



Adank Astrid 22.04.2013

Liste der ART-Publikationen 2012

Peer-reviewed

Albrecht, M., Schmid, B., Hautier, Y., & Müller, C. B. (2012). Diverse pollinator communities enhance plant reproductive success. *Proceedings of the Royal Society B: Biological Sciences*, 279, 4848-4852.

Álvarez-Alfageme, F., Lüthi, C., & Romeis, J. (2012). Characterization of digestive enzymes of bruchid parasitoids-initial steps for environmental risk assessment of genetically modified legumes. *PLoS ONE*, 7 (5), e36862.

Álvarez-Alfageme, F., Pálincás, Z., Bigler, F., & Romeis, J. (2012). Development of an Early-Tier Laboratory Bioassay for Assessing the Impact of Orally-Active Insecticidal Compounds on Larvae of *Coccinella septempunctata* (Coleoptera: Coccinellidae). *Environmental Entomology*, 41 (6), 1687-1693.

Anken, T., Holpp, M., Rek, J., & Weisskopf, P. (2012). Soil and plant responses to controlled traffic farming in Switzerland. *Agrosciencia Uruguay*, Special Issue (September), 255-260.

Bassin, S., Schalajda, J., Vogel, A., & Suter, M. (2012). Different types of sub-alpine grassland respond similarly to elevated nitrogen deposition in terms of productivity and sedge abundance. *Journal of Vegetation Science*, 23 (6), 1024-1034.

Berisso, F. E., Schjønning, P., Keller, T., Lamandé, M., Etana, A., de Jonge, L. W., Iversen, B. V., Arvidsson, J., & Forkman, J. (2012). Persistent effects of subsoil compaction on pore size distribution and gas transport in a loamy soil. *Soil and Tillage Research*, 122, 42-51.

Blanke, V., Bassin, S., Volk, M., & Fuhrer, J. (2012). Nitrogen deposition effects on subalpine grassland: The role of nutrient limitations and changes in mycorrhizal abundance. *Acta Oecologica*, 45, 57-65.

Boller, B., Schierscher-Viret, B., & Koehler, C. (2012). Development of an *in situ* database inventory - on the way to a Swiss solution for forages. In N. Maxted, M. E. Dulloo, B. V. Ford-Lloyd, L. Frese, J. Iriando, & M. A. A. Pinheiro de Carvalho (Eds.), *Agrobiodiversity conservation: securing the diversity of crop wild relatives and landraces*. Wallingford, UK and Cambridge, Massachusetts, USA: CABI, 264-269.

Bünemann, E. K., Oberson, A., Liebisch, F., Keller, F., Annaheim, K. E., Huguenin-Elie, O., & Frossard, E. (2012). Rapid microbial phosphorus immobilization dominates gross phosphorus fluxes in a grassland soil with low inorganic phosphorus availability. *Soil Biology and Biochemistry*, 51, 84-95.

Carstens, K., Anderson, J., Bachman, P., De Schrijver, A., Dively, G., Federici, B., Hamer, M., Gielkens, M., Jensen, P., Lamp, W., Rauschen, S., Ridley, G., Romeis, J., & Waggoner, A. (2012). Genetically modified crops and aquatic ecosystems: considerations for environmental risk assessment and non-target organism testing. *Transgenic Research*, 21, 813-842.

Castro, I. M. L., Gygax, L., Wechsler, B., & Hauser, R. (2012). Effect of short and long periods of separation on agonistic behaviour, injuries and stress in Hérens cows kept in loose housing. *Applied Animal Behaviour Science*, 136 (2-4), 96-103.

Chaturvedi, S., Tewari, V., Sharma, S., Oehl, F., Wiemken, A., Prakash, A., & Sharma, A. K. (2012). Diversity of arbuscular mycorrhizal fungi in oak-pine forests and agricultural land prevalent in the Kumaon Himalayan hills, Uttarakhand, India. *British Microbiology Research Journal*, 2 (2), 82-96.

