

Research Macroarea
Agricultural Sciences

Publication List - 2019-2022



2019

1. Aguzzoni, A., Bassi, M., Robatscher, P., Scandellari, F., Tirlir, W., & Tagliavini, M. (2019). Intra- and Intertree Variability of the $^{87}\text{Sr}/^{86}\text{Sr}$ Ratio in Apple Orchards and Its Correlation with the Soil $^{87}\text{Sr}/^{86}\text{Sr}$ Ratio. *Journal of Agricultural and Food Chemistry*, 67(20), 5728–5735. <https://doi.org/10.1021/acs.jafc.9b01082>
2. Alam, M. R., Scampicchio, M., Angeli, S., & Ferrentino, G. (2019). Effect of hot melt extrusion on physical and functional properties of insect based extruded products. *Journal of Food Engineering*, 259, 44–51. <https://doi.org/10.1016/j.jfoodeng.2019.04.021>
3. Armbrecht, L., Lambertz, C., Albers, D., & Gauly, M. (2019). Assessment of welfare indicators in dairy farms offering pasture at differing levels. *Animal*, 13(10), 2336–2347. <https://doi.org/10.1017/S1751731119000570>
4. Bakovic, V., Schuler, H., Schebeck, M., Feder, J. L., Stauffer, C., & Ragland, G. J. (2019). Host plant-related genomic differentiation in the European cherry fruit fly, *Rhagoletis cerasi*. *Molecular Ecology*, 28(20), 4648–4666. <https://doi.org/10.1111/mec.15239>
5. Baric, S. (2019). Duplex TaqMan Real-Time PCR for Rapid Quantitative Analysis of a Phytoplasma in Its Host Plant without External Standard Curves. In R. Musetti & L. Pagliari (Eds.), *Methods in Molecular Biology* (Vol. 1875, pp. 131–141). Springer New York. https://doi.org/10.1007/978-1-4939-8837-2_10
6. Bartucca, M. L., Mimmo, T., Cesco, S., Panfili, I., & Del Buono, D. (2019). Effect of metribuzin on nitrogen metabolism and iron acquisition in *Zea mays*. *Chemistry and Ecology*, 35(8), 720–731. <https://doi.org/10.1080/02757540.2019.1641493>
7. Bietresato, M., Belotti, R., Von Ellenrieder, K. D., & Mazzetto, F. (2019). A Preliminary Study of Active Stabilization for Agricultural Machines Using a Movable Mass. *ASME*

International Mechanical Engineering Congress and Exposition (IMECE), 4, V004T05A061.

8. Bietresato, M., Caligiuri, C., Bolla, A., Renzi, M., & Mazzetto, F. (2019). Proposal of a Predictive Mixed Experimental- Numerical Approach for Assessing the Performance of Farm Tractor Engines Fuelled with Diesel- Biodiesel-Bioethanol Blends. *Energies*, 12(12), 2287. <https://doi.org/10.3390/en12122287>
9. Bietresato, M., Caligiuri, C., Renzi, M., & Mazzetto, F. (2019). Use of diesel-biodiesel-bioethanol blends in farm tractors: First results obtained with a mixed experimental-numerical approach. *Energy Procedia*, 158, 965–971. <https://doi.org/10.1016/j.egypro.2019.01.237>
10. Bietresato, M., Malavasi, M., & Mazzetto, F. (2019). *Set-up of integrated system for real-time detection and recording of many engine parameters of agricultural machines during Dyno tests*. 18, 160–173. <https://doi.org/10.22616/ERDev2019.18.N187>
11. Bietresato, M., & Mazzetto, F. (2019). Definition of the Layout for a New Facility to Test the Static and Dynamic Stability of Agricultural Vehicles Operating on Sloping Grounds. *Applied Sciences*, 9(19), 4135. <https://doi.org/10.3390/app9194135>
12. Boschiero, M., Zanotelli, D., Ciarapica, F. E., Fadanelli, L., & Tagliavini, M. (2019). Greenhouse gas emissions and energy consumption during the post-harvest life of apples as affected by storage type, packaging and transport. *Journal of Cleaner Production*, 220, 45–56. <https://doi.org/10.1016/j.jclepro.2019.01.300>
13. Camacho, M., Garza, D., Gauly, M., & Holtz, W. (2019). Superovulation of Boer goats with different synchronization regimens at different times of the year in the northern temperate zone. *Small Ruminant Research*, 177, 106–110. <https://doi.org/10.1016/j.smallrumres.2019.06.022>

