

Peer-reviewed publications PD Dr. Michael Dannenmann

ACCEPTED/PUBLISHED/IN PRESS (ISI journals, sum: 45)

2016:

- Guetlein A, **Dannenmann M**, Kiese R 2016. Gross nitrogen turnover rates of a tropical lower montane forest: impacts of sample preparation and incubation regimes. *Soil Biology & Biochemistry*, in press
- Diaz-Pines E, Molina-Herrera S, **Dannenmann M**, Braun J, Haas E, Willibald G, Arias-Navarro C, Grote R, Wolf B, Saiz G, Aust C, Schnitzler J-P, Butterbach-Bahl K 2016. Soil greenhouse gas (CO₂, CH₄ and N₂O) fluxes, microbial nitrogen turnover and nitrate leaching in a short-rotation coppice poplar plantation in Southern Germany. *Global Change Biology Bioenergy*, in press.
- Gerschlauser F, **Dannenmann M**, Kühnel A, Meier R, Kolar A, Butterbach-Bahl K, Kiese R 2016. Gross Nitrogen Turnover of Natural and Manged Tropical Ecosystems at Mt. Kilimanjaro, Tanzania. *Ecosystems*, accepted for publication
- Wang C, Chen Z, Unteregelsbacher S, Lu H, Gschwendtner S, Kolar A, Kiese R, Schloter M, Butterbach-Bahl K, **Dannenmann M** 2016. Climate change amplifies gross nitrogen turnover in montane grasslands of Central Europe both in summer and winter seasons. *Global Change Biology*, accepted for publication.

2015:

- Chen Z, Wang C, Gschwendtner S, Willibald G, Unteregelsbacher S, Lu H, Kolar A, Schloter M, Butterbach-Bahl K, **Dannenmann M** 2015 The relationships between denitrification gene expression, dissimilatory nitrate reduction to ammonium and nitrous oxide and dinitrogen production in montane grassland soils. *Soil Biology & Biochemistry*, **82**, 67-77.
- Karhu K, **Dannenmann M**, Kitzler B, Díaz-Pinés E, Tejedor J, Ramírez DA, Parra A, Resco de Dios V, Moreno JM, Rubio A, Guimaraes-Povoas L, Zechmeister-Boltenstern S, Butterbach-Bahl K, Ambus P 2015. Fire increases the risk of higher soil N₂O emissions from Mediterranean Macchia ecosystems. *Soil Biology & Biochemistry* **82**, 44-51.
- Leberecht M, **Dannenmann M**, Gschwendtner S, Bilela S, Meier R, Simon J, Rennenberg H, Schloter M, Polle A 2015. Ectomycorrhizal communities on the roots of two beech (*Fagus sylvatica*) populations from contrasting climate differ in nitrogen acquisition in a common environment. *Applied and Environmental Microbiology*, **81**, 5957-5967.
- Liu M, **Dannenmann M**, Lin S, Saiz G, Yan G, Yao Z, Pelster DE, Tao H, Sippel S, Tao Y, Zhang Y, Zheng X, Zuo Q, Butterbach-Bahl K 2015. Ground cover rice production systems increase soil carbon and nitrogen stocks at regional scale. *Biogeosciences* **12**, 4831-4840.
- Gschwendtner, S, Leberecht M, Engel M, Kublike S, **Dannenmann M**, Polle A, Schloter M 2015. Effects of elevated atmospheric CO₂ on microbial community structure at the plant-soil interface of young beech trees (*Fagus sylvatica* L.) grown at two sites with contrasting climatic conditions. *Microbial Ecology*, **69**, 867-878.
- Rennenberg H, **Dannenmann M** 2015. Nitrogen nutrition of trees and temperate forests – the significance of nitrogen availability in pedosphere and atmosphere. *Forests* **6**, 2820-2835. ([Review article](#))
- Wilske B, Eccard JA, Zistl-Schlingmann M, Hohmann M, Methler A, Herde A, Liesenjohann T, **Dannenmann M**, Butterbach-Bahl K, Breuer L 2015. Effects of short term bioturbation by common voles on biogeochemical soil variables. *PLoS ONE*, **10**, e0126011.