Concepción, E. D., Díaz, M., Kleijn, D., Báldi, A., Batáry, P., Clough, Y., Gabriel, D., Herzog, F., Holzschuh, A., Knop, E., Marshall, E. J. P., Tscharnkte, T., & Verhulst, J. (2012). Interactive effects of landscape context constrain the effectiveness of local agri-environmental management. *Journal of Applied Ecology*, 49 (3), 695-705.

da Silva, D., Pereira, C., de Souza, R., da Silva, G., Oehl, F., & Maia, L. (2012). Diversity of arbuscular mycorrhizal fungi in restinga and dunes areas in Brazilian Northeast. *Biodiversity and Conservation*, 21 (9), 2361-2373.

De Bruijn, A. M. G., Calanca, P., Ammann, C., & Fuhrer, J. (2012). Differential long-term effects of climate change and management on stocks and distribution of soil organic carbon in productive grasslands. *Biogeosciences*, 9 (6), 1997-2012.

de Mello, C. M. A., da Silva, G. A., Vieira, H. E. E., da Silva, I. R., Maia, L. C., & Oehl, F. (2012). *Fuscutata aurea*, a new species in the Glomeromycetes from cassava and maize fields in the Atlantic rainforest zone of Northeastern Brazil. *Nova Hedwigia*, 95 (1-2), 267-275.

Devos, Y., Schrijver, A., Clercq, P., Kiss, J., & Romeis, J. (2012). Bt-maize event MON 88017 expressing Cry3Bb1 does not cause harm to non-target organisms. *Transgenic Research*, 21 (6), 1191-1214.

Deytieux, V., Nemecek, T., Freiermuth Knuchel, R., Gaillard, G., & Munier-Jolain, N. M. (2012). Is Integrated Weed Management efficient for reducing environmental impacts of cropping systems? A case study based on life cycle assessment. *European Journal of Agronomy*, 36 (1), 55-65.

Díaz-de-Quijano, M., Schaub, M., Bassin, S., Volk, M., & Peñuelas, J. (2012). Ozone visible symptoms and reduced root biomass in the subalpine species *Pinus uncinata* after two years of free-air ozone fumigation. *Environmental Pollution*, 169, 250-257.

Dobricki, M., & Lips, M. (2012). Communication in Swiss farming cooperatives. *Journal of Rural Cooperation*, 40 (1), 29-43.

Dutra, C. C., Koch, R. L., Burkness, E. C., Meissle, M., Romeis, J., Hutchison, W. D., & Fernandes, M. G. (2012). *Harmonia axyridis* (Coleoptera: Coccinellidae) exhibits no preference between Bt and Non-Bt maize fed *Spodoptera frugiperda* (Lepidoptera: Noctuidae). *PLoS ONE*, 7 (9), e44867.

Egartner, A., Heimbach, U., & Grabenweger, G. (2012). A new method for efficacy testing of control measures against adult Western Corn Rootworm in maize - Eine neue Methode zur Wirksamkeitsprüfung von Insektizidengegen Käfer des Westlichen Maiswurzelbohrers in Mais. *Journal für Kulturpflanzen*, 64 (9), 342-347.

Eggenschwiler, L., Roubinet, E., Tisch, C., Rodriguez, P., & Jacot, K. (2012). Suitability of two different trap types for catching aphid antagonists and pollinators. *IOBC/wprs Bulletin*, 75, 69-72.

Eggenschwiler, L., Speiser, B., Bosshard, A., & Jacot, K. (2012). Improved field margins highly increase slug activity in Switzerland. *Agronomy for Sustainable Development*, online, 1-6.

El Benni, N., Finger, R., & Mann, S. (2012). Effects of agricultural policy reforms and farm characteristics on income risk in Swiss agriculture. *Agricultural Finance Review*, 72 (3), 301-324.

Felber, R., Conen, F., Flechard, C. R., & Neftel, A. (2012). The acetylene inhibition technique to determine total denitrification ($N_2 + N_2O$) losses from soil samples: potentials and limitations. *Biogeosciences Discuss*, 9, 2851-2882.

Felber, R., Conen, F., Flechard, C. R., & Neftel, A. (2012). Theoretical and practical limitations of the acetylene inhibition technique to determine total denitrification losses. *Biogeosciences*, 9, 4125-4138.

