

# List of CERN Selected Scientific Papers in English



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## 01 The CERN Synthesis Center

0101. Yu Guirui, Wang Qiufeng, Zhuang Jie (2004) Modeling the water use efficiency of soybean and maize plants under environmental stresses: application of a synthetic model of photosynthesis-transpiration based on stomatal behavior. *J Plant Physiol*, **161**, 303-318.
0102. Yu Guirui, Wen Xuefa, Sun Xiaomin, Tanner Bertrand D, Lee Xuhui, Chen Jiayi (2006) Overview of ChinaFlux and evaluation of its eddy covariance measurement. *Agricultural and Forest Meteorology*, **137**, 125-137.
0103. Mo Xingguo, Liu Suxia, Lin Zhounghui, Xu Yueqing, Xiang Yueqin, T Mcvicar (2005) Simulation of winter wheat production and water use efficiency with GIS and RS data in the North China Plain. *Ecological Modelling*, **183**, 301-332.
0104. Wang Jing, Yu Qiang, Li Jun, Li Longhui, Li Xiangle, Yu Guirui, Sun Xianmin (2006) Simulation of diurnal variation of CO<sub>2</sub>, water and heat fluxes over winter wheat with a model coupled photosynthesis and transpiration. *Agricultural and Forest Meteorology*, **137**, 194-219.
0105. Xiao W, Flerchinger G N, Yu Q, Zheng Ye (2006) Evaluation of the SHAW model in simulating the components of net all-wave radiation. *American Society of Agricultural and Biological Engineers*, 49(5), 1351-1360.

## 02 The Water Sub-Center

0201. Zhang Renhua, Sun Xiaomin, Zhu Zhilin, Su Hongbo, Chen Gang (1999) A remote sensing model of CO<sub>2</sub> flux for wheat and studying of regional distribution. *Science in China (Series D)*, 42(3), 325-337.
0202. Zhang R H, Li Z L, Tang X Z, Sun X M, Su H B, Zhu C, Zhu Z L (2004) Study of emissivity scaling and relativity of homogeneity of surface temperature. *Int. J. Remote Sensing*, **25(1)**, 245-259.
0203. Sun Xiaomin, Zhu Zhilin, Wen Xuefa, Yuan Guofu, Yu Guirui (2006) The impact of averaging period on eddy fluxes observed at ChinaFLUX sites. *Agricultural and Forest Meteorology*, **137**, 188-193.
0204. Zhang Renhua, Sun Xiaomin, Zhu Zhilin, Su Hongbo, Tang Xinzhai (2003) A remote sensing model for monitoring soil evaporation based on differential thermal inertia and its validation. *Science in China (Series D)*, **46(4)**, 342-356.
0205. Zhu Zhilin, Sun Xiaomin, Zhang Renhua, Su Hongbo, Tang Xinzai (2002) A note on alternatively direct measurement of the transfer resistance over vegetation. *American Meteorological Society*, 19,

1886-1890.

### **03 The Soil Sub-Center**

0301. Pan Xianzhang, Zhao Qiguo (2007) Measurement of urbanization process and the paddy soil loss in Yixing city, China between 1949 and 2000. *Catena*, **69**, 65-73.
0302. Li Z P, Han F X, Su Y, Zhang T L, Sun B (2007) Assessment of soil organic and carbonate carbon storage in China. *Geoderma*, **138**, 119-126.
0303. Sun Bo, Zhou Shenglu, Zhao Qiguo (2003) Evaluation of spatial and temporal changes of soil quality based on geostatistical analysis in the hill region of subtropical China. *Geoderma*, **115**, 85-99.
0304. Zhang Shirong, Sun Bo, Zhao Qiguo, Xiao Pengfei, Shu Jianying (2004) Temporal-spatial variability of soil organic carbon stocks in a rehabilitating ecosystem. *Pedosphere*, **14(4)**, 501-508.
0305. Shen Runping, Sun Bo, Zhao Qiguo (2005) Spatial and temporal variability of N, P and K balances for agroecosystems in China. *Pedosphere*, **15(3)**, 347-355.

