

Faculty of Science and Technology

Free University of Bozen-Bolzano

Publication list of the RMA-Agriculture Faculties

(peer reviewed and Scopus-retrievable articles)

2017

- Bartucca, M.L., Celletti, S., Astolfi, S., Mimmo, T., Cesco, S., Panfili, I., Del Buono, D. Effect of three safeners on sulfur assimilation and iron deficiency response in barley (*Hordeum vulgare*) plants. *Pest Management Science*. 73, 1, 240-245
- Bartucca, M.L., Celletti, S., Mimmo, T., Cesco, S., Astolfi, S., Del Buono, D. Terbutylazine interferes with iron nutrition in maize (*Zea mays*) plants. *Acta Physiologiae Plantarum*. 39, 10, 235
- Bietresato, M., Bisaglia, C., Merola, M., Brambilla, M., Cutini, M., Mazzetto, F. An application of morphometry to artificial systems: The evolutionary study of farm tractors. *Chemical Engineering Transactions*. 58, 145-150
- Bietresato, M., Mazzetto, F. Proposal of an advanced facility to perform static and dynamic tests of stability on agricultural machines. *Chemical Engineering Transactions*. 58, 151-156
- Boevé, J.-L., Trenczek, T.E., Angeli, S. Searching for particular traits of sawfly (Hymenoptera: Tenthredinidae) larvae that emit hemolymph as a defence against predators. *Journal of Insect Physiology*. 96, 93-97
- Busch, G., Gauly, S.A., Spiller, A. I Spy with my Little Eye: An Eye-tracking Study regarding the Perception and Evaluation of Pictures from Pig Fattening Barns. *German Journal of Agricultural Economics*. 66, 2, 65-84
- Busch, G., Weary, D.M., Spiller, A., Von Keyserlingk, M.A.G. American and German attitudes towards cowcalf separation on dairy farms. *PLoS ONE*, 12, 3
- Camacho, M., Stiehl, J., Garza, D., Gauly, M., Holtz, W. Seasonality of Boer goats in northern Europe and induction of estrus out of season. *Small Ruminant Research*. 151, 26-31
- Carabin, G., Vidoni, R., Mazzetto, F., Gasparetto, A. Dynamic model and instability evaluation of an articulated mobile agri-robot 2017 *Mechanisms and Machine Science*. 47, 335-343
- Dadea, C., Russo, A., Tagliavini, M., Mimmo, T., Zerbe, S. Tree species as tools for biomonitoring and phytoremediation in urban environments: A review with special regard to heavy metals. *Arboriculture and Urban Forestry*. 43, 4, 155-167
- Daş, G., Hennies, M., Sohnrey, B., Rahimian, S., Wongrak, K., Stehr, M., Gauly, M. A comprehensive evaluation of an ELISA for the diagnosis of the two most common ascarids in chickens using plasma or egg yolks. *Parasites and Vectors*, 10, 1, 187

Gallo, R., Nalli, F., Cortese, L., Knollseisen, D., Noggler, W., Mazzetto, F. Chainsaw vibrations, a useful parameter for the automatic tree volume estimations and production assessment of felling operations. *Chemical Engineering Transactions*. 58, 655-660

Gallo, R., Ristorto, G., Daglio, G., Massa, N., Berta, G., Lazzari, M., Mazzetto, F. New solutions for the automatic early detection of diseases in vineyards through ground sensing approaches integrating LiDAR and optical sensors. *Chemical Engineering Transactions*. 58, 673-678

George, E., Ventura, M., Panzacchi, P., Scandellari, F., Tonon, G. Can hydrochar and pyrochar affect nitrogen uptake and biomass allocation in poplars? *Journal of Plant Nutrition and Soil Science*. 180, 2, 178-186

Giacomuzzi, V., Cappellin, L., Nones, S., Khomenko, I., Biasioli, F., Knight, A.L., Angeli, S. Diel rhythms in the volatile emission of apple and grape foliage. *Phytochemistry*. 138, 104-115