Felber, R., Hüppi, R., Leifeld, J., & Neftel, A. (2012). Nitrous oxide emission reduction in temperate biochar-amended soils. *Biogeosciences Discuss*, 9, 151-189.

Foetzki, A., Quijano, C. D., Moullet, O., Fammartino, A., Kneubuehler, Y., Mascher, F., Sautter, C., & Bigler, F. (2012). Surveying of pollen-mediated crop-to-crop gene flow from a wheat field trial as a biosafety measure. *GM Crops and Food*, 3 (2), 155-122.

Fuhrer, J., & Jasper, K. (2012). Demand and supply of water for agriculture: Influence of topography and climate in pre-alpine, mesoscale catchments. *Natural Resources*, 3 (3), 145-155.

Gogos, A., Knauer, K., & Bucheli, T. D. (2012). Nanomaterials in plant protection and fertilization: Current state, foreseen applications, and research priorities. *Journal of Agricultural and Food Chemistry*, 60 (39), 9781-9792.

Goto, B. T., Jardim, J. G., Silva, G. A., Furrázola, E., Torres-Arias, Y., & Oehl, F. (2012). *Glomus trufemii* (Glomeromycetes), a new sporocarpic species from Brazilian sand dunes. *Mycotaxon*, 120 (April-June), 1-9.

- Güsewell, S., Peter, M., & Birrer, S. (2012). Altitude modifies species richness–nutrient indicator value relationships in a country-wide survey of grassland vegetation. *Ecological Indicators*, 20, 134-142.
- Gygax, L., Reefmann, N., Wolf, M., & Langbein, J. (2012). Prefrontal cortex activity, sympatho-vagal reaction and behaviour distinguish between situations of feed reward and frustration in dwarf goats. *Behavioural Brain Research*, 239, 104-114.
- Hahn, C., Prasuhn, V., Stamm, C., & Schulin, R. (2012). Phosphorus losses in runoff from manured grassland of different soil P status at two rainfall intensities. *Agriculture, Ecosystems and Environment*, 153, 65-74.
- Håkansson, I., Keller, T., Arvidsson, J., & Rydberg, T. (2012). Effects of seedbed properties on crop emergence. 4. Inhibitory effects of oxygen deficiency. *Acta Agriculturae Scandinavica, Section B - Soil and Plant Science*, 62 (2), 166-171.
- Håkansson, I., Keller, T., Arvidsson, J., & Rydberg, T. (2012). Effects of seedbed properties on crop emergence. 5. Effects of aggregate size, sowing depth and simulated rainfall after sowing on harmful surface-layer hardening. *Acta Agriculturae Scandinavica, Section B - Soil & Plant Science*, 62 (4), 362-373.
- Haufe, H. C., Gygax, L., Wechsler, B., Stauffacher, M., & Friedli, K. (2012). Influence of floor surface and access to pasture on claw health in dairy cows kept in cubicle housing systems. *Preventive Veterinary Medicine*, 105 (1-2), 85-92.
- Herrmann, J. D., Kormann, U., Schüepp, C., Stocker, Y., Herzog, F., & Entling, M. H. (2012). Effects of habitat isolation and predation pressure on an arboreal food-web. *Community Ecology*, 13 (1), 82-87.
- Hilber, I., Blum, F., Leifeld, J., Schmidt, H.-P., & Bucheli, T. D. (2012). Quantitative determination of PAHs in biochar: A prerequisite to ensure its quality and safe application. *Journal of Agricultural and Food Chemistry*, 60 (12), 3042-3050.
- Hirschi, M., Spirig, C., Weigel, A. P., Calanca, P., Samietz, J., & Rotach, M. W. (2012). Monthly weather forecasts in a pest forecasting context: Downscaling, recalibration, and skill improvement. *Journal of Applied Meteorology and Climatology*, 51 (9), 1633-1638.
- Hirschi, M., Stoeckli, S., Dubrovsky, M., Spirig, C., Calanca, P., Rotach, M. W., Fischer, A. M., Duffy, B., & Samietz, J. (2012). Downscaling climate change scenarios for apple pest and disease modeling in Switzerland. *Earth System Dynamics*, 3, 33-47.
- Holzkämper, A., Calanca, P., & Fuhrer, J. (2012). Statistical crop models: predicting the effects of temperature and precipitation changes. *Climate Research*, 51 (1), 11-21.
- Holzkämper, A., Kumar, V., Surridge, B. W., Paetzold, A., & Lerner, D. N. (2012). Bringing diverse knowledge sources together - A meta-model for supporting integrated catchment management. *Journal of Environmental Management*, 96 (1), 116-127.