14. Cellini, A., Giacomuzzi, V., Donati, I., Farneti, B., Rodriguez-Estrada, M. T., Savioli, S., Angeli, S., & Spinelli, F. (2019). Pathogen-induced changes in floral scent may increase honeybee-mediated dispersal of *Erwinia amylovora*. *The ISME Journal*, *13*(4), 847–859. <https://doi.org/10.1038/s41396-018-0319-2>
15. Daglio, G., Gallo, R., & Mazzetto, F. (2019). Blooming charge assessment in apple orchards for automatic thinning activities. *Die Bodenkultur: Journal of Land Management, Food and Environment*, *70*(3), 171–180. <https://doi.org/10.2478/boku-2019-0015>
16. Daglio, G., Gallo, R., Petrera, S., Andergassen, C., Kelderer, M., & Mazzetto, F. (2019). Automated crop monitoring solutions to assess the blooming charge in orchards: Preliminary results achieved by a prototype mobile lab used on apple trees. *IOP Conference Series: Earth and Environmental Science*, *275*(1), 012019. <https://doi.org/10.1088/1755-1315/275/1/012019>
17. Daş, G., Westermark, P. O., & Gaulty, M. (2019). Diurnal variation in egg excretion by *Heterakis gallinarum*. *Parasitology*, *146*(2), 206–212. <https://doi.org/10.1017/S0031182018001075>
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19. Di Iorio, E., Colombo, C., Angelico, R., Terzano, R., Porfido, C., Valentinuzzi, F., Pii, Y., Mimmo, T., & Cesco, S. (2019). Iron oxide-humic acid coprecipitates as iron source for cucumber plants. *Journal of Plant Nutrition and Soil Science*, *182*(6), 921–933. <https://doi.org/10.1002/jpln.201800207>
20. Doellman, Schuler, Jean, Hood, Egan, Powell, Glover, Bruzzese, Smith, Yee, Goughnour, Rull, Aluja, & Feder. (2019). Geographic and Ecological Dimensions of Host Plant-

Associated Genetic Differentiation and Speciation in the *Rhagoletis cingulata* (Diptera: Tephritidae) Sibling Species Group. *Insects*, 10(9), 275.

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21. Favaro, R., Bauer, L. M., Rossi, M., D'Ambrosio, L., Bucher, E., & Angeli, S. (2019). Botanical Origin of Pesticide Residues in Pollen Loads Collected by Honeybees During and After Apple Bloom. *Frontiers in Physiology*, 10, 1069.

<https://doi.org/10.3389/fphys.2019.01069>

22. Fischer, C. (2019). Agriculture and tourism sector linkages: Global relevance and local evidence for the case of South Tyrol. *Open Agriculture*, 4(1), 544–553.

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23. Fischer, C. (2019). Avoiding Malthus 2.0: Why Food Pessimism Leads Nowhere. *American Journal of Biomedical Science & Research*, 6(1), 64–65.

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24. Fischer, C., & Bossi Fedrigotti, V. (2019). Appreciation of small traditional farms by the South Tyrolean population: Value component analysis via structural equation modelling [Wertschätzung bäuerlicher Betriebe in der Südtiroler Bevölkerung: Komponentenanalyse mittels Strukturgleichungsmodellen]. *Journal of the Austrian Society of Agricultural Economics*, 29(23), 195–203. https://doi.org/10.15203/OEGA_29.23

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<https://doi.org/10.1109/MetroAgriFor.2019.8909282>

26. Gallo, R., Ristorto, G., Bojeri, A., Zorzi, N., Daglio, G., Rinaldi, M. F., Sauli, G., & Mazzetto, F. (2019). Assessment of riparian environments through semi-automated procedures for the computation of eco-morphological indicators: Preliminary results of the

