyoon, A.A., Khan, R.A. and Zaman, B.** (2018) Role of farmers' training on cotton production through farmer field school (FFS) approach in Sanghar, Sindh Pakistan. *International Journal of Farming and Allied Sciences* 7(1), 18–22. www.ijfas.com/wp-content/uploads/2018/03/18-22.pdf ☼
- Blossey, B., **Häfliger, P.**, Tewksbury, L., Dávalos, A., Casagrande, R. (2018) Host specificity and risk assessment of *Archanara geminipuncta* and *Archanara neurica*, two potential biocontrol agents for invasive *Phragmites australis* in North America. *Biological Control* 125, 98–112. <https://doi.org/10.1016/j.biocontrol.2018.05.019> ☼
- Blossey, B., **Häfliger, P.**, Tewksbury, L., Dávalos, A., Casagrande, R. (2018) Complete host specificity test plant list and associated data to assess host specificity of *Archanara geminipuncta* and *Archanara neurica*, two potential biocontrol agents for invasive *Phragmites australis* in North America. *Data in Brief* 19, 1755–1764. <https://doi.org/10.1016/j.dib.2018.06.068> ☼
- Bloukounon-Goubalan, A.Y., Saidou, A., **Clottey, V.**, Chrysostome, C.A.A.M., **Kenis, M.** and Mensah, G.A. [2018] Typology of organic residues attracting flies and their utilization in the agricultural sector in southern Benin. *International Journal of Biological and Chemical Sciences* 11(6) (2017), 2560–2572. ☼
- Brennecke, P., Ferrante, M.I., Johnston, I.A. and **Smith, D.** (2018) A collaborative European approach to accelerating translational marine science. *Journal of Marine Science and Engineering* 6(3), 81, 12 pp. <https://doi.org/10.3390/jmse6030081> ☼
- Brown, P.R., Aplin, K.P., Hinds, L.A., Jacob, J., **Thomas, S.E.** and **Ritchie, B.J.** (2018) Rodent management issues in South Pacific islands: a review with case studies from Papua New Guinea and Vanuatu. *Wildlife Research* 44, 587–602. <https://doi.org/10.1071/wr17104>
- Caldara, R. and **Toševski, I.** (2018) Case 3752 – *Curculio antirrhini* Paykull, 1800 (currently *Rhinusa antirrhini*; Insecta, Coleoptera, Curculionoidea, Curculionidae): proposed precedence over *Curculio noctis* Herbst, 1795. *Bulletin of Zoological Nomenclature* 75(1), 139–142. <https://doi.org/10.21805/bzn.v75.a029>
- Carboneras, C., Genovesi, P., Vilà, M., Blackburn, T.M., Carrete, M., Clavero, M., D'hondt, B., Orueta, J.F., Gallardo, B., Gerdal, P., **González-Moreno, P.**, Gregory, R.D., Nentwig, W., Paquet, J.-Y., Pyšek, P., Rabitsch, W., Ramírez, I., Scalera, R., Tella, J.L., Walton, P. and Wynne, R. (2018) A prioritised list of invasive alien species to assist the effective implementation of EU legislation. *Journal of Applied Ecology* 55(2), 539–547. <https://doi.org/10.1111/1365-2664.12997> ☼
- Casagrande, R.A., **Häfliger, P., Hinz, H.L.**, Tewksbury, L. and Blossey, B. (2018) Grasses as appropriate targets in weed biocontrol: Is the common reed, *Phragmites australis*, an anomaly? *BioControl* 63(3), 391–403. <https://doi.org/10.1007/s10526-018-9871-y>
- Cechin, I., Gonzalez, G.C., **Corniani, N.** and Fumis, T.F. (2018) The sensitivity of sunflower (*Helianthus annuus* L.) plants to UV-B radiation is altered by nitrogen status. *Ciência Rural* 48(2), e20170369, 6 pp. <http://dx.doi.org/10.1590/0103-8478cr20170369> ☼
- Chen, J., Cui, J., Tang, J., Bi, R., **Zhang, J.** and Shi, S. (2018) 温度对点蜂缘蝽生长发育和繁殖的影响. [Effects of temperature on the growth and development of *Riptortus pedestris* Fabricius.] *Chinese Journal of Oil Crop Sciences* 40(4), 579–584. [In Chinese with English abstract.]
- Chen, J., Cui, J., **Zhang, J.**, Bi, R., Gao, Y., Xu, W. and Shi, S. (2018) 温度胁迫对点蜂缘蝽呼吸代谢关键酶活的影响. [Effects of temperature on the activities of key enzymes related to respiratory metabolism in *Riptortus pedestris* (Hemiptera: Coreidae) adults.] *Acta Entomologica Sinica* 61(9), 1003–1009. [In Chinese with English abstract.]