Huggel, C., Rohrer, M., Calanca, P., Salzmänn, N., Vergara, W., Quispe, N., & Ceballos, J. L. (2012). Early warning systems: The "Last mile" of adaptation. *Eos* 93 (22), 209-210.

Humbert, J.-Y., Ghazoul, J., Richner, N., & Walter, T. (2012). Uncut grass refuges mitigate the impact of mechanical meadow harvesting on orthopterans. *Biological Conservation*, 152, 96-101.

Idler, C., Wagner, A., Weber, U., & Hoffmann, T. (2012). Effect of short-term storage on quality of wheat stored in large polyethylene bags. *Agricultural Engineering International: CIGR Journal*, 14 (1), 1-12.

Jacot, K., Eggenschwiler, L., Beerli, C., Bosshard, A., & Suter, M. (2012). Significance of different types of meadow edges for plant diversity in the Swiss Alps. *Agriculture, Ecosystems and Environment*, 153, 75-81.

Jan, P., Dux, D., Lips, M., Alig, M., & Dumondel, M. (2012). On the link between economic and environmental performance of Swiss dairy farms of the alpine area. *The International Journal of Life Cycle Assessment*, 17 (6), 706-719.

Jan, P., Lips, M., & Dumondel, M. (2012). Total factor productivity change of Swiss dairy farms in the mountain region in the period 1999 to 2008. *Review of Agricultural and Environmental Studies*, 93 (3), 273-298.

Kampmann, D., Lüscher, A., Konold, W., & Herzog, F. (2012). Agri-environment scheme protects diversity of mountain grassland species. *Land Use Policy*, 29 (3), 569-576.

Kapphan, I., Calanca, P., & Holzkaemper, A. (2012). Climate change, weather insurance design and hedging effectiveness. *The Geneva Papers*, 37 (2), 286-317.

Keil, N. M., Imfeld-Mueller, S., Aschwanden, J., & Wechsler, B. (2012). Are head cues necessary for goats (*Capra hircus*) in recognising group members? *Animal Cognition*, 15 (5), 913-921.

Keller, T., Arvidsson, J., Schjønning, P., Lamandé, M., Stettler, M., & Weisskopf, P. (2012). *In situ* subsoil stress-strain behavior in relation to soil precompression stress. *Soil Science*, 177 (8), 490-497

Keller, T., & Dexter, A. R. (2012). Plastic limits of agricultural soils as functions of soil texture and organic matter content. *Soil Research*, 50 (1), 7-17.

Keller, T., Sutter, J. A., Nissen, K., & Rydberg, T. (2012). Using field measurement of saturated soil hydraulic conductivity to detect low-yielding zones in three Swedish fields. *Soil and Tillage Research*, 124, 68-77.

Kipfer, T., Wohlgemuth, T., van der Heijden, M. G. A., Ghazoul, J., & Egli, S. (2012). Growth response of drought-stressed *Pinus sylvestris* seedlings to single- and multi-species inoculation with ectomycorrhizal fungi. *PLoS ONE*, 7 (4), e35275.