### **04 The Atmosphere sub-center**

0401. Xin Jinyuan, Wang Yuesi, Li Zhanqing, Wang Pucui, Hao Weimin, Nordgren Bryce L, Wang Shigong, Liu Guangren, Wang Lili, Wen Tianxue, Sun Yang, Hu Bo (2007) Aerosol optical depth (AOD) and angstrom exponent of aerosols observed by the Chinese Sun Hazemeter network from August 2004 to September 2005. *Journal of Geophysical Research*, **112**.
0402. Huang Yao (2004) Modeling methane emission from rice paddies with various agricultural practices. *Journal of Geophysical Research*, **109**.
0403. Wang Yuesi, Wang Yinghong (2003) Quick measurement of CH<sub>4</sub>, CO<sub>2</sub>, and N<sub>2</sub>O emissions from a short-plant Ecosystem. *Advances in Atmospheric Sciences*, **20(5)**, 842-844.
0404. Hu Bo, Wang Yuesi, Liu Guangren (2007) Ultraviolet radiation spatio-temporal characteristics derived from the ground-based measurements taken in China. *Atmospheric Environment*.
0405. Zheng Xunhua, Han Shenghui, Huang Yao, Wang Yuesi, Wang Mingxing (2004) Re-quantifying the emission factors based on field measurements and estimating the direct N<sub>2</sub>O emission from Chinese croplands. *Global Biogeochemical Cycles*, **18**.

## 05 The Biological Sub-Center

0501. Zhou Zhiyong, Osbert Sun, Huang Jianhui, Li Linghao, Liu Ping, Han Xingguo (2007) Soil carbon and nitrogen stores and storage potential as affected by land use and in an agro-pastoral ecotone of northern China. *Biogeochemistry*, **82**,127-138.
0502. Wu Dongxiu, Wang Genxuan, Bai Yongfei, Liao Jianxiong, Ren Hongxu (2004) Effects of elevated CO<sub>2</sub> concentration on growth, water use, yield and grain quality of wheat under two soil water levels. *Agriculture, Ecosystems and Environment*, **104**, 493-507.
0503. He Weiming, Zhang Xinshi (2003) Responses of an evergreen shrub *Sabina vulgaris* to soil water and nutrient shortages in the semi-arid Mu Us Sandland in China. *Journal of Arid Environments*, **53(3)**, 307-316.
0504. He Weiming, Dong Ming (2003) Physiological acclimation and growth response to partial shading in *Salix matsudana* in the Mu Us Sandland in China. *Trees*, **17(1)**, 87-93.
0505. Yang Jingcheng, Huang Jianhui, Pan Qingming, Tang Jianwei, Han Xingguo (2004) Long-term impacts of land-use change on dynamics of tropical soil carbon and nitrogen. *Journal of Environmental Science*, **16**, 256-261.

## 06 The Aquatic Ecosystem Sub-Center

0601. Cai Qinghua, Chen Yiyu, Lorenz King (2000) Why watershed ecology? A new approach for research and protection of aquatic ecosystems. In: *Flood Risks and Land Use Conflicts in the Yangtze Catchment, China and at the Rhine River, Germany*. 21-42.
0602. Jiang Mingxi, Deng Hongbing, Cai Qinghua, Wu Gang (2005) Species richness in a riparian plant community along the banks of the Xiangxi River, the Three Gorges region. *International Journal of Sustainable Development and World Ecology*, **12**, 60-67.
0603. Tang Tao, Cai Qinghua, Liu Jiankang (2006) Using epilithic diatom communities to assess ecological condition of Xiangxi River system. *Environmental Monitoring and Assessment*, 47-361.
0604. Ye Lin, Xu Yaoyang, Han Xingqing, Cai Qinghua (2006) Daily dynamics of nutrients and chlorophyll a during a spring phytoplankton bloom in Xiangxi Bay of the Three Gorges reservoir. *Journal of Freshwater Ecology*, **21(21)**, 315-321.
0605. Zhao Bin, Cai Qinghua (2004) Geostatistical analysis of chlorophyll a in freshwater ecosystems. *Journal of Freshwater Ecology*, **19(4)**, 613-621.

## **07 HLA-Hailun Experimental Station of Agricultural Ecology**

0701. Han Xiaozeng, Wang Shouyu, Veneman Peter L M (2006) Change of organic carbon content and its fractions in black soil under long-term application of chemical fertilizers and recycled organic manure. *Communications in Soil Science and Plant Analysis*, **37**, 1127-1137.
0702. Han X Z, Tang C, Song C Y, Qiao Y F (2005) Phosphorus characteristics correlate with soil fertility of Albic Luvisols. *Plant and Soil*, 47-56.
0703. Song C, Han X Z, Tang C (2007) Changes in phosphorus fractions, sorption and release in Udic Mollisols under different ecosystems. *Biol Fertil Soil*.
0704. Han Xiaozeng, Song Chunyu, Wang Shouyu, Tang C (2005) Impact of long-term fertilization on phosphorus status in black soil. *Pedosphere*, **15(3)**.
0705. Zhang X Y, Cruse R M, Sui Y Y, Jhao Z (2006) Soil compaction induced by small tractor traffic in Northeast China. *Soil Science Society of America Journal*, 613-619.

## **08 SYA-Shenyang Experimental Station of Ecology**

0801. Kong Chuihua, Wangpeng, Xu Xiaohua (2007) Allelopathic interference of *Ambrosia trifida* with wheat (*Triticum aestivum*). *Agriculture, Ecosystems and Environment*, **119**, 416-420.
0802. Liang Wenju, Li Qi, Jiang Yong, Neher Deborah A (2005) Nematode faunal analysis in an aquatic brown soil fertilized with slow-release urea. *Northeast China. Applied Soil Ecology*, **29**, 185-192.
0803. Yu K W, Chen G X, Xu H (2006) Rice yield reduction by chamber enclosure: a possible effect on enhancing methane production. *Biol Fertil Soils*, **43**, 257-261.
0804. Wei Shuhe, Zhou Qixing, Koval Pavel V (2006) Flowering stage characteristics of cadmium hyperaccumulator *Solanum nigrum* L and their significance to phytoremediation. *Science of the Total Environment*, **369**, 441-446.
0805. Wei Shuhe, Zhou Qixing, Wang Xin (2005) Identification of weed plants excluding the uptake of heavy metals. *Environment International*, **31**, 829-834.

## **09 YCA-Yucheng Comprehensive Experimental Station**

0901. Luo Yi, Lei Zhidong, Zheng Li, Yang Shixiu, Ouyang Zhu, Zhao Qianjun (2007) A stochastic model of soil water regime in the crop root zone.

- Journal of Hydrology*, **335**, 89-97.
0902. Luo Y, Ouyang Z, Yuan G, Tang D, Xie X (2003) Evaluation of macroscopic root water uptake models using Lysimeter Data. *American Society of Agricultural Engineers*, **46(3)**, 625-634.
0903. Sun Zhigang, Wang Qinxue, Ouyang Zhu, Watanab Masataka, Matsushita1 Bunkei, Fukushima Takehiko (2007) Evaluation of MOD16 algorithm using MODIS and ground observational data in winter wheat field in North China Plain. *Hydrological Processes*, **21**, 1196-1206.
0904. Dong Yuhong, Ouyang Zhu, Liu Shi (2005) Nitrogen transformation in maize soil after application of different organicmanures. *Journal of Environmental Sciences*, **17(2)**, 340-343.
0905. Yu Q, Saseendran S A, Ma L, Flerchinger G N, Green T R, Ahuja L R (2006) Modeling a wheat–maize double cropping system in China using two plant growth modules in RZWQM. *Agricultural Systems*, **89**, 457-477.

## **10 FQA-Fengqiu Experimental Station of Agricultural Ecology**

1001. Chu Haiyan, Fujii Takeshi, Morimoto Sho, Lin Xiangui, Yagi Kazuyuki, Hu Junli, Zhang Jiabao (2007) Community structure of ammonia-oxidizing bacteria under long-term application of mineral fertilizer and organic manure in a sandy loam soil. *Applied and Environmental Microbiology*, 485-491.
1002. Zhu Anning, Zhang Jiabao, Zhao Bingzi, Cheng Zhuhua, Li Liping (2005) Water balance and nitrate leaching losses under intensive crop productionwith Ochric Aquic Cambosols in North China Plain. *Environment International*, **31**, 904-912.
1003. Ding Weixin, Meng Lei, Yin Yunfeng, Cai Zucong, Zheng Xunhua (2007) CO<sub>2</sub> emission in an intensively cultivated loam as affected by long-term application of organic manure and nitrogen fertilizer. *Soil Biology and Biochemistry*, **39**, 669-679.
1004. Dinga Weixin, