List of Publications

Dr. agr. Kathrin Grahmann

Journal articles (peer reviewed)

Grahmann, K., Rubio, V., Terra, J., Quincke, A. 2020. Long-term observations in contrasting crop-pasture rotations over half a century 1. Statistical analysis of chemical soil properties and implications for soil sampling frequency. Agriculture, Ecosystems and Environment 287, XX.

Grahmann, K., Dittert, K., Verhulst, N., Govaerts, B., Buerkert, A., 2019. ^{15}N Fertilizer recovery in different tillage–straw systems on a Vertisol in north-west Mexico. Soil Use and Management 35, 482–491.

Grahmann, K., Verhulst, N., Dittert, K., Govaerts, B., & Buerkert, A. 2018. High N fertilizer application to irrigated wheat in Northern Mexico for conventionally tilled and permanent raised beds: Effects on N balance and short-term N dynamics. Journal of Plant Nutrition and Soil Science 181, 606-620.

Grahmann, K., Verhulst, N., Mora Palomino, L., Bischoff, W.A., Govaerts, B., Buerkert, A. 2018. Ion exchange resin samplers to estimate nitrate leaching from a furrow irrigated wheat-maize cropping system under different tillage-straw systems. Soil & Tillage Research 175, 91-100.

Grahmann, K., Govaerts, B., Fonteyne, S., Guzman, C., Galaviz Soto, A.P., Buerkert, A., Verhulst, N., 2016. Nitrogen fertilizer placement and timing affects bread wheat (*Triticum aestivum*) quality and yield in an irrigated bed planting system. Nutrient cycling in Agroecosystems 106, 185-199.

Grahmann, K., Verhulst, N., Peña, R. J., Buerkert, A., Vargas-Rojas, L., Govaerts, B., 2014. Durum wheat (*Triticum durum* L.) quality and yield as affected by tillage-straw management and nitrogen fertilization practice under furrow-irrigated conditions. Field Crops Research 164, 166-177.

Grahmann, K., Verhulst, N., Buerkert, A., Ortiz-Monasterio, I., Govaerts, B., 2013. Nitrogen use efficiency and optimization of nitrogen fertilization in conservation agriculture. CAB Reviews 8, No. 053, Online ISSN 1749-8848.

Journal articles (other)

Grahmann, K., Quincke, A., Ciganda, V., 2018. Nitrate-nitrogen losses through leaching in continuous cropping systems and crop-pasture rotation. Technical report in INIA magazine Nr.55, ISSN - 1510 - 9011, in Spanish. http://www.inia.uy/Publicaciones/Documentos%20compartidos/Revista-INIA-55-diciembre-2018.pdf

Verhulst, N., Francois, I.M., **Grahmann, K.,** Cox, R., Govaerts, B., 2014. Nitrogen use efficiency and optimization of nitrogen fertilization in conservation agriculture. ii, 6 p. Mexico, DF (Mexico). CIMMYT.

Conference Proceedings

Grahmann, K., Schwalm, H., Sawchik, J., Quincke, A., 2019. Erosión a largo plazo en agricultura con siembra directa en Uruguay (Engl. Long-term erosion under conservation agriculture in Uruguay). Latin-American Congress of Soil Science, Montevideo, Uruguay; 7-11 October 2019, Oral presentation

Grahmann, K., Quehl, H., Quincke, A., 2019. Método simplificado para determinar longitud y biomasa radicular en condiciones de invernáculo para sorgo (*Sorghum bicolor*) (Engl. Simplified method to determine root length and biomass of Sorghum under greenhouse conditions). Latin-American Congress of Soil Science, Montevideo, Uruguay; 7-11 October 2019, Poster presentation

Grahmann, K., Sawchik, J., Rubio, V., Barro, R., Terra, J., Quincke, A., 2019. 55 years of continuous soil surveys: lessons learned and future considerations for the management of long-term experiments. 6th International Symposium for Farming System Design, Montevideo, Uruguay, 18-21 August 2019, Oral presentation and full paper

Grahmann, K., Quehl, H., Schwalm, H., Quincke, A., Quincke, M., 2019. Breeding progress in Uruguayan wheat cultivars over the last century. 1st International Wheat Congress, Poster presentation, Saskatoon, Canada, 21-26 July.

Grahmann, K., Verhulst, V., Govaerts, B., Dittert, K., Bürkert, A., 2018. Challenges of ^{15}N field studies to measure N fertilizer recovery under irrigated conservation agriculture. In: ISTRO 21th Triennial Conference Proceedings, Paris, France, 24-28 September.

Vizuete Jaramillo, E., **Grahmann, K**., Mora Palomino, L., Encinas Arballo, A., Robles Morúa, A., 2017. Evaluation of Nutrient Availability Using Ion Exchange Resins in a Seasonal Period in the Cuchujaqui River Basin. In: Annual Meeting of the Mexican Geophysical Union, Puerto Vallarta, Mexico, 22-27 October.

Grahmann, K., Vizuete Jaramillo,E., Robles Morúa, A., 2016. Evaluación de disponibilidad de nutrientes en el suelo en la cuenca del Cuchujaqui con cajas acumuladoras de iones. In: Third International Congress in Environmental Engineering, Guaymas, Mexico, 17-18 March.

Grahmann, K., Verhulst, V., Mora Palomino, L., Bischoff, W.A .,Govaerts, B., Bürkert, A., 2015. Ion exchange resins to estimate mineral-nitrogen leaching from an furrow irrigated wheat-maize cropping system under different tillage-straw management in Northern Mexico. In: ISTRO 20th Triennial Conference Proceedings, Nanying, China, 14-18 September.

Grahmann, K., Verhulst, N., Peña, J., Buerkert, A., Govaerts, B., 2012. Effects of Tillage-Residue Management and Dose and Timing of Nitrogen Fertilization on Durum Wheat Yield and Grain Quality in an Irrigated Bed Planting System in Northwestern Mexico. In: ISTRO 19th Triennial Conference Proceedings, Montevideo, Uruguay, 24-28 September.

Ahl, C., **Grahmann, K.,** Ernst, O. 2012. Influence of grazing intensities on soil properties of a no tillage grassland site in western Uruguay. In: ISTRO 19th Triennial Conference Proceedings, Montevideo, Uruguay, 24-28 September.