2014:

- Bimüller C, **Dannenmann M**, Tejedor J, Von Lützw M, Buegger F, Meier R, Haug S, Schroll R, Kögel-Knabner I 2014: Prolonged summer droughts retard soil N processing and stabilization in organo-mineral fractions. *Soil Biology & Biochemistry* **68**, 241-251.
- Blagodatskaya E, Zheng X, Blagodatsky S, Wiegler R, **Dannenmann M**, Butterbach-Bahl K 2014. Oxygen and substrate availability interactively control the temperature sensitivity of CO₂ and N₂O emission from soil. *Biology and Fertility of Soils*, **50**, 775-783
- Gschwendtner S, Tejedor, J, Bimüller C, **Dannenmann M**, Kögel-Knabner I, Schloter M 2014. Climate change induces shifts in abundance and activity pattern of bacteria and archaea catalyzing major transformation steps in nitrogen turnover in a soil from a Mid-European beech forest. *PLoS One* **9**, e116614. DOI: 10.1371/journal.pone.0116614.
- Wang C, **Dannenmann M**, Meier R, Butterbach-Bahl K 2014: Inhibitory and side effects of acetylene and sodium chlorate on gross nitrification, gross ammonification and soil-atmosphere exchange of N₂O and CH₄ in acidic to neutral montane grassland soil. *European Journal of Soil Biology* **65**, 7-14.
- Werner C, Reiser K, **Dannenmann M**, Hutley LB, Jacobeit J, Butterbach-Bahl K 2014. N₂O, NO, N₂ and CO₂ emissions from tropical savanna and grassland of Northern Australia: an incubation experiment with intact soil cores. *Biogeosciences* **11**(21), 6047–6065.

2013:

- Bimüller C, Naumann PS, Buegger F, **Dannenmann M**, Zeller B, Von Lützw M, Kögel-Knabner I 2013: Rapid transfer of ¹⁵N from labeled beech leaf litter to functional soil organic matter fractions in a Rendzic Leptosol. *Soil Biology & Biochemistry*, **58**, 323-331
- Butterbach-Bahl K, Baggs EM, **Dannenmann M**, Kiese R, Zechmeister-Boltenstern S 2013: Nitrous oxide emissions from soils, how well do we understand the processes and their controls. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **368**, 1621, DOI: 10.1098/rstb.2013.0122. (Review article)
- Guo C, **Dannenmann M**, Gasche R, Zeller B, Papen H, Polle A, Rennenberg H, Simon J 2013. Preferential use of root litter compared to leaf litter by beech seedlings and soil microorganisms. *Plant and Soil* **368**, 519-534. DOI 10.1007/s11104-012-1521-z
- Guo C, Simon J, Gasche R, Naumann PS, Bimüller C, Pena R, Polle A, Kögel-Knabner I, Zeller B, Rennenberg H, **Dannenmann M** 2013: Minor contribution of leaf litter to N nutrition of beech (*Fagus sylvatica*) seedlings in a mountainous beech forest of Southern Germany. *Plant and Soil* **369**, 657-668. DOI 10.1007/s11104-013-1603-6
- Liu M, Lin S, **Dannenmann M**, Tao Y, Saiz G, Zuo Q, Sippel S, Wei J, Cao J, Cai X, Butterbach-Bahl K 2013. Do water-saving ground cover rice production systems increase grain yields at regional scales? *Field Crops Research* **150**, 19-28. <http://dx.doi.org/10.1016/j.fcr.2013.06.005>
- Pena R, Tejedor J, Zeller B, **Dannenmann M**, Polle A 2013: Interspecific temporal and spatial differences for the acquisition of litter-derived nitrogen of ectomycorrhizal fungal assemblages. *New Phytologist*, **199**, 520-528. DOI: 10.1111/nph.12272
- Unteregelsbacher S, Gasche R, Lipp L, Sun W, Kreyling O, Geitlinger H, Kögel-Knabner I, Papen H, Kiese R, Schmid HP, **Dannenmann M** (2013): Increased methane uptake but unchanged nitrous oxide flux in pre-alpine grasslands under simulated climate change conditions. *European Journal of Soil Science*, **5**, 586-596. DOI: 10.1111/ejss.12092

2012:

Wu H, **Dannenmann M**, Wolf B, Han X, Zheng X, Butterbach-Bahl K 2012. Seasonality of soil microbial nitrogen turnover in continental steppe soils of Inner Mongolia. *Ecosphere* **3**(4), Article 34.

