

List of Publications Zhao Peng

(September 2014)

Peer-Reviewed

Zhao, P; Lüers, J: Improved determination of daytime net ecosystem exchange of carbon dioxide at croplands, Biogeosciences Discussions, 9, 2883-2919 (2012), doi:doi:10.5194/bgd-9-2883-2012. [\[DOI\]](#) .

Zhang, X; Wang, Y; Zhang, X; Guo, W; Niu, T; Gong, S; Yin, Y; **Zhao, P;** Jin, J; Yu, M: Aerosol monitoring at multiple locations in China: contributions of EC and dust to aerosol light absorption, Tellus B, 60, 647 - 656 (2008), doi:10.1111/j.1600-0889.2008.00359.x. [\[DOI\]](#)

Zhao, P; Zhu, T; Liang, B; Hu, M; Kang, L; Gong, J: Characteristics of mass distributions of aerosol particle and its inorganic water-soluble ions in summer over a suburb farmland in Beijing, Environmental Science, 27, 193 - 199 (2006). [\[DOI\]](#). English translation was published in Frontiers of Environmental Science & Engineering in China, 1(2), 159 - 165 (2007).

Work reports

Zhao, P.; Lüers, J.; Foken, T.: GaFiR: a gap-filling package for ecosystem-atmosphere carbon dioxide flux and evapotranspiration data, Arbeitsergebnisse 59, Universität Bayreuth, Abt. Mikrometeorologie (ISSN 1614-8916), 19 pp (2014). [\[Link\]](#).

Lüers, J.; Detsch, F.; **Zhao, P.:** Application of a multi-step error filter for post-processing atmospheric flux and meteorological basic data, Arbeitsergebnisse 58, Universität Bayreuth, Abt. Mikrometeorologie (ISSN 1614-8916), 22 pp (2014), in print.

Babel, W.; Schaller, C.; Eigenmann, R. ; Foken, T.; Hübner, J.; Jentsch, A.; Kreyling, J.; Sultana, F.; **Zhao, P.:** Documentation of the EVENT-HMMS Experiment 2012 " Microclimatological effects of rain-out shelters within EVENT II, Arbeitsergebnisse 55, Universität Bayreuth, Abt. Mikrometeorologie (ISSN 1614-8916), 43 pp (2013). [\[Link\]](#).

Zhao, P; Lüers, J; Olesch, J; Foken, T: Complex TERRain and ECOlogical Heterogeneity (TERRECO);WP 1-02: Spatial assessment of atmosphere-ecosystem exchanges via micrometeorological measurements, footprint modeling and mesoscale simulations; Documentation of the Observation Period May 12th to Nov. 8th, 2010, Haean, South Korea, Arbeitsergebnisse 45, Universität Bayreuth, Abt. Mikrometeorologie (ISSN 1614-8916), 43 pp (2011). [\[Link\]](#).

Non-referred

Zhao, P., Lüers, J., Kim, J. C., Seo, B., Lindner, S., Tenhunen, J., Foken, T.. Energy and Net Ecosystem CO₂ Exchange between Agro-ecosystems and the Atmosphere over a Complex Terrain in Korea. [TERRECO 2011 Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-10-02 – 2011-10-07.

Lindner, S., Lee, B., Kettering, J., **Zhao, P.**, Seo, B., Otieno, D. O., Walther, G., Tenhunen, J. Estimation of Carbon Balance Components for an Agricultural Landscape in South Korea. [TERRECO 2011 Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-10-02 – 2011-10-07.

Lee, C. B., Belorid, M., Lüers, J., **Zhao, P.**. Analysis of Heat Budget for Nocturnal Temperature Inversion in Haean Basin. [TERRECO 2011 Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-10-02 – 2011-10-07.

Kim, J. C., Lee, C. B., Belorid, M., **Zhao, P.**. A Study of Sensitivity of WRF Simulation to Microphysics Parameterizations, Slope Option and Analysis Nudging in Haean Basin, South Korea. [TERRECO 2011 Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-10-02 – 2011-10-07.

National meteorological standards

QX/T 173-2012: Monitoring method of PM₁₀/PM_{2.5}/PM₁ with GRIMM 180. [\[Link\]](#)

QX/T 174-2012: Site selection for atmospheric composition monitoring stations. [\[Link\]](#)

Presentations

Posters

Zhao, P.; Lüers, J: Dynamics of CO₂ exchange of irrigated and non- irrigated crops in Haean Catchment, South Korea. [Review of TERRECO Phase II](#), Bayreuth, Germany: 2013-01-17.

Tenhunen, J; Gebauer, G; Huwe, B; Kim, B; Kiese, R; Kiese, R; Lüers, J; Reineking, B; werner, c; Ali, HE; Berger, S; Domeignoz, L; Eum, J; Kettering, J; Kim, Y; Kwon, H; Lee, B; Lindner, S; Maharjan, G; Htoon, BN; Park, JY; Ruidisch, M; Xue, W; **Zhao, P.**: Agriculture and Land Surface Functions in the Soyang Lake Watershed. [Review of TERRECO Phase II](#), Bayreuth, Germany: 2013-01-17.

Lindner, S; Lee, B; **Zhao, P.**; Kettering, J; Kwon, H; Otieno, DO; Tenhunen, J: Variation in carbon dioxide gas exchange and productivity of the major crops of the Haean Catchment, South Korea. [Review of TERRECO Phase II](#), Bayreuth, Germany: 2013-01-17.

Kwon, H; Lindner, S; **Zhao, P.**; Lee, B; Otieno, DO; Tenhunen, J: Biological fingerprint for landscape ecosystem respiration with agricultural management of the Haean Catchment, Korea. [Review of TERRECO Phase II](#), Bayreuth, Germany: 2013-01-17.

Zhao, P.; Lüers, J: Gap-filling strategy for daytime net ecosystem exchange of carbon dioxide at a fast-growing cropland in South Korea. [3rd iLEAPS Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-09-18 – 2011-09-23.

Zhao, P; Lüers, J; Lee, CB; Tenhunen, J; Foken, T: Energy and matter exchange in an atmosphere-ecosystem over a complex terrain in Korea. [EGU General Assembly 2011](#), Vienna: 2011-04-03 - 2011-04-08.

Zhao, P; Lüers, J; Foken, T; Tenhunen, JD: Spatial assessment of atmosphere-ecosystem exchanges via micrometeorological measurements and footprint modelling. [EGU General Assembly 2010](#), Vienna: 2010-05-02 - 2010-05-07.

Oral presentations

Zhao, P; Lüers, J: Energy and CO₂ exchange between agro-ecosystems and the atmosphere over a complex terrain in Korea. [TERRECO 2011 Science Conference](#), Garmisch-Partenkirchen, Germany: 2011-10-02 – 2011-10-07.

Zhao, P; Lüers, J; Foken, T; Tenhunen, J: Spatial assessment of atmosphere-ecosystem exchanges via micrometeorological measurements and footprint modelling: Preliminary results of eddy covariance measurement. [East Asian Federation of Ecological Societies \(EAFES\) 4th International Congress](#), Sangju, South Korea: 2010-09-13 – 2010-09-17.

Zhao, P; Lüers, J; Foken, T; Tenhunen, J: Spatial assessment of atmosphere-ecosystem exchanges via micrometeorological measurements and footprint modeling: Atmospheric turbulent energy flux measurements. [TERRECO 2010 Science Review and Planning Workshop](#), Bayreuth, Germany: 2010-04-11 – 2010-04-14.