- Cock, M.J.W.** (2018) Hawk-moths (Sphingidae) of Trinidad, West Indies: an illustrated and annotated catalogue. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2018, 10–81. ☼
- Dougoud, J., Cock, M.J.W., Edgington, S. and Kuhlmann, U.** (2018) A baseline study using Plantwise information to assess the contribution of extension services to the uptake of augmentative biological control in selected low- to lower-middle- income countries. *BioControl* 63(1), 117–132. <https://doi.org/10.1007/s10526-017-9823-y> ☼
- Dueñas, M.-A., Ruffhead, H.J., Wakefield, N.H., Roberts, P.D., Hemming, D.J.** and Diaz-Soltero, H. (2018) The role played by invasive species in interactions with endangered and threatened species in the United States: a systematic review. *Biodiversity and Conservation* 27, 3171–3183. <https://doi.org/10.1007/s10531-018-1595-x> ☼
- Early, R., **González-Moreno, P., Murphy, S.T. and Day, R.** (2018) Forecasting the global extent of invasion of the cereal pest *Spodoptera frugiperda*, the fall armyworm. *NeoBiota* 40, 25–50. <https://doi.org/10.3897/neobiota.40.28165> ☼
- EFSA Panel on Plant Health (Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., Gilioli, G., Grégoire, J.-C., Miret, J.A.J., Navarro, M.N., Niere, B., Parnell, S., Potting, R., Rafoss, T., Rossi, V.,

- Urek, G., Van Bruggen, A., Van der Werf, W., West, J., Winter, S., **Day, R.**, Early, R., Hruska, A., Nagoshi, R., Gardi, C., Mosbach-Schultz, O. and MacLeod, A.) (2018) Pest risk assessment of *Spodoptera frugiperda* for the European Union. *EFSA Journal* 16(8):5351, 120 pp. ☼
- EFSA Panel on Plant Health (PLH) (Jeger, M., Bragard, C., Caffier, D., Candresse, T., Chatzivassiliou, E., Dehnen-Schmutz, K., Gilioli, G., Jaques Miret, J.A., MacLeod, A., Navajas Navarro, M., Niere, B., Parnell, S., Potting, R., Rafoss, T., Rossi, V., Urek, G., Van Bruggen, A., Van der Werf, W., West, J., Winter, S., **Kenis, M.**, Kertesz, V. and Gregoire, J.-C. (2018) Pest categorisation of non-EU *Pissodes* spp. *EFSA Journal* 16(6):5300, 29 pp. <https://doi.org/10.2903/j.efsa.2018.5300> ☼
- Evans, H.C.**, Araújo, J.P.M., Halfeld, V.R. and Hughes, D.P. (2018) Epitypification and re-description of the zombie-ant fungus, *Ophiocordyceps unilateralis* (Ophiocordycipitaceae). *Fungal Systematics and Evolution* 1, 13–22. <https://doi.org/10.3114/fuse.2018.01.02> ☼
- Evans, H.C.**, Elliot, S.L. and Barreto, R.W. (2018) Entomopathogenic fungi and their potential for the management of *Aedes aegypti* (Diptera: Culicidae) in the Americas. *Memórias do Instituto Oswaldo Cruz* 112, 1–9. ☼
- Farahpour-Haghani, A., **Tosiveski [Tosevskij], I.**, Yaghoubi, B., Jalaeian, M. and Pouramir, F. (2018) First report of the exotic weevil *Stenopelmus rufinasus* (Coleoptera: Curculionidae) occurrence in Iran. *Journal of Crop Protection* 7(2), 243–246. http://jcp.modares.ac.ir/browse.php?a_id=13320&sid=3&slc_lang=en ☼
- Fernandes, P., Máguas, C., Correia, O. and **González-Moreno, P.** (2018) What drives *Eucalyptus globulus* natural establishment outside plantations? The relative importance of climate, plantation and site characteristics. *Biological Invasions* 20(5), 1129–1146. <https://doi.org/10.1007/s10530-017-1614-y>
- Fraival, S., Hammond, J., Lannerstada, M., Oosting, S.J., Sayula, G., Teufel, N., **Silvestri, S.**, Poole, E.J., Herrero, M. and van Wijk, M.T. (2018) Livelihoods and food security in an urban linked, high potential region of Tanzania: Changes over a three year period. *Agricultural Systems* 160, 87–95. <https://doi.org/10.1016/j.agry.2017.10.013>
- Gakuo, S.** and **Karanja, L.** (2018) e-Agriculture Promising Practice UPTAKE: driving adoption of agri-technologies through information and communication technologies (ICT). [Online document.] FAO, Rome, 9 pp. <http://www.fao.org/3/i9191en/I9191EN.pdf> ☼
