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Образование

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Премии и гранты

- 2012-2015 Грант Федерального Министерства Экономии Германии: Разработка нового автоматизированного метода для быстрого анализа ксенобиотиков в питьевой воде при помощи твердофазной микроэкстракции
- 2010-2013 Грант Федерального Министерства Экономии Германии: Разработка нового метода для быстрого анализа загрязнителей в помещениях при помощи твердофазной микроэкстракции
- 2007-2012 Грант Немецкого Научного Фонда: Структуры и процессы инициальных стадий развития экосистем: Первичные стадии гумусообразования
- 2007-2010 Грант Федерального Министерства Экономии Германии: Разработка нового метода для быстрого симультанного анализа органических загрязнителей воды при помощи твердофазной микроэкстракции
- Jul 2007 Премия: Серебрянная медаль почета Палаты Промышленности и Торговли Котбус, Германия
- 2005-2009 Грант Федерального Министерста Науки и Просвещения Германии: Продолжительный менеджмент смешанных дубово-сосновых лесов в условиях субконтинентального климата северо-восточной низменности Германии (OakChain)
- 2003-2005 Грант Федерального Экологического Фонда Германии: Разработка масс-спектрометрии со сверх-краткими лазерными импульсами для количественного определения тротила и продуктов его разложения в почвах и водах
- 1995-1999 Грант Федерального Министерста Науки и Просвещения Германии: Исследование потока и накопления элементов, круговорота и разложения корней и лесного опада, и микоризного разнообразия в ризосфере сосновых экосистем, получивших высокие дозы соединений азота
- 1993-1995 Грант Федерального Министерста Науки и Просвещения Германии: Научная программа санации атмосферы новых федеральных земель: Круговорот углерода и азота в лесных экосистемах

Опыт и активности

Опыт Soil, Environment, Soil Chemistry, Ecosystems, Nutrient Cycling, Biogeochemistry, Carbon Cycle, Hydrology, Geochemistry, Biological Soil Crusts, Soil Analysis, Soil Biology, Soil Ecology, Soil Science, Infrared

Spectroscopy , Spectrophotometry, Spectroscopy, Atomic Absorption Spectroscopy, Fourier Transform Infrared Spectroscopy, Soil Organic Matter, ¹³C, Carbon Sequestration, Greenhouse Gases, Biogeochemical Cycling, Soil Respiration, Litter Decomposition, Organic Matter, Hydraulics, Decomposition, Soil Fertility, Rainfall, CO₂ Sequestration, Soil Characterization, Kinetic Modeling, ¹⁵N, Groundwater, Remediation, Environmental Impact Assessment, Vegetation, Cyanobacteria, Precipitation, Climate, Green Algae, Crude Oil, Lichens, Algae, Soil Carbon, Clay

Языки Немецкий, английский, русский

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Европейский Союз Геологов

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ОСНОВНЫЕ ПУБЛИКАЦИИ

Разделы в книгах

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ecosystems: A roof experiment without roof, Edited by Reinhard F. Hüttl, Klaus Bellmann, 01/1998; Kluwer., ISBN: 0-7923-5713-2

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Доклады на конференциях

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- Thomas Fischer, Stella Gypser, Maria Subbotina, Maik Veste: *Hydraulic and nutritional feedback controls surface patchiness of biological soil crusts at a post-mining site.* EGU General Assembly 2015, Vienna; 02/2015
- Larysa Mykhailova, Thomas Fischer, Valentina Iurchenko: *Microbial activity and soil organic matter decay in roadside soils polluted with petroleum hydrocarbons..* Geophysical Research Abstracts; 01/2015
- Haijing Wang, Thomas Fischer, Wolfgang Wieprecht, Jinsheng Feng, Detlev Möller: *The Influence of Different Sorption Mechanisms in Crude Oil Volatile Organic Compounds Analysis during Solid Phase Microextraction.* the International Symposium on Advances in Extraction Technologies - ExTech2014, Chania, Crete, Greece; 05/2014
- Thomas Fischer, Aaron Yair, Helmut Geppert, Maik Veste: *Water repellency and infiltration of biological soil crusts on an arid and a temperate dunes.* EGU General Assembly 2014, Vienna; 01/2014