- Klein, T., Calanca, P., Holzkämper, A., Lehmann, N., Roesch, A., & Fuhrer, J. (2012). Using farm accountancy data to calibrate a crop model for climate impact studies. *Agricultural Systems*, 111, 23-33.
- Konz, N., Prasuhn, V., & Alewell, C. (2012). On the measurement of alpine soil erosion. *Catena*, 91, 63-71.
- Leifeld, J. (2012). How sustainable is organic farming? *Agriculture, Ecosystems and Environment*, 150, 121-122.
- Leifeld, J., & Grünig, A. (2012). Response to Interpreting the ash trend within ombrotrophic bog profiles: atmospheric dust depositions vs. mineralization processes. The Etang de la Gruère case study. *Plant and Soil*, 353 (1), 11-14.
- Leifeld, J., Steffens, M., & Galego-Sala, A. (2012). Sensitivity of peatland carbon loss to organic matter quality. *Geophysical Research Letters*, 39 (14), L14704.
- Lips, M., & Burose, F. (2012). Repair and maintenance costs for agricultural machines. *International Journal of Agricultural Management*, 1 (3), 40-46.
- Lips, M., & Burose, F. (2012). Reparatur- und Unterhaltskosten von Traktoren in Deutschland. *Schriften der Gesellschaft für Wirtschafts- und Sozialwissenschaften des Landbaus e.V.*, 47, 475-476.
- Mann, S. (2012). Der Nutzen der Mesoökonomie für ökologische Paradigmenbildung am Beispiel der Agrarökonomie. *Jahrbuch für Wirtschaftswissenschaften*, 63, 365-375.
- Mann, S. (2012). Swiss agricultural policy - Taking multifunctionality to the extreme. *Stowarzyszenie Ekonomistów Rolnictwa i Agrobiznesu*, XIV (6), unpag.
- Mann, S., Ferjani, A., & Reissig, L. (2012). "What matters to consumers of organic wine?". *British Food Journal*, 144 (2), 272-284.
- Mann, S., & Gairing, M. (2012). Does libertarian paternalism reconcile merit goods theory with mainstream Economics? *Forum for Social Economics*, 41 (2-3), 206-219.
- Mann, S., & Gairing, M. (2012). "Loyals" and "Optimizers": Shedding light on the decision for or against organic agriculture among Swiss farmers. *Journal of Agricultural and Environmental Ethics*, 25 (3), 365-376.
- Meissle, M., Álvarez-Alfageme, F., Malone, L. A., & Romeis, J. (2012). Establishing a database of bio-ecological information on non-target arthropod species to support the environmental risk assessment of genetically modified crops in the EU. *Supporting Publications 2012: EN-334: European Food Safety Authority (EFSA)*, Parma, Italy, 1-170, Available online: <http://www.efsa.europa.eu/en/publications.htm>.

Meissle, M., Knecht, S., Waldburger, M., & Romeis, J. (2012). Sensitivity of the cereal leaf beetle *Oulema melanopus* (Coleoptera: Chrysomelidae) to Bt maize-expressed Cry3Bb1 and Cry1Ab. *Arthropod-Plant Interactions*, 6 (2), 203-211.

Meissle, M., & Romeis, J. (2012). No accumulation of Bt protein in *Phylloneta impressa* (Araneae: Theridiidae) and prey arthropods in Bt maize. *Environmental Entomology*, 41 (4), 1037-1042.

Meyer, S., Leifeld, J., Bahn, M., & Fuhrer, J. (2012). Free and protected soil organic carbon dynamics respond differently to abandonment of mountain grassland. *Biogeosciences*, 9 (2), 853-865.

Meyer, S., Leifeld, J., Bahn, M., & Fuhrer, J. (2012). Land-use change in subalpine grassland soils: Effect on particulate organic carbon fractions and aggregation. *Journal of plant nutrition and soil science*, 175 (3), 401-409.

Mouron, P., Aubert, U., Heijne, B., Naef, A., Strassemeyer, J., Hayer, F., Gaillard, G., Mack, G., Hernandez, J., Avilla, J., Solé, J., Sauphanor, B., Alaphilippe, A., Patocchi, A., Samietz, J., Höhn, H., Bravin, E., Lavigne, C., Bohanec, M., & Bigler, F. (2012). A Multi-attribute decision method for assessing the overall sustainability of crop protection strategies: A case study based on apple production in Europe. In A. A. Marta-Costa, Silva, E. (Ed.), *Methods and Procedures for Building Sustainable Farming Systems*: Springer, 123-137.

Mouron, P., Heijne, B., Naef, A., Strassemeyer, J., Hayer, F., Avilla, J., Alaphilippe, A., Höhn, H., Hernandez, J., Mack, G., Gaillard, G., Solé, J., Sauphanor, B., Patocchi, A., Samietz, J., Bravin, E., Lavigne, C., Bohanec, M., Golla, B., Scheer, C., Aubert, U., & Bigler, F. (2012). Sustainability assessment of crop protection systems: SustainOS methodology and its application for apple orchards. *Agricultural Systems*, 113, 1-15.