2011:

Butterbach-Bahl K, **Dannenmann M** 2011. Denitrification and associated N₂O emissions from agricultural sources in a changing climate. *Current Opinion in Environmental Sustainability*, **3**, 389–395. ([Review article](#))

Dannenmann M, Willibald G, Sippel S, Butterbach-Bahl K 2011. Nitrogen dynamics at undisturbed and burned Mediterranean shrublands of Salento peninsula, Southern Italy. *Plant and Soil*, **343**, 5–15.

Simon J, **Dannenmann M**, Gasche R, Holst J, Mayer H, Papen H, Rennenberg H 2011 Competition for nitrogen between adult European beech and its offspring is reduced by avoidance strategy. *Forest Ecology and Management*, **262**, 105–114.

Wu H, **Dannenmann M**, Fanselow N, Wolf B, Yao ZS, Wu X, Brüggemann N, Zheng X, Han X, Dittert K, Butterbach-Bahl K 2011. Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. *Plant and Soil*, **340**, 127–139.

2010:

Blagodatskaya E, **Dannenmann M**, Gasche R, Butterbach-Bahl K 2010. Fungal-to-bacterial ratio and N₂O emission during rewetting in the forest floor and mineral soil of beech forests of different management practice and microclimate. *Biogeochemistry* **97**, 55–70.

Matejek B, Huber C, **Dannenmann M**, Kohlpaintner M, Gasche R, Papen H 2010. Gross and net nitrification in the organic layer regulate the small-scale pattern of seepage water nitrate concentration below the main rooting zone after a clear cut in a mature Norway spruce stand. *Plant and Soil*, **373**, 224–236.

Matejek B, Huber C, **Dannenmann M**, Kohlpaintner M, Gasche R, Papen H 2010. Microbial N turnover processes within the soil profile of an N-saturated spruce forest and their relation to the small-scale pattern of seepage water nitrate. *Journal of Plant Nutrition and Soil Science* **173**, 224–236.

Pena R, Offermann C, Simon J, Naumann PS, Geßler A, Holst J, **Dannenmann M**, Mayer H, Kögel-Knabner I, Rennenberg H, Polle A 2010. Girdling affects ectomycorrhizal fungal diversity and reveals functional differences of EMF community composition in a beech forest. *Applied and Environmental Microbiology*, **76**, 1831–1841.

Rosenkranz P, **Dannenmann M**, Brüggemann N, Papen H, Berger U, Zumbusch E, Butterbach-Bahl K 2010. Gross rates of ammonification and nitrification at a nitrogen-saturated spruce (*Picea abies* (L.) Karst.) stand in Southern Germany. *European Journal of Soil Science*, **61**, 745–758.

Winkler JB, **Dannenmann M**, Simon J, Pena R, Offermann C, Sternad W, Clemenz C, Naumann PS, Gasche R, Kögel-Knabner I, Gessler A, Rennenberg H, Polle A 2010. Carbon and nitrogen balance in beech roots under competitive pressure of soil-borne microorganisms induced by girdling, drought and glucose application. *Functional Plant Biology* **37**, 879–889.

Wolf B, Zheng X, Brüggemann N, Chen W, **Dannenmann M**, Han X, Sutton MA, Wu H, Yao ZS, Butterbach-Bahl K. 2010. Grazing-induced reduction of natural nitrous oxide release from continental steppe. *Nature* **464**, 881–884.

Wu X, Yao ZS, Brüggemann N, Shen ZY, Wolf B, **Dannenmann M**, Zheng X, Butterbach-Bahl K 2010. Effects of soil moisture and temperature on CO₂ and CH₄ soil-atmosphere exchange of various land use/cover types in a semi-arid grassland in Inner Mongolia, China. *Soil Biology and Biochemistry* **42**, 773-787.

Yao ZS, Wolf B, Chen W, Butterbach-Bahl K, Brüggemann N, Wiesmeier M, **Dannenmann M**, Blank B, Zheng X 2010. Spatial variability of N₂O, CH₄ and CO₂ fluxes in the Xilin River catchment of Inner Mongolia, China - a soil core study. *Plant and Soil* **331**, 341-359.

Yao ZS, Wu X, Wolf B, **Dannenmann M**, Butterbach-Bahl K, Brüggemann N, Chen W, Zheng X 2010. Soil-atmosphere exchange potential of NO and N₂O in different land use types of Inner Mongolia, as affected by soil temperature, soil moisture, freeze-thaw and drying-rewetting events. *Journal of Geophysical Research – Atmospheres*, **115**, D17116, doi:10.1029/2009JD013528.