- Thomas Fischer, Maik Veste, Larysa Mykhailova: *Ecological Maturity and Drought Stress of Biological Soil Crusts along a Central European Inland Dune Catena*. EGU General Assembly 2014, Vienna; 01/2014
- M. Sut, T. Fischer, F. Repmann, T. Raab: *Feasibility of field portable near infrared (NIR) spectroscopy to determine cyanide concentrations in soil*. EGU General Assembly 2013; 01/2013
- Valentina Iurchenko, Larysa Mykhailova, Thomas Fischer: *Kinetic Characteristics Of Petrochemicals Transposition And Accumulation In Soils Of Roadside Area*. Transbaltica 2013; 01/2013
- Magdalena Sut, Frank Repmann, Thomas Fischer, Thomas Raab: *Detection and behavior of iron-cyanide complexes in contaminated soil*. 2nd HAI Science Forum, Potsdam; 09/2012
- Roland Spröte, Maik Veste, Thomas Fischer, Thomas Raab, Oliver Bens, Reinhard F Hüttl: *Development of biological soil crusts and their influence on soil hydrology in the recultivation area of lignite open-cast mining district in Lower Lusatia (Germany)*. EGU Meeting 2012, Wien; 04/2012
- T Fischer, M Veste, A Eisele, O Bens, W Spyra, RF Hüttl: *High resolution mapping of Normalized Difference Vegetation Indices (NDVI) of biological soil crusts*. EGU General Assembly Conference Abstracts; 01/2012
- R Spröte, M Veste, T Fischer, T Raab, O Bens, R F Hüttl: *Development of biological soil crusts and their influence on soil hydrology in the recultivation area of lignite open-cast mining district in Lower Lusatia (Germany)*. Geophysical Research Abstract; 01/2012
- T Fischer, A Yair, M Veste: *Infiltration, water holding capacity and growth patterns of biological soil crusts on sand dunes under arid and temperate climates*. EGU General Assembly Conference Abstracts; 01/2012
- Magdalena Sut, Thomas Fischer, Frank Repmann, Thomas Raab: *Field portable near infrared spectroscopy (FP NIR) as a tool for cyanide measurement in soil; investigation of the iron-cyanide complexes behavior in soil*. DBG 2011, Berlin; 12/2011
- Thomas Fischer, Maik Veste: *Small scale spatial heterogeneity of biological soil crusts during initial ecosystem development*. 12th European Ecological Federation Congress. 25-29 September 2011; 01/2011
- Roland Spröte, Thomas Fischer, Maik Veste, Wolfgang Wiehe, Philipp Lange, R.F. Hüttl: *Development of top soil on quaternary inland dunes – How important are microorganisms?*. 35. Hauptversammlung der Deutschen Quartärvereinigung DEUQUA e.V., 12th Annual Conference of the INQUA PeriBaltic Working Group,, Greifswald, Germany; 09/2010
- R Spröte, T Fischer, M Veste, W Wiehe, P Lange, RF Hüttl: *Development of top soil on Quaternary inland dunes - How important are microorganisms?*. 35. Hauptversammlung der Deutschen Quartärvereinigung DEUQUA e.V., 12th Annual Conference of the INQUA PeriBaltic Working Group; 09/2010
- Thomas Fischer, Maik Veste: *Biological soil crusts on inland dunes in NE Germany: Can we link succession with hydrology?*. Biological Soil Crusts in Ecosystems - their Diversity, Ecology, and Management, 22-25. August 2010; 01/2010
- T Fischer, R Spröte, M Veste, W Wiehe, P Lange, O Bens, T Raab, R F Hüttl: *Functions of biological soil crusts on central European inland dunes: Water repellency and pore clogging influence water infiltration*. EGU General Assembly Conference Abstracts; 01/2010

- R Spröte, T Fischer, M Veste, A Yair, W Wiehe, P Lange, O Bens, T Raab, R F Hüttl: *Structures and processes of biological soil crusts during initial ecosystem genesis of an artificial watershed in Lusatia, NE Germany*. EGU General Assembly Conference Abstracts; 01/2010
- R Spröte, T Fischer, M Veste, P Lange, O Bens, T Raab, R F Hüttl: *Hydrophobicity in sandy soils triggered by the development of Scots Pine stands in southern Brandenburg, Germany*. EGU General Assembly 2010, held 2-7 May, 2010 in Vienna, Austria, p. 4154; 01/2010
- Roland Spröte, Maik Veste, Thomas Fischer, Philipp Lange, Oliver Bens, Thomas Raab: *Development of biological soil crusts in initial ecosystems*. Tagung der Deutschen Bodenkundlichen Gesellschaft (DBG), Bonn; 09/2009
- T Fischer, M Veste, W Wiehe, P Lange: *How biological crusts are stabilizing the soil surface? The development of organo-mineral interactions in the initial phase*. EGU General Assembly Conference Abstracts; 01/2009
- T. Fischer, B.-U. Schneider, K. Baumann, R.F. Hüttl: *Spatial Distribution of Black pine (Pinus nigra L.) roots and its relationship to chemical properties of bulk and rhizosphere soil equilibrium solution*. Woody root processes – Revealing the hidden half, 04-08 Feb 2006; 01/2006
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- T. Fischer, A.J.K. Steiner, U. Krakau, B.-U. Schneider, R.F. Hüttl: *Influence of nitrogen deposition on root mineralization and turnover in two Scots Pine (Pinus sylvestris L.) stands in Northeastern Germany*. Woody root processes under a changing environment; 01/2004