Naderi-Boldaji, M., Alimardani, R., Hemmat, A., Sharifi, A., Keyhani, A., Dolatsha, N., & Keller, T. (2012). Improvement and field testing of a combined horizontal penetrometer for on-the-go measurement of soil water content and mechanical resistance. *Soil and Tillage Research*, 123, 1-10.

Nemecek, T., Weiler, K., Plassmann, K., Schnetzer, J., Gaillard, G., Jefferies, D., García-Suárez, T., King, H., & Milá i Canals, L. (2012). Estimation of the variability in global warming potential of worldwide crop production using a modular extrapolation approach. *Journal of Cleaner Production*, 31, 106-117.

Oehl, F., Castillo, C., Schneider, D., Sälé, V., & Sieverding, E. (2012). *Ambispora reticulata*, a new species in the Glomeromycota from mountainous areas in Switzerland and Chile. *Journal of Applied Botany and Food Quality* 85, 129-133.

Oehl, F., Palenzuela, J., Sánchez-Castro, I., Kuss, P., Sieverding, E., & Silva, G. A. d. (2012). *Acaulospora nivalis*, a new fungus in the Glomeromycetes, characteristic for high alpine and nival altitudes of the Swiss Alps. *Nova Hedwigia*, 95 (1-2), 105-122.

Patt, A., Gygax, L., Wechsler, B., Hillmann, E., Palme, R., & Keil, N. M. (2012). The introduction of individual goats into small established groups has serious negative effects on the introduced goat but not on resident goats. *Applied Animal Behaviour Science*, 138 (1-2), 47-59.

Pilz, C., Toepfer, S., Knuth, P., Strimitzer, T., Heimbach, U., & Grabenweger, G. (2012). Persistence of the entomoparasitic nematode *Heterorhabditis bacteriophora* in maize fields. *Journal of Applied Entomology*, online (6 July 2012), 1-11.

Prasuhn, V. (2012). On-farm effects of tillage and crops on soil erosion measured over 10 years in Switzerland. *Soil and Tillage Research*, 120, 137-146.

Reefmann, N., Muehleemann, T., Wechsler, B., & Gygax, L. (2012). Housing induced mood modulates reactions to emotional stimuli in sheep. *Applied Animal Behaviour Science*, 136 (2-4), 146-155.

Roesch, A. (2012). Factors affecting the situation of economically weak farms in Switzerland. *Agricultural Economics Review*, 13 (1), 23-38.

Romeis, J. (2012). Grüne Gentechnik: Forschung zwischen Anspruch und Wirklichkeit. 5. Fachtagung zur Grünen Gentechnik: Grüne Gentechnologie: Forschung zwischen Anspruch und Wirklichkeit. Wie weiter nach NFP59 und Moratorium? ETH Zurich, September 2nd 2011. 15-20.

Ryu, Y., Baldocchi, D. D., Black, T. A., Detto, M., Law, B. E., Leuning, R., Miyata, A., Reichstein, M., Vargas, R., Ammann, C., Beringer, J., Flanagan, L. B., Gu, L., Hutley, L. B., Kim, J., McCaughey, H., Moors, E. J., Rambal, S., & Vesala, T. (2012). On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. *Agricultural and Forest Meteorology*, 152, 212-222.

Sanvido, O., Romeis, J., Gathmann, A., Gielkens, M., Raybould, A., & Bigler, F. (2012). Evaluating environmental risks of genetically modified crops: ecological harm criteria for regulatory decision-making. *Environmental Science & Policy*, 15 (1), 82-91.

Schenzel, J., Forrer, H.-R., Vogelgsang, S., & Bucheli, T. (2012). Development, validation and application of a multi-mycotoxin method for the analysis of whole wheat plants. *Mycotoxin Research*, 28 (2), 135-147.