2009:

Dannenmann M, Simon J, Gasche R, Holst J, Pena R, Naumann PS, Kögel-Knabner I, Knicker H, Mayer H, Schlöter M, Polle A, Rennenberg H, Papen H 2009. Tree girdling provides insight on the role of labile carbon in nitrogen partitioning between soil microorganisms and adult European beech. *Soil Biology & Biochemistry* **41**, 1622-1631.

Rennenberg H, **Dannenmann M**, Gessler A, Kreuzwieser J, Simon J, Papen H 2009. Nitrogen balance in forest soils: nutritional limitation of plants under climate change stresses. *Plant Biology* **11**, 4-23. (Review article)

2008:

Dannenmann M, Butterbach-Bahl K, Gasche R, Willibald S, Papen H 2008. Dinitrogen emissions and the N₂:N₂O emission ratio of a Rendzic Leptosol as influenced by pH and forest thinning. *Soil Biology & Biochemistry* **40**, 2317-2323.

Matejek B, Kohlpaintner M, Gasche R, Huber C, **Dannenmann M**, Papen H 2008. The small-scale pattern of seepage water nitrate concentration in an N saturated spruce forest is regulated by net N mineralization in the organic layer. *Plant and Soil* **310**, 167-179.

2007:

Dannenmann M, Gasche R, Ledebuhr A, Holst T, Mayer H, Papen H 2007. The effect of forest management on trace gas exchange at the pedosphere-atmosphere interface in beech (*Fagus sylvatica* L.) forests stocking on calcareous soils. *European Journal of Forest Research*, **126**, 331-346.

Dannenmann M, Gasche R, Papen H 2007. Nitrogen turnover and N₂O production in the forest floor of beech stands as influenced by forest management. *Journal of Plant Nutrition and Soil Science* **170**, 134-144.

2006:

Dannenmann M, Gasche R, Ledebuhr A, Papen H 2006. Effects of forest management on soil N cycling in beech forests stocking on calcareous soils. *Plant and Soil* **287**, 279-300.

OTHER PUBLICATIONS, BOOK CHAPTERS (PEER REVIEWED), ETC.

2015:

Dannenmann M 2015. Stickstoff-Umsetzungen in Böden terrestrischer Ökosysteme – Nitrogen turnover in soils of terrestrial ecosystems. Habilitationsschrift Fakultät für Umwelt und Natürliche Ressourcen, Albert-Ludwigs-Universität Freiburg im Breisgau.

Liu M, **Dannenmann M**, Lin S, Saiz G, Yan G, Yao Z, Pelster D, Tao H, Sippel S, Tao Y, Zhang Y, Zheng X, Zuo Q, Butterbach-Bahl K 2015. Ground cover rice production system facilitates soil carbon and nitrogen stocks at regional scale. *Biogeosciences Discussions* **12**, 3647-3674.

Kiese R, **Dannenmann M**, Butterbach-Bahl K 2015. Auswirkung des Klimawandels auf die Treibhausgasflüsse von Grünlandböden im Alpen- und Voralpenraum. In: Klima-Report Bayern 2015. Hrsg.: Bayerisches Staatsministerium für Umwelt und Verbraucherschutz, München.

2014:

Butterbach-Bahl K, Díaz-Pines E, **Dannenmann M** 2014. Soil trace gas emissions and Climate Change. In: Global Change and Terrestrial Ecosystems (eds B. Freedman, C. Alves, U.E.C. Confalonieri, M.F. Cotrufo, W.E. Easterling, B.D. Fath, et al.). Springer, Berlin, Heidelberg. doi: 10.1007/SpringerReference_300069 2012-12-14 09:42:24. *Peer-reviewed book chapter*.

2012:

Dannenmann M, Kiese R, Geitlinger H 2012. NIR-Spektrometrie als Werkzeug zur Bestimmung von C- und N-Vorräten in heterogenen Böden. *VDLUFA-Schriftenreihe* Band **68/2012** VDLUFA-Verlag, Darmstadt ISBN 978-3-941273-13-9.

Butterbach-Bahl K, **Dannenmann M** 2012. Soil carbon and nitrogen interactions and biosphere-atmosphere exchange of methane and nitrous oxide. In Lal R, Lorenz K, Hüttl RF, Schneider BU, von Braun J (eds) Recarbonization of the Biosphere – Ecosystems and the global Carbon Cycle. Springer. *Peer-reviewed book chapter*.

2011:

Butterbach-Bahl K, Gundersen P, Ambus P, Augustin J, Beier C, Boeckx P, **Dannenmann M**, Gimeno BS, Kiese R, Kitzler B, Ibrom A, Rees RM, Smith K, Stevens C, Vesala T, Zechmeister-Boltenstern S 2011. Nitrogen turnover processes and effects in terrestrial ecosystems. In: *The European Nitrogen Assessment*. ed. M.A. Sutton, C.M. Howard, J.W. Erisman et al., Cambridge University Press. *Peer-reviewed book chapter*.

2007:

Dannenmann M 2007. Auswirkungen von Bewirtschaftung auf mikrobielle N- und C-Umsetzungen und den Pedosphäre-Atmosphäre- Austausch von CO₂, CH₄ und N₂O in buchendominierten Laubwäldern auf Karbonatstandorten. Dissertation. Wissenschaftliche Berichte FZKA-7303, Forschungszentrum Karlsruhe GmbH, Karlsruhe, Germany.

2001:

Dannenmann M 2001. Vulkanismus und Geologie auf La Réunion. *Arbeitsmaterialien Wirtschaftsgeographie Regensburg* **2**, 113-120, Regensburg, ISSN 1437-6105.

ORAL PRESENTATIONS

- Chen Z, Wang C, Gschwendtner S, Schloter M, Butterbach-Bahl K, **Dannenmann M** 2014. Denitrification nitrogen gas formation and gene expression in alpine grassland soil as affected by climate change conditions. European Geosciences Union General Assembly 2013, Vienna, 10.04.2014. EGU2013-7471. Oral presentation.
- Chen Z, Wang C, Unteregelsbacher S, Lu H, Gschwendtner S, Gasche R, Kolar A, Schloter M, Butterbach-Bahl K, **Dannenmann M** 2016. Climate change amplifies gross nitrogen turnover in montane grasslands of Central Europe both in summer and winter seasons. European Geosciences Union General Assembly 2016, Vienna, 21.04.2016. EGU2016-4505. Oral presentation.
- Dannenmann M** 2007. The Nitro Europe Burning Experiment on Pianosa Island. Nitro Europe Thematic Workshop, Rome November 3, 2007. Oral presentation.
- Dannenmann M** 2010. Effects of Anthropogenic Management on Ecosystem Nitrogen Cycling. Case studies from temperate beech forest and continental steppe of Inner Mongolia. Seminar talk (invited), Polytechnical University of Madrid, December 14, 2010, Madrid, Spain.
- Dannenmann M** 2011. Klimawandel. Vortrag evangelische Erwachsenenbildung Göppingen, 30.11.2011. Pressereaktion: <http://www.swp.de/goeppingen/lokales/goeppingen/Erde-haelt-unseren-Lebensstil-nicht-aus;art5583,1289555>
- Dannenmann M** 2015. Biosphäre-Atmosphäre-Austausch von Methan (CH₄). Habilitationsvortrag Fakultät für Forst- und Umweltwissenschaften, Universität Freiburg, November 2015.
- Dannenmann M**, and the NitroEurope/SECCIA team 2010. Fire effects on soil-atmosphere N₂O and CH₄ fluxes. Oral presentation, Nitro Europe General Assembly 2010, 02.02.2010, Solothurn, Switzerland.
- Dannenmann M**, Bimüller C, Gschwendtner S, Leberecht M, Tejedor J, Bilela S, Gasche R, Hanewinkel M, Baltensweiler A, Kögel-Knabner I, Polle A, Schloter M, Simon J, Rennenberg H 2014. Climate Change impairs nitrogen cycling in European beech forests. Oral presentation held at the international REKLIM conference – “Our climate – our future, regional perspectives on a global challenge. Berlin, Germany, October 8, 2014.
- Dannenmann M**, Butterbach-Bahl 2012. Denitrification and direct/indirect nitrous oxide (N₂O) emissions from agricultural soils in a changing climate. Oral presentation, Eurosoil Conference, Bari, Italy, July 4, 2012.
- Dannenmann M**, Butterbach-Bahl K 2011. Denitrification and associated soil N₂O emissions due to agricultural activities in a changing climate (invited). 6th International Symposium on Non-CO₂ Greenhouse Gases (NCGG6). Amsterdam, the Netherlands, November 4, 2011.
- Dannenmann M**, Butterbach-Bahl K, Ambus P, Castaldi S, Cotrufo S, Kitzler B, Venturi A, Zechmeister-Boltenstern S. The Mediterranean Macchia Burning Experiment. Nitro Europe Workshop, Ghent, February 2008. Oral presentation.
- Dannenmann M**, Butterbach-Bahl K, Ambus P, Castaldi S, Cotrufo S, Kitzler B, Venturi A, Zechmeister-Boltenstern S, Rubio A, Diaz-Pines E. The Mediterranean Macchia Burning Experiment at the Spanish Los Quintos site. Nitro Europe General Assembly, Gothenburg, Jan 26, 2009. Oral presentation.
- Dannenmann M**, Butterbach-Bahl K, Gasche R, Papen H, Schmid, H-P, Unteregelsbacher S, Wolf B. 2013. Biosphere-Atmosphere exchange of trace gases: Long-term measurements at the Höglwald site and climate change effects on alpine grassland. TERENO Advisory Board Meeting, Blankenburg, 26.09.2011.
- Dannenmann M**, Díaz-Pinés E, Parra A, Kitzler B, Tejedor J, Sanchez L, Karhu K, Resco V, Ramirez D, Povoas-Guimaraes L, Rubio A, Ambus P, Zechmeister-Boltenstern S, Vallejo A, Moreno JM, Butterbach-Bahl K (2011): Postfire soil-atmosphere exchange of carbon and nitrogen gases and nitrogen leaching in a Mediterranean shrubland. Oral presentation held at the Nitrogen and Global Change conference 2011 in Edinburgh.
- Dannenmann M**, Kiese R, Butterbach-Bahl K, Tejedor J, Chen Z, Wang C, Willibald G, Wolf B, Haas E, Simon J, Rennenberg H, Kögel-Knabner I, Schloter M, Gschwendtner S, Polle A, Bimüller C, Leberecht M, Wu H, Hanewinkel M, Zheng Z 2015. Nitrogen turnover in soils of terrestrial