Giacomuzzi, V., Mattheis, J.P., Basoalto, E., Angeli, S., Knight, A.L. Survey of conspecific herbivore-induced volatiles from apple as possible attractants for *Pandemis pyrusana* (Lepidoptera: Tortricidae). *Pest Management Science*. 73, 9, 1837-1845

Mazzetto, F., Gallo, R., Importuni, P., Petrera, S., Sacco, P. Automatic filling of field activities register, from challenge into reality. *Chemical Engineering Transactions*. 58, 667-672

Mimmo, T., Tiziani, R., Valentinuzzi, F., Lucini, L., Nicoletto, C., Sambo, P., Scampicchio, M., Pii, Y., Cesco, S. Selenium biofortification in *fragaria* × *ananassa*: Implications on strawberry fruits quality, content of bioactive health beneficial compounds and metabolomic profile. *Frontiers in Plant Science*. 8, 1887

Mojo, D., Fischer, C., Degefa, T. The determinants and economic impacts of membership in coffee farmer cooperatives: recent evidence from rural Ethiopia. *Journal of Rural Studies*. 50, 84-94

Morozova, K., Andreotti, C., Armani, M., Cavani, L., Cesco, S., Cortese, L., Gerbi, V., Mimmo, T., Spena, P.R., Scampicchio, M. Indirect effect of glyphosate on wine fermentation studied by microcalorimetry. *Journal of Thermal Analysis and Calorimetry*. 127, 2, 1351-1360

Nadalini, S., Zucchi, P., Andreotti, C. Effects of blue and red led lights on soilless cultivated strawberry growth performances and fruit quality. *European Journal of Horticultural Science*. 82,1,12-20

Pattamayutanon, P., Angeli, S., Thakeow, P., Abraham, J., Disayathanoowat, T., Chantawannakul, P. Volatile organic compounds of Thai honeys produced from several floral sources by different honey bee species. *PLoS ONE*. 12, 2.

Pauciullo, A., Gauly, M., Cosenza, G., Wagner, H., Erhardt, G. Lama glama α -casein: Identification of new polymorphisms in the CSN1S1 gene.. *Journal of Dairy Science*. 100, 2, 1282-1289

Pii, Y., Zamboni, A., Santo, S.D., Pezzotti, M., Varanini, Z., Pandolfini, T. Prospect on ionomic signatures for the classification of grapevine berries according to their geographical origin. *Frontiers in Plant Science*. 8, 640

Rahimian, S., Daş, G., Gauly, M. Maternal protection against *Ascaridia galli*? *Veterinary Parasitology*, 233, 43-47