Schenzel, J., Forrer, H.-R., Vogelgsang, S., Hungerbühler, K., & Bucheli, T. D. (2012). Mycotoxins in the environment: I. Production and emission from an agricultural test field. *Environmental Science & Technology*, 46 (24), 13067-13075.

Schenzel, J., Goss, K.-U., Schwarzenbach, R. P., Bucheli, T. D., & Droge, S. T. J. (2012). Experimentally determined soil organic matter - water sorption coefficients for different classes of natural toxins and comparison with estimated numbers. *Environmental Science & Technology*, 46 (11), 6118-6126.

Schenzel, J., Hungerbühler, K., & Bucheli, T. D. (2012). Mycotoxins in the environment: II. Occurrence and origin in Swiss river waters. *Environmental Science & Technology*, 46 (24), 13076-13084.

Schick, M. (2012). Arbeitswissenschaft. In L. Frerichs (Ed.), *Jahrbuch Agrartechnik 2012*. Braunschweig: Institut für mobile Maschinen und Nutzfahrzeuge, 1-10.

Schjønning, P., Lamandé, M., Keller, T., Pedersen, J., & Stettler, M. (2012). Rules of thumb for minimizing subsoil compaction. *Soil Use and Management*, 28 (3), 378-393.

Schleuning, M., Fründ, J., Klein, A.-M., Abrahamczyk, S., Alarcón, R., Albrecht, M., Andersson, Georg K. S., Bazarian, S., Böhning-Gaese, K., Bommarco, R., Dalsgaard, B., Dehling, D. M., Gotlieb, A., Hagen, M., Hickler, T., Holzschuh, A., Kaiser-Bunbury, Christopher N., Kreft, H., Morris, Rebecca J., Sandel, B., Sutherland, William J., Svenning, J.-C., Tscharrntke, T., Watts, S., Weiner, Christiane N., Werner, M., Williams, Neal M., Winqvist, C., Dormann, Carsten F., & Blüthgen, N. (2012). Specialization of mutualistic interaction networks decreases toward tropical latitudes. *Current Biology* 22, 1-7.

Schneider, S., Widmer, F., Jacot, K., Kölliker, R., & Enkerli, J. (2012). Spatial distribution of *Metarhizium* clade 1 in agricultural landscapes with arable land and different semi-natural habitats. *Applied Soil Ecology*, 52, 20-28.

Schrade, S., Zeyer, K., Gygax, L., Emmenegger, L., Hartung, E., & Keck, M. (2012). Ammonia emissions and emission factors of naturally ventilated dairy housing with solid floors and an outdoor exercise area in Switzerland. *Atmospheric Environment*, 47, 183-194.

Sedlacek, J., Schmid, B., Matthies, D., & Albrecht, M. (2012). Inbreeding depression under drought stress in the rare endemic *Echium wildpretii* (Boraginaceae) on Tenerife, Canary Islands. *PLoS One*, 7 (10), e47415 1-7.

Shelton, A. M., Naranjo, S. E., Romeis, J., & Hellmich, R. L. (2012). Errors logic and statistics plague a meta-analysis (reponse to Andow and Lövei 2012). *Entomological Society of America*, October, 1047-1049.

Sintermann, J., Neftel, A., Ammann, C., Häni, C., Hensen, A., Loubet, B., & Flechard, C. R. (2012). Are ammonia emissions from field-applied slurry substantially over-estimated in European emission inventories? *Biogeosciences*, 9 (5), 1611-1632.

Smith, P., Calanca, P., & Fuhrer, J. (2012). A simple scheme for modeling irrigation water requirements at the regional scale applied to an alpine river catchment. *Water*, 4 (4), 869-886.

Sousa, C. d. S., Menezes, R. S. C., Sampaio, E. V. d. S. B., Oehl, F., Maia, L. C., Garrido, M. d. S., & Lima, F. d. S. (2012). Occurrence of arbuscular mycorrhizal fungi after organic fertilization in maize, cowpea and cotton intercropping systems. *Acta Scientiarum. Agronomy*, 34 (2), 149-156.

Stoeckli, S., Hirschi, M., Spirig, C., Calanca, P., Rotach, M. W., & Samietz, J. (2012). Impact of climate change on voltinism and prospective diapause induction of a global pest insect - *Cydia pomonella* (L.). *PLoS ONE*, 7 (4), e35723.