ecosystems. Seminar talk (invited), University of Constance, Department Microbial Ecology, Limnology and General Microbiology.

Dannenmann M, Kiese R, Geitlinger H 2012. NIR-Spektrometrie als Werkzeug zur Bestimmung von C- und N-Vorräten in heterogenen Böden. VDLUFA-Kongress 2012, Passau.

Dannenmann M, Liu M, Yao Z, Lin S, Saiz G, Yan G, Pelster D, Tao H, Sippel S, Tao YY, Zhang Y, Zheng X, Zuo Q, Butterbach-Bahl K 2014. Ground cover rice production systems (GCRPS) increase soil carbon and nitrogen stocks and reduce greenhouse gas emissions. Oral presentation held at the Paddy Soil Workshop, Freising, Germany, September 9, 2014.

Dannenmann M, Parra A, Kitzler B, Diaz-Pines E, Karhu K, Ramirez D, Povoas L, Resco V, Tejedor J, Castaldi S, Del Galdo I, Cotrufo F, Sanchez L, Vallejo A, Abiven S, Schmidt M, Ambus P, Zechmeister-Boltenstern S, Rubio A, Moreno JM, Butterbach-Bahl K. Mediterranean Burning Experiment in Quintos de Mora. Nitro Europe Thematic Workshop Fire Effects in Mediterranean Ecosystems, Madrid, 13.12.2010. Oral presentation.

Dannenmann M, Parra A, Kitzler B, Diaz-Pines E, Karhu K, Ramirez D, Povoas L, Resco V, Tejedor J, Castaldi S, Del Galdo I, Cotrufo F, Sanchez L, Vallejo A, Abiven S, Schmidt M, Ambus P, Zechmeister-Boltenstern S, Rubio A, Moreno JM, Butterbach-Bahl K 2010. Mediterranean burning experiments in Quintos des Mora, Spain. Oral presentation, Nitro Europe General Assembly 2010, 02.02.2010, Solothurn, Switzerland.

Dannenmann M, Tejedor J, Gasche R, Gschwendtner S, Leberecht M, Bimüller C, Kögel-Knabner I, Polle A, Schloter M, Rennenberg H, Simon J, Hanewinkel M, Baltensweiler A, Bilela S, 2014. Climate change impairs Nitrogen cycling in European beech forests. REKLIM Conference October 8 2014, Berlin. Oral presentation.