- Reyes, F., Gianelle, D., Pallas, B., Costes, E., Pradal, C., Tagliavini, M., Zanotelli, D. A multi-scale model to explore carbon allocation in plants. *Acta Horticulturae*. 1160, 285-292
- Riek, A., Brinkmann, L., Gauly, M., Perica, J., Ruf, T., Arnold, W., Hambly, C., Speakman, J.R., Gerken, M. Seasonal changes in energy expenditure, body temperature and activity patterns in llamas (*Lama glama*). *Scientific Reports*. 7, 1,7600
- Ristorito, G., D'Incalci, P., Gallo, R., Mazzetto, F., Guglieri, G. Mission planning for the estimation of the field coverage of unmanned aerial systems in monitoring mission in precision farming. *Chemical Engineering Transactions*. 58, 649-654
- Ristorito, G., Gallo, R., Gasparetto, A., Scalera, L., Vidoni, R., Mazzetto, F. A mobile laboratory for orchard health status monitoring in precision farming. *Chemical Engineering Transactions*. 58, 661-666
- Roccuzzo, G., Scandellari, F., Allegra, M., Torrisi, B., Stagno, F., Mimmo, T., Zanotelli, D., Gioacchini, P., Millard, P., Tagliavini, M. Seasonal dynamics of root uptake and spring remobilisation of nitrogen in field grown orange trees. *Scientia Horticulturae*, 226, 223-230
- Santi, C., Molesini, B., Guzzo, F., Pii, Y., Vitulo, N., Pandolfini, T. Genome-wide transcriptional changes and lipid profile modifications induced by *medicago truncatula* N5 overexpression at an early stage of the symbiotic interaction with *sinorhizobium meliloti*. *Genes*, 8, 12, 396
- Scandellari, F. Arbuscular mycorrhizal contribution to nitrogen uptake of grapevines. *Vitis - Journal of Grapevine Research*. 5, 4, 147-154
- Scandellari, F., Liguori, G., Caruso, G., Meggio, F., Inglese, P., Gucci, R., Pitacco, A., Celano, G., Tagliavini, M. Carbon sequestration potential of Italian orchards and vineyards. *Acta Horticulturae*. 1177, 145-149
- Schmitz, W., Kramer, M., Erhardt, G., Gauly, M., Driancourt, M.-A., Holtz, W. Pregnancy rate after fixed-time artificial insemination of suckled beef cows subjected to a cosynch protocol with either buserelin or hCG as ovulation inducing agent. *Livestock Science*. 206, 141-147
- Spinelli, R., Marchi, E., Visser, R., Harrill, H., Gallo, R., Cambi, M., Neri, F., Lombardini, C., Magagnotti, N. Skyline tension, shock loading, payload and performance for a European cable yarder using two different carriage types. *European Journal of Forest Research*. 136, 1, 161-170
- Terzano, R., Cuccovillo, G., Pascazio, S., Crecchio, C., Lettino, A., Fiore, S., Tomasi, N., Pinton, R., Mimmo, T., Cesco, S. Degradation of citrate promotes copper co-precipitation within aluminium-(hydr)oxides in calcareous soils. *Biology and Fertility of Soils*. 53, 1, 115-128
- Toppel, K., Kaufmann, F., Schön, H., Gauly, M., Andersson, R. Development of mortality and foot pad health in Turkey flocks and its implication for welfare assessment *Berliner und Münchener Tierärztliche Wochenschrift*. 130, 258-265
- Turrini, A., Agnolucci, M., Palla, M., Tomé, E., Tagliavini, M., Scandellari, F., Giovannetti, M. Species diversity and community composition of native arbuscular mycorrhizal fungi in apple roots are affected by site and orchard management. *Applied Soil Ecology*. 116, 42-54

Vidoni, R., Gallo, R., Ristorto, G., Carabin, G., Mazzetto, F., Scalera, L., Gasparetto, A. Byelab : An agricultural mobile robot prototype for proximal sensing and precision farming. ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)

Vogt, A., Aditia, E.L., Schlechter, I., Schütze, S., Geburt, K., Gauly, M., König von Borstel, U. Inter- and intra-observer reliability of different methods for recording temperament in beef and dairy calves. *Applied Animal Behaviour Science*. 195, 15-23

Wenter, A., Zanotelli, D., Montagnani, L., Tagliavini, M., Andreotti, C. Effects of an early-summer drought stress on leaf photosynthesis, growth and yields of grapevine in mountain conditions. *Acta Horticulturae*. 1150, 457-462

Wille, S.C., Busch, G., Spiller, A. Transportation in pig husbandry: Does an increase in consumers' information and knowledge lead to a more positive attitude? *German Journal of Agricultural Economics*. 66, 1, 1-12

Wuthijaree, K., Lambertz, C., Gauly, M. Prevalence of gastrointestinal helminth infections in free-range laying hens under mountain farming production conditions. *British Poultry Science*. 58, 6, 649-655

