

Publikationen - Dr. Andreas Pacholski

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Publikationen (peer review)

- Quakernack R., **Pacholski** A., Techow A., Hermann A., Taube F., Kage H. 2011: Ammonia volatilization and yield response of energy crops after fertilization with biogas residues in a coastal marsh of Northern Germany. *Agric. Ecosyst. Environ.*, doi: 10.1016/j.agee.2011.05.030
- Gericke, D., **Pacholski**, A. und Kage, H. (2011): Measurement of ammonia emissions in multi-plot field experiments. *Biosystems Engineering*, 108 (2), 164-173.
- Siemens J., **Pacholski** A., Heiduk K., Giesemann A., Schulte U., Dechow R., Kaupenjohann M., Weigel H.-J. (2011): Elevated air carbon dioxide concentrations increase dissolved carbon leaching from a cropland soil. *Biogeochemistry*, DOI 10.1007/s10533-011-9584-0
- Martin Erbs, Remy Manderscheid, Gisela Jansen, Sylvia Seddig, Andreas **Pacholski** und Hans-Joachim Weigel (2009). Effects of free-air CO₂ enrichment and nitrogen supply on grain quality parameters and elemental composition of wheat and barley grown in a crop rotation. *Agriculture, Ecosystems & Environment* (doi:10.1016/j.agee.2009.11.009)
- Rainer Martens, Katja Heiduk, Andreas **Pacholski**, Hans-Joachim Weigel (2009). Repeated ¹⁴CO₂ pulse-labelling reveals an additional net gain of soil carbon during growth of spring wheat under free air carbon dioxide enrichment (FACE). *Soil Biology&Biochemistry* (doi:10.1016/j.soilbio.2009.08.018)
- Manderscheid, R., **Pacholski**, A., Frühauf, C. und H.-J. Weigel. Effects of free air carbon dioxide enrichment and nitrogen supply on growth and yield of winter barley cultivated in a crop rotation. *Field Crops Research* doi:101016/j.fcr.2008.08.002.
- Pacholski** A., Cai GX, Fan XH, Ding H, Chen DL, Nieder R and M. Roelcke (2008): Comparison of different methods for the measurement of ammonia volatilization after urea application in Henan Province, China, *Journal of Plant Nutrition and Soil Science* 171 (3): 361-369
- Pacholski** A., Cai G.X., Nieder R., Richter J., Zhu Z.L. and Roelcke M. (2006) Calibration of a simple method for determining ammonia volatilization in the field - comparative measurements in Henan Province, China, *Nutrient Cycling in Agroecosystems* (74), 259-273
- Weigel, H. J., **Pacholski**, A., Waloszczyk, K., Fruhauf, C., Manderscheid, R., Anderson, T. H., Heinemeyer, O., Kleikamp, B., Helal, M., Burkart, S., Schrader, S., Sticht, C., Giesemann, A. (2006). "Effects of elevated atmospheric CO₂ concentrations on barley, sugar beet and wheat in a rotation: examples from the Braunschweig carbon project." *Landbauforschung Volkenrode* *56*(3-4): 101-115
- Weigel H.J., Manderscheid R., Burkart S., **Pacholski** A., Heinemeyer O. (2006) Responses of an arable crop rotation system to elevated CO₂. In: Nösberger, J.; Long, S.P.; Norby, R.J.; Stitt, M.; Hendrey, G.R.; Blum, H. (Eds.) *Managed Ecosystems and CO₂* -

Case Studies, Processes, and Perspectives. Series: Ecological Studies 187, 121-137, Springer Verlag.

- Weigel H.J., **Pacholski A.**, Burkart S., Helal M. Heinemeyer O., Kleikamp B., Manderscheid R., Frühauf C., Hendrey G.F., Lewin K. and Nagy J. (2005). Carbon turnover in a crop rotation under free air CO₂ enrichment (FACE), *Pedosphere* 15 (6), 728-738
- Cai G.X., Chen D.L., Ding H., **Pacholski A.**, Fan X.H., Zhu Z.L. (2002) Nitrogen losses from fertilizers applied to maize, wheat and rice in the North China Plain, *Nutrient Cycling -in Agroecosystems* 63 (2-3): 187-195
- Cai G.X., Chen D., White R.E., Fan X.H., **Pacholski A.**, Zhu Z.L., Ding H. (2002) Gaseous nitrogen losses from urea applied to maize on a calcareous fluvo-aquic soil in the North China Plain, *Australian Journal of Soil Research* 40 (5): 737-748

Bücher

- Pacholski, A.** (2009). Wahrheit in Gestalt - Sprachbedingungen der Wissenschaft: Die Ansätze T.S. Kuhns und M. Merleau-Pontys, Tectum Wissenschaftsverlag Marburg, 129 S. (ISBN 978-3-8288-9932-2)

Conference Proceedings (mit review)

- Pacholski, A.**, Roelcke, M. and Cai, G. X. (2007). Modelling ammonia volatilisation following urea fertilisation in a winter wheat-maize rotation in China. - In: Monteny, G. J. and Hartung, E. (eds.), *Ammonia Emissions in Agriculture*. Wageningen Academic Publishers, pp. 207-209.
- Heiduk, K., **Pacholski, A.**, Martens, R., Weigel, H.-J. and Zhu, J. (2007). Comparing responses of carbon dynamics to elevated atmospheric CO₂ concentrations in arable crop rotations in Germany and China. - In: Chabbi, A. (ed.) *International Symposium on Organic Matter Dynamics in Agro-Ecosystems*. - INRA, pp. 42-43

Weitere Publikationen (Auswahl)

- Pacholski, A.**, Gericke, D. and Kage, H. (2007). Modellierung der Ammoniak-Emissionen nach Ausbringung von organischen Wirtschaftsdüngern. - *Mitt. Ges. Pflanzenbauwiss.* 19: 282-283.
- Pacholski, A.**, Gericke, D. and Kage, H. (2007). NH₃-Verluste nach Ausbringung von Garrückständen aus Biogasanlagen. - *Mitt. Dtsch. Bodenkdl. Gesell.* 110: 381-382.
- Weigel H.J., Manderscheid R., **Pacholski A.**, Burkart S. und Jansen G. (2005) Mehr CO₂ in der Atmosphäre: Prima Klima für die Landwirtschaft? Effekte auf Pflanzenwachstum und -qualität, Forschungsreport Verbraucherschutz, Ernährung, Landwirtschaft, ISSN 0931-2277, Deutschland, p. 14-17, 7

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- Pacholski**, Andreas Siegfried (2003). Calibration of a simple method for determining ammonia volatilisation in the field – Experiments in Henan Province, China, and modelling results. PhD-Thesis, Braunschweig Technical University. In: *Landbauforschung Völkenrode – FAL Agricultural Research, Braunschweig, Germany. Special Issue 249*, 172 pp.
- Pacholski, A.**, Cai, G.X., Fan, X.H. and Roelcke, M. (2001). Ammonia volatilization in an alkaline upland soil in Northern China – comparative measurements and modelling results, 11th Nitrogen Workshop, Reims, 09.-12.09.2001, *Book of Abstracts* 173-174
- Richter J., Roelcke M., **Pacholski A.**, Cai Z.C., Han Y. (2000). Die Umwelt und das Stickstoffproblem. In: *Sino-German Center for Science Promotion (Ed.): Begegnungen. Deutsch-Chinesische Zusammenarbeit in der Wissenschaft*, 40-47, (in German and Chinese)
- Pacholski A**, Cai, G.X., Fan, X.H., Roelcke, M. und Richter, J. (1999). Calibration of a simple method for determining ammonia loss in the field – measurements in an alkaline soil in China. 10th Nitrogen Workshop. The Royal Veterinary and Agricultural University, Copenhagen, Denmark, *Abstracts* 2,III.7
- Joschko, M. und **Pacholski A.** (1997). Enchytraeidendichten und organische Bodensubstanz – ein geostatistischer Ansatz, *Mittlgn. Dtsch. Bodenkundl. Gesellsch.* 85(2), 513 – 516
- Pacholski A.**, Joschko, M. and Larink, M. (1996). Spatial patterns of Enchytraeidae and their relation to environmental factors in an arable sandy soil, Brandenburg/Northeast Germany, XII International Colloquium on Soil Zoology, 21 – 26 July 1996, Dublin, Ireland, *Abstracts* p.170