Dannenmann M, Wang C, Chen Z, Butterbach-Bahl K 2012. Linking ecosystem process measurements with biogeochemical modelling. Seminar presentation (**invited**), Helmholtz Zentrum München, 7.11.2012.

Dannenmann M, and the NitroEurope burning team (2009): The NitroEurope Mediterranean Macchia Burning Experiment (Oral presentation). COST 639 (Greenhouse-gas budget of soils under changing climate and land use) Thematic workshop: "Soil carbon in Mediterranean Ecosystems", Florence, Italy, March 2-3, 2009.

Dannenmann M, Simon J, Gasche R, Holst J, Naumann P, Knicker H, Mayer H, Schloter M, Pena R, Polle A, Rennenberg H, Papen H 2010. Tree girdling as a tool to study plant-microbe C- and N-interactions in beech rhizosphere. Oral presentation, European Geosciences Union General Assembly, Vienna, April 2010. EGU2010-12585.

CONFERENCE CONTRIBUTIONS, POSTERS

Ambus P, Zechmeister-Boltenstern, Kitzler B, Butterbach-Bahl K, **Dannenmann M**, Brüggemann N, Cotrufo F, Castaldi S, Vaccari, FP (2007): Effect of burning on soil nitrogen cycling and GHG emissions in a macchia ecosystem. Poster presented at the COST 639 2nd plenary meeting. Soils and greenhouse gas budgets across the different European ecosystems, land use and land use change scenarios. October 29-30, Barcelona, Spain.

Butterbach-Bahl K, Baggs EM, **Dannenmann M**, Kiese R 2014. N cycling in soils and emission of nitrogen gases: how well do we understand the processes and their controls (Vladimir Ivanovich Vernadsky Medal Lecture). European Geosciences Union General Assembly 2014, Vienna, 30.04.2014. EGU2014-11867. Oral presentation.

Butterbach-Bahl K, Gundersen P, **Dannenmann M**, Kiese R 2008. Nitrogen turnover processes and effects in terrestrial ecosystems. Second Workshop of the European Nitrogen Assessment (ENA-2), European Science Foundations (ESF) project: Nitrogen in Europe (NINE), Perthshire, Scotland, GB, June 18-20, 2008. Invited oral presentation.

- Butterbach-Bahl K, Kiese R, **Dannenmann M** 2012. Soil C and N interactions and biosphere-atmosphere exchange of N₂O and CH₄. Oral presentation, Workshop "Recarbonization of the Biosphere", IASS, Potsdam, March 21, 2011.
- Chen Z, Lu H, Wang C, Gschwendtner S, Schloter M, Butterbach-Bahl K, **Dannenmann M** 2015. Climate change modifies the diversity, structure and size of N₂O-producing microbial communities in montane grassland soil. European Geosciences Union General Assembly 2015, Vienna, 17.04.2015. EGU2015-1487. Oral presentation.
- Dannenmann M**, Butterbach-Bahl K, Blagodatskaya E 2015. Temperature sensitivity of organic matter decomposition as regulated by oxygen and substrate availability. European Geosciences Union General Assembly 2015, Vienna, 13.04.2015. EGU2015-15052 Poster presentation.
- Dannenmann M**, Gasche R, Ledebuhr A, Holst T, Mayer H, Papen H 2006. The effect of forest management on trace gas exchange at the pedosphere-atmosphere interface in beech forests stocking on calcareous soils. European Geosciences Union General Assembly 2006, Vienna. Poster presentation.
- Dannenmann M**, Tejedor J, Bilela S, Gasche R, Gschwendtner S, Leberecht M, Bimüller C, Kögel-Knabner I, Polle A, Schloter M, Rennenberg H 2012. Gross nitrogen fluxes in intact beech-soil-microbe systems under simulated climate change. Poster presentation, EUROSOIL conference, Bari, Italy, July 4, 2012.
- Dannenmann M**, Wolf B, Butterbach-Bahl K 2012. A full annual course of gross N turnover as a prerequisite to test and improve the biogeochemical model Landscape DNDC. 2nd International Enzymes in the Environment RCN Workshop – Incorporating Enzymes and Microbial Physiology into Biogeochemical Models. Colorado State University, Fort Collins, Colorado, May 16, 2012.
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