- Gaskin, J.F., Schwarzländer, M., Gibson, R.D., Simpson, H., Marshall, D.L., **Gerber, E.** and **Hinz, H.** (2018) Geographic population structure in an outcrossing plant invasion after centuries of cultivation and recent founding events. *AoB Plants* 10(2), ply020, 11 pp. <https://doi.org/10.1093/aobpla/ply020> ☼
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- Girod, P.**, Borowiec, N., Buffington, M., Chen, G., Fang, Y., Kimura, M.T. Peris-Felipo, F.J., Ris, N., Wu, H., Xiao, C., **Zhang, J.**, Aebi, A., **Haye, T.** and **Kenis, M.** (2018) The parasitoid complex of *D. suzukii* and other fruit feeding *Drosophila* species in Asia. *Scientific Reports* 8(11839), 8 pp. <https://www.nature.com/articles/s41598-018-29555-8> ☼
- Girod, P.**, Lierhmann, O., Urvois, T., Turlings, T.C.J., **Kenis, M.** and **Haye, T.** (2018) Host specificity of Asian parasitoids for potential classical biological control of *Drosophila suzukii*. *Journal of Pest Science* 91(4), 1241–1250. <https://doi.org/10.1007/s10340-018-1003-z> ☼
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- Guo, J., Zhao, J., He, K., **Zhang, F.** and Wang, Z. (2018) 警惕危险性害虫草地贪夜蛾入侵中国. [Potential invasion of the crop-devastating insect pest fall armyworm *Spodoptera frugiperda* to China.] *Plant Protection* 44(6), 1–10. <https://doi.org/10.16688/j.zwbh.2018452> [In Chinese with English abstract.]
- Haye, T.**, Olfert, O., Weiss, R., Mason, P.G., Gibson, G., Garipey, T.D. and Gillespie, D. (2018) Bioclimatic analyses of *Trichomalus perfectus* and *Mesopolobus morys* (Hymenoptera: Pteromalidae) distributions, two potential biological control agents of the cabbage seedpod weevil in North America. *Biological Control* 124(1), 30–39. <https://doi.org/10.1016/j.biocontrol.2018.06.003> ☼
- Heimpel, G. and **Cock, M.J.W.** (2018) Shifting paradigms in the history of classical biological control. *BioControl* 63(1), 27–37. <https://doi.org/10.1007/s10526-017-9841-9>
- Hemming, D.J.**, Chirwa, E.W., Dorward, A., **Ruffhead, H.J.**, **Hill, R.**, **Osborn, J.**, Langer, L., Harman, L., Asaoka, H., Coffey, C. and Phillips, D. (2018) Agricultural input subsidies for improving productivity, farm income,

- consumer welfare and wider growth in low- and lower-middle-income countries. *Campbell Systematic Reviews* 2018;4, 153 pp. <https://doi.org/10.4073/csr.2018.4> ☼
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- Huggins, D.S., Sookdeo, K. and **Cock, M.J.W.** (2018) The caterpillar of *Rothschildia vanschaycki* (Lepidoptera, Saturniidae), a little known silk moth from Trinidad, W.I. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2018, 100–101. <http://ttfnc.org/livingworld/index.php/lwj/issue/view/42> ☼
- Hulme, P.E., Brundu, G., Carboni, M., Dehnen-Schmutz, K., Dullinger, S., Early, R., Essl, F., **González-Moreno, P.**, Groom, Q.J., Kueffer, C., Kühn, I., Maurel, N., Novoa, A., Pergl, J., Pyšek, P., Seebens, H., Tanner, R., Touza, J.M., van Kleunen, M. and Verbrugge, L.N.H. (2018) Integrating invasive species policies across ornamental horticulture supply-chains to prevent plant invasions. *Journal of Applied Ecology* 55(1), 92–98. <http://dx.doi.org/10.1111/1365-2664.12953>
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- Kansiime, M.K.**, van Asten, P. and Sneyers, K. (2018) Farm diversity and resource use efficiency: Targeting agricultural policy interventions in East Africa farming systems. *NJAS – Wageningen Journal of Life Sciences* 85, 32–41. <https://doi.org/10.1016/j.njas.2017.12.001> ☼
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