2018

- Aguzzoni, A., Bassi, M., Robatscher, P., Tagliavini, M., Tirler, W., Scandellari, F. Plant Sr Isotope Ratios As Affected by the Sr Isotope Ratio of the Soil and of the External Sr Inputs. *Journal of Agricultural and Food Chemistry*. 66, 40, 10513-10521
- Ammer, S., Lambertz, C., von Soosten, D., Zimmer, K., Meyer, U., Dänicke, S., Gauly, M. Impact of diet composition and temperature–humidity index on water and dry matter intake of high-yielding dairy cows. *Journal of Animal Physiology and Animal Nutrition*. 102, 1, 103-113
- Armbrecht, L., Lambertz, C., Albers, D., Gauly, M. Does access to pasture affect claw condition and health in dairy cows? *Veterinary Record*. 182, 3, 79
- Astolfi, S., Pii, Y., Terzano, R., Mimmo, T., Celletti, S., Allegretta, I., Lafiandra, D., Cesco, S. Does Fe accumulation in durum wheat seeds benefit from improved whole-plant sulfur nutrition? *Journal of Cereal Science*. 83, 74-82
- Bakovic, V., Schebeck, M., Telschow, A., Stauffer, C., Schuler, H. Spatial spread of *Wolbachia* in *Rhagoletis cerasi* populations. *Biology Letters*. 14, 10.
- Basso, D., Patuzzi, F., Valentinuzzi, F., Mimmo, T., Tonon, G., Baratieri, M. Bioenergy and other high-value products to enhance soil fertility and mitigate climate change: The wood-up project on woody biomass gasification in south-tyrol. *European Biomass Conference and Exhibition Proceedings*. 26th EUBCE, 1080-1083
- Bietresato, M., Mazzetto, F. Increasing the safety of agricultural machinery operating on sloping grounds by performing static and dynamic tests of stability on a new-concept facility. *International Journal of Safety and Security Engineering*. 8, 1, 77-89
- Bietresato, M., Mazzetto, F. Ideation, realization and experimentation of prototype device for measuring farm tractor fuel consumption during dyno tests. *Engineering for Rural Development*. 17, 362-372
- Brunetto, G., Tiecher, T.L., Hammerschmitt, R.K., Facco, D.B., Ferreira, P.A.A., De Conti, L., Silva, L.O.S., Mayer, N.A., Antunes, L.E.C., Cesco, S., Mimmo, T. Peach rootstock tolerance to excess zinc in sandy acidic soil. *Acta Horticulturae*. 1217, 75-82
- Busch, G., Gauly, M., Spiller, A. Opinion paper: What needs to be changed for successful future livestock farming in Europe? *Animal*. 1, 3
- Busch, G., Spiller, A. Pictures in public communications about livestock farming. *Animal Frontiers*. 8, 1, 27-33
- Carranca, C., Brunetto, G., Tagliavini, M. Nitrogen nutrition of fruit trees to reconcile productivity and environmental concerns. *Plants*. 7, 1, 4
- Cellini, A., Giacomuzzi, V., Donati, I., Farneti, B., Rodriguez-Estrada, M.T., Savioli, S., Angeli, S., Spinelli, F. Pathogen-induced changes in floral scent may increase honeybee-mediated dispersal of *Erwinia amylovora*. *The ISME Journal*, 13, 847–859

Cloonan, K.R., Abraham, J., Angeli, S., Syed, Z., Rodriguez-Saona, C. Advances in the Chemical Ecology of the Spotted Wing Drosophila (*Drosophila suzukii*) and its Applications. *Journal of Chemical Ecology*. 44, 10, 922-939

Coppa, E., Celletti, S., Pii, Y., Mimmo, T., Cesco, S., Astolfi, S. Revisiting Fe/S interplay in tomato: A split-root approach to study the systemic and local responses. *Plant Science*. 276, 134-142

Daş, G., Hennies, M., Tuchscherer, A., Gauly, M. Time- and dose-dependent development of humoral immune responses to *Ascaridia galli* in experimentally and naturally infected chickens. *Veterinary Parasitology*. 255, 10-19

Daş, G., Westermark, P.O., Gauly, M. Diurnal variation in egg excretion by *Heterakis gallinarum*. *Parasitology*. 1, 7

De Conti, L., Ceretta, C.A., Tiecher, T.L., da Silva, L.O.S., Tassinari, A., Somavilla, L.M., Mimmo, T., Cesco, S., Brunetto, G. Growth and chemical changes in the rhizosphere of black oat (*Avena strigosa*) grown in soils contaminated with copper. *Ecotoxicology and Environmental Safety*. 163, 19-27

De Conti, L., Melo, G.W., Ceretta, C.A., Tarouco, C.P., Marques, A.C.R., Nicoloso, F.T., Tassinari, A., Tiecher, T.L., Cesco, S., Mimmo, T., Brunetto, G. Photosynthesis and growth of young grapevines intercropped with native grasses in soils contaminated with copper. *Acta Horticulturae*. 1217, 179-184

Doellman, M.M., Ragland, G.J., Hood, G.R., Meyers, P.J., Egan, S.P., Powell, T.H.Q., Lazorchak, P., Glover, M.M., Tait, C., Schuler, H., Hahn, D.A., Berlocher, S.H., Smith, J.J., Nosil, P., Feder, J.L. Genomic differentiation during speciation-with-gene-flow: Comparing geographic and host-related variation in divergent life history adaptation in *rhagoletis pomonella*. *Genes*. 9, 5, 262

Ferreira, P.A.A., Marchezan, C., Ceretta, C.A., Tarouco, C.P., Lourenzi, C.R., Silva, L.S., Soriani, H.H., Nicoloso, F.T., Cesco, S., Mimmo, T., Brunetto, G. Soil amendment as a strategy for the growth of young vines when replanting vineyards in soils with high copper content. *Plant Physiology and Biochemistry*. 126, 152-162

Franzoni, G., Cocetta, G., Trivellini, A., Angeli, S., Ferrante, A. Abscisic acid and carotenoids metabolism in tomato during postharvest. *Acta Horticulturae*. 1194, 381-387

Garza, D., Camacho, M., Gauly, M., Holtz, W. Technical Note: Transfer of caprine blastocysts vitrified by the open pulled straw (OPS) or the solid surface procedure and warmed in sucrose-free medium. *Small Ruminant Research*. 165, 111-114

Gattullo, C.E., Pii, Y., Allegretta I., Medici, L., Cesco, S., Mimmo T., Terzano, R. Iron Mobilization and Mineralogical Alterations Induced by Iron-Deficient Cucumber Plants (*Cucumis sativus* L.) in a Calcareous Soil. *Pedosphere*. 28, 1, 59-69

Gieseke, D., Lambertz, C., Gauly, M. Relationship between herd size and measures of animal welfare on dairy cattle farms with freestall housing in Germany. *Journal of Dairy Science*. 101, 8, 7397-7411

Grethe, H., Arens-Azevedo, U., Balmann, A., Biesalski, H.K., Birner, R., Bokelmann, W., Christen, O., Gauly, M., Knierim, U., Latacz-Lohmann, U., Martínez, J., Nieberg, H., Offermann, F., Pischetsrieder, M., Qaim, M., Renner, B., Schmid, J.C., Spiller, A., Taube, F., Voget-Kleschin, L., Weingarten, P. For a

- Common Good Agricultural Policy of the EU beyond 2020: Policy issues and recommendations. 2018. *Berichte über Landwirtschaft*. 96,1, 103
- Kaba, J.S., Zerbe, S., Zanotelli, D., Abunyewa, A.A., Tagliavini, M. Uptake of nitrogen by cocoa (*Theobroma cocoa* L.) trees derived from soil decomposition of gliricidia (*Gliricidia sepium* Jacq.) shoots. *Acta Horticulturae*. 1217, 263-269
- Lambertz, C., Pouloupoulou, I., Wuthijaree, K., Gauly, M. Endoparasitic infections and prevention measures in sheep and goats under mountain farming conditions in Northern Italy. *Small Ruminant Research*. 164, 94-101
- Madey-Rindermann, D., Vom Brocke, A.L., Schröder, L., Wendt, M., Gauly, M., Dippel, S. Intervention program for the reduction of tail biting in fattening pigs. *Praktische Tierarzt*. 99, 9, 913-921
- Meyer-Hamme, S.E.K., Lambertz, C., Gauly, M. Assessing the welfare level of intensive fattening pig farms in Germany with the Welfare Quality® protocol: does farm size matter? *Animal Welfare*. 27,3,275-286
- Mimmo, T., Pii, Y., Valentinuzzi, F., Astolfi, S., Lehto, N., Robinson, B., Brunetto, G., Terzano, R., Cesco, S. Nutrient availability in the rhizosphere: A review. *Acta Horticulturae*. 1217, 13-27
- Montagnani, L., Zanotelli, D., Tagliavini, M., Tomelleri, E. Timescale effects on the environmental control of carbon and water fluxes of an apple orchard. *Ecology and Evolution*. 8, 1, 416-434
- Nocker, M., Sottocornola, G., Zanker, M., Baric, S., Carneiro, G.A., Stella, F. Picture-based navigation for diagnosing post-harvest diseases of apple. *RecSys 2018 - 12th ACM Conference on Recommender Systems*. 506-507
- Penna, D., Hopp, L., Scandellari, F., Allen, S.T., Benettin, P., Beyer, M., Geris, J., Klaus, J., Marshall, J.D., Schwendenmann, L., Volkmann, T.H.M., Von Freyberg, J., Amin, A., Ceperley, N., Engel, M., Frentress, J., Giambastiani, Y., McDonnell, J.J., Zuecco, G., Llorens, P., Siegwolf, R.T.W., Dawson, T.E., Kirchner, J.W. Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes - Challenges and opportunities from an interdisciplinary perspective. *Biogeosciences*. 15, 21, 6399-6415
- Pii, Y., Graf, H., Valentinuzzi, F., Cesco, S., Mimmo, T. The effects of plant growth-promoting rhizobacteria (PGPR) on the growth and quality of strawberries. *Acta Horticulturae*, 1217, 231-238
- Pouloupoulou, I., Eggemann, A., Moors, E., Lambertz, C., Gauly, M. Does feeding frequency during lactation affect sows' body condition, reproduction and production performance? *Animal Science Journal*. 89, 11, 1591-1598
- Pouloupoulou, I., Nock, M.C., Steinmayer, S., Lambertz, C., Gauly, M. How can working time analysis contribute to the production efficiency of dairy farms in mountain regions? *Italian Journal of Animal Science*. 17, 2, 489-498
- Reinbacher, L., Fernández-Ferrari, M.C., Angeli, S., Schausberger, P. Effects of metarhizium anisopliae on host choice of the bee-parasitic mite varroa destructor. *Acarologia*. 58, 2, 287-295
- Saint Jean, G., Hood, G.R., Egan, S.P., Powell, T.H.Q., Schuler, H., Doellman, M.M., Glover, M.M., Smith, J.J., Yee, W.L., Goughnour, R.B., Thistlewood, H.M.A., Maxwell, S.A., Keyghobadi, N., Rull, J., Aluja, M.,

- Feder, J.L. Limited genetic evidence for host plant-related differentiation in the Western cherry fruit fly, *Rhagoletis indifferens*. *Entomologia Experimentalis et Applicata*. 166, 9,739-751
- Salvagnin, U., Malnoy, M., Thöming, G., Tasin, M., Carlin, S., Martens, S., Vrhovsek, U., Angeli, S., Anfora, G. Adjusting the scent ratio: using genetically modified *Vitis vinifera* plants to manipulate European grapevine moth behavior. *Plant Biotechnology Journal*. 16, 1, 264-271
- Scandellari, F., Tagliavini, M. The use of the ¹⁵N stable isotope technique to improve the management of nitrogen nutrition of fruit trees – A mini review. *Acta Horticulturae*. 1217, 191-200
- Schaller L., Targetti S., Villanueva A. J., Kantelhardt J., Bossi Fedrigotti V., Arriaza M., Bal T., Giray F. H., Häfner K., Örmeci Kart Ç., Majewski E., Malak-Rawlikowska A., Nikolov D., Paoli J Ch., Piorr A., Ungaro F., Verburg P., Zanten B., Zasada I., Viaggi D. Agricultural landscapes, ecosystem services and regional competitiveness—Assessing drivers and mechanisms in nine European case study areas. *Land Use Policy*. 76, 735-745
- Schebeck, M., Dowle, E.J., Schuler, H., Avtzis, D.N., Bertheau, C., Feder, J.L., Ragland, G.J., Stauffer, C. Pleistocene climate cycling and host plant association shaped the demographic history of the bark beetle *Pityogenes chalcographus*. *Scientific Reports*. 8,
- Schebeck, M., Feldkirchner, L., Marín, B., Krumböck, S., Schuler, H., Stauffer, C. Reproductive Manipulators in the Bark Beetle *Pityogenes chalcographus* (Coleoptera: Curculionidae)-The Role of *Cardinium*, *Rickettsia*, *Spiroplasma*, and *Wolbachia*. *Journal of insect science (Online)*, 18, 3
- Schuler, H., Egan, S.P., Hood, G.R., Busbee, R.W., Driscoe, A.L., Ott, J.R. Diversity and distribution of *Wolbachia* in relation to geography, host plant affiliation and life cycle of a heterogonic gall wasp. *BMC Evolutionary Biology*. 18, 1, 37
- Schulte, H.D., Armbrecht, L., Bürger, R., Gaulty, M., Musshoff, O., Hüttel, S. Let the cows graze: An empirical investigation on the trade-off between efficiency and farm animal welfare in milk production. *Land Use Policy*. 79, 375-385
- Soppelsa, S., Kelderer, M., Casera, C., Bassi, M., Robatscher, P., Andreotti, C. Use of biostimulants for organic apple production: effects on tree growth, yield, and fruit quality at harvest and during storage. *Frontiers in Plant Science*. 9, 1342
- Stehr, M., Sciascia, Q., Metges, C.C., Gaulty, M., Daş, G. Co-expulsion of *Ascaridia galli* and *Heterakis gallinarum* by chickens. *International Journal for Parasitology* 48 13 1003 1016
- Thoma, M., Frentress, J., Tagliavini, M., Scandellari, F. Comparison of pore water samplers and cryogenic distillation under laboratory and field conditions for soil water stable isotope analysis. *Isotopes in Environmental and Health Studies*. 54, 4, 403-417
- Valentinuzzi, F., Cologna, K., Pii, Y., Mimmo, T., Cesco, S. Assessment of silicon biofortification and its effect on the content of bioactive compounds in strawberry (*Fragaria × ananassa* 'Elsanta') fruits. *Acta Horticulturae*. 1217, 307-312

Valentinuzzi, F., Maver, M., Fontanari, S., Mott, D., Savini, G., Tiziani, R., Pii, Y., Mimmo, T., Cesco, S. Foliar application of potassium-based fertilizer improves strawberry fruit quality. *Acta Horticulturae*. 1217, 379-384

Valentinuzzi, F., Pii, Y., Mimmo, T., Savini, G., Curzel, S., Cesco, S. Fertilization strategies as a tool to modify the organoleptic properties of raspberry (*Rubus idaeus* L.) fruits. *Scientia Horticulturae*. 240, 205-212

Varanini, Z., Cesco, S., Tomasi, N., Pinton, R., Guzzo, F., Zamboni, A., Schloter-Hai, B., Schloter, M., Giagnoni, L., Arenella, M., Nannipieri, P., Renella, G. Nitrate induction and physiological responses of two maize lines differing in nitrogen use efficiency: effects on N availability, microbial diversity and enzyme activity in the rhizosphere. *Plant and Soil*. 422, 331-347

Vigani, G., Pii, Y., Celletti, S., Maver, M., Mimmo, T., Cesco, S., Astolfi, S. Mitochondria dysfunctions under Fe and S deficiency: is citric acid involved in the regulation of adaptive responses? *Plant Physiology and Biochemistry*. 126, 86-96

Vom Brocke, A.L., Karnholz, C., Madey-Rindermann, D., Gauly, M., Leeb, C., Winckler, C., Schrader, L., Dippel, S. Tail lesions in fattening pigs: Relationships with postmortem meat inspection and influence of a tail biting management tool. *Animal*. 13, 4, 835-844.

Von Borstel, U.K., Tönepöhl, B., Appel, A.K., Voß, B., Brandt, H., Naderi, S., Gauly, M. Suitability of traits related to aggression and handleability for integration into pig breeding programmes: Genetic parameters and comparison between Gaussian and binary trait specifications. *PLoS ONE*. 13, 12

Wenter, A., Zanotelli, D., Montagnani, L., Tagliavini, M., Andreotti, C. Effect of different timings and intensities of water stress on yield and berry composition of grapevine (cv. Sauvignon blanc) in a mountain environment. *Scientia Horticulturae*. 236, 16, 137- 145