- WEQUAL project. *Die Bodenkultur: Journal of Land Management, Food and Environment*, 70(3), 131–145. <https://doi.org/10.2478/boku-2019-0012>
27. Gallo, R., Ristorto, G., Bojeri, A., Zorzi, N., Rinaldi, M. F., Sauli, G., & Mazzetto, F. (2019). Design a Web Platform to manage environmental monitoring information to be used in multicriteria evaluations of Green Infrastructures. *IOP Conference Series: Earth and Environmental Science*, 275(1), 012005. <https://doi.org/10.1088/1755-1315/275/1/012005>
28. Kaba, J. S., Zerbe, S., Abunyewa, A. A., & Tagliavini, M. (2019). Tracing the nitrogen flow between *Gliricidia* and cocoa trees in intercropping system using the ¹⁵ N natural abundant method. *Acta Horticulturae*, 1242, 587–592. <https://doi.org/10.17660/ActaHortic.2019.1242.86>
29. Kaba, J. S., Zerbe, S., Agnolucci, M., Scandellari, F., Abunyewa, A. A., Giovannetti, M., & Tagliavini, M. (2019). Atmospheric nitrogen fixation by gliricidia trees (*Gliricidia sepium* (Jacq.) Kunth ex Walp.) intercropped with cocoa (*Theobroma cacao* L.). *Plant and Soil*, 435(1–2), 323–336. <https://doi.org/10.1007/s11104-018-3897-x>
30. Kitpot, T., Sriwattana, S., Angeli, S., & Thakeow, P. (2019). Evaluation of Quality Parameters and Shelf Life of Thai Pork Scratching “Kaeb Moo”. *Journal of Food Quality*, 2019, 1–9. <https://doi.org/10.1155/2019/2421708>
31. Kühl, S., Fellner, J., & Gauly, M. (2019). Characteristics of the Haflinger Horse from the rider’s point of view and its importance when buying a horse [Eigenschaften des Haflingerpferdes aus Sicht der Reiter und ihre Bedeutung beim Pferdekauf]. *Zuchtskunde*, 91(6), 474–488.
32. Lambertz, C., Pouloupoulou, I., Wuthijaree, K., & Gauly, M. (2019). Anthelmintic efficacy against gastrointestinal nematodes in goats raised under mountain farming conditions in

- northern Italy. *BMC Veterinary Research*, 15(1), 216. <https://doi.org/10.1186/s12917-019-1968-8>
33. Lambertz, C., Pouloupoulou, I., Wuthijaree, K., & Gauly, M. (2019). Anthelmintic resistance in gastrointestinal nematodes in sheep raised under mountain farming conditions in Northern Italy. *Veterinary Record Open*, 6(1), e000332. <https://doi.org/10.1136/vetreco-2018-000332>
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35. Latacz-Lohmann, U., Balmann, A., Birner, R., Christen, O., Gauly, M., Grajewski, R., Martínez, J., Nieberg, H., Pischetsrieder, M., Renner, B., Röder, N., Schmid, J. C., Spiller, A., Taube, F., Voget-Kleschin, L., & Weingarten, P. (2019). On the effective design of agri-environmental and climate protection policy within the framework of the common agricultural policy of the EU(Article) [Zur effektiven Gestaltung der Agrarumwelt- und Klimaschutzpolitik im Rahmen der Gemeinsamen Agrarpolitik der EU] Sonderheft 227, Juli 2019. *Berichte uber Landwirtschaft*, 2019, 1–218. <https://doi.org/10.12767/BUEL.V010>
36. Marastoni, L., Pii, Y., Maver, M., Valentinuzzi, F., Cesco, S., & Mimmo, T. (2019). Role of Azospirillum brasilense in triggering different Fe chelate reductase enzymes in cucumber plants subjected to both nutrient deficiency and toxicity. *Plant Physiology and Biochemistry*, 136, 118–126. <https://doi.org/10.1016/j.plaphy.2019.01.013>
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40. Mazzetto, F., Gallo, R., Riedl, M., & Sacco, P. (2019). Proposal of an ontological approach to design and analyse farm information systems to support Precision Agriculture techniques. *IOP Conference Series: Earth and Environmental Science*, *275*(1), 012008.
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41. Mazzetto, F., & Sacco, P. (2019). A methodological proposal to assess the information reliability in the Precision Agriculture decisional chains. *2019 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor)*, 317–322.
<https://doi.org/10.1109/MetroAgriFor.2019.8909230>
42. Meyer, G., Maurhofer, M., Frossard, E., Gamper, H. A., Mäder, P., Mészáros, É., Schönholzer-Mauclair, L., Symanczik, S., & Oberson, A. (2019). *Pseudomonas protegens* CHA0 does not increase phosphorus uptake from ³³P labeled synthetic hydroxyapatite by wheat grown on calcareous soil. *Soil Biology and Biochemistry*, *131*, 217–228.
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51. Schebeck, M., Feldkirchner, L., Stauffer, C., & Schuler, H. (2019). Dynamics of an Ongoing Wolbachia Spread in the European Cherry Fruit Fly, *Rhagoletis cerasi* (Diptera: Tephritidae). *Insects*, *10*(6), 172. <https://doi.org/10.3390/insects10060172>
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57. Tempesta, M., Gianquinto, G., Hauser, M., & Tagliavini, M. (2019). Optimization of nitrogen nutrition of cauliflower intercropped with clover and in rotation with lettuce. *Scientia Horticulturae*, 246, 734–740. <https://doi.org/10.1016/j.scienta.2018.11.020>
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