Suter, M., & Lüscher, A. (2012). Rapid and high seed germination and large soil seed bank of *Senecio aquaticus* in managed grassland. *The Scientific World Journal*, Jan 4., 1-8.

- Szerencsits, E. (2012). Swiss tree lines - a GIS-based approximation. *Landscape Online*, 28, 1-18.
- Thiele-Bruhn, S., Bloem, J., De Vries, F., Kalbitz, K., & Wagg, C. (2012). Linking soil biodiversity and agricultural management. *Current Opinion in Environmental Sustainability*, 4 (5), 523-528.
- Tian, J. C., Collins, H. L., Romeis, J., Naranjo, S. E., Hellmich, R. L., & Shelton, A. M. (2012). Using field-evolved resistance to Cry1F maize in a lepidopteran pest to demonstrate no adverse effects of Cry1F on one of its major predators. *Transgenic Research*, 21 (6), 1303-1310.
- Totelecan, S. G., & Mann, S. (2012). Living on the threshold between cultures and within a multilayered society. *International Journal on Humanistic Ideology*, V (1 Spring-Summer), 15-35.
- Veiga, R. S. L., Howard, K., & Van der Heijden, M. G. A. (2012). No evidence for allelopathic effects of arbuscular mycorrhizal fungi on the non-host plant *Stellaria media*. *Plant and Soil*, 360 (1-2), 319-331.
- Verbruggen, E., Kiers, E. T., Bakelaar, P. N. C., Rölting, W. F. M., & Van der Heijden, M. G. (2012). Provision of contrasting ecosystem services by soil communities from different agricultural fields. *Plant and Soil*, 350 (1-2), 43-55.
- Verbruggen, E., Kuramae, E. E., Hillekens, R., de Hollander, M., Kiers, E. T., Rölting, W. F., Kowalchuk, G. A., & Van der Heijden, M. G. (2012). Testing potential effects of maize expressing the *Bacillus thuringiensis* Cry1Ab endotoxin (Bt maize) on mycorrhizal fungal communities via DNA- and RNA-based pyrosequencing and molecular fingerprinting. *Applied and Environmental Microbiology*, 78 (20), 7384-7392.
- Verbruggen, E., Van der Heijden, M. G., Weedon, J. T., Kowalchuk, G. A., & Rölting, W. F. M. (2012). Community assembly, species richness and nestedness of arbuscular mycorrhizal fungi in agricultural soils. *Molecular Ecology* 21 (10), 2341-2353.
- Verbruggen, E., Van der Heijden, M. G. A., Rillig, M. C., & Kiers, E. T. (2012). Mycorrhizal fungal establishment in agricultural soils: factors determining inoculation success. *New Phytologist*, 1-6.
- Walter, A., Studer, B., & Kölliker, R. (2012). Advanced phenotyping offers opportunities for improved breeding of forage and turf species. *Annals of Botany*, online: February 23, 1-9.
- Wang, Y., Li, Y., Romeis, J., Chen, X., Zhang, J., Chen, H., & Peng, Y. (2012). Consumption of Bt rice pollen expressing Cry2Aa does not cause adverse effects on adult *Chrysoperla sinica* Tjeder (Neuroptera: Chrysopidae). *Biological Control*, 61 (3), 246-251.
- Wild, M., Roesch, A., & Amman, C. (2012). Global dimming and brightening - evidence and agricultural implications. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 7 (003), 1-7.

Winzeler, M., Luginbühl, C., Foetzki, A., & Bigler, F. (2012). Organisation und Kosten einer Protected Site. 5. *Fachtagung zur Grünen Gentechnik: Grüne Gentechnologie: Forschung zwischen Anspruch und Wirklichkeit. Wie weiter nach NFP59 und Moratorium?* ETH Zurich, September 2nd 2011. 91-96.

Zimmermann, M., Leifeld, J., Conen, F., Bird, M., & Meir, P. (2012). Can composition and physical protection of soil organic matter explain soil respiration temperature sensitivity? *Biogeochemistry*, 107 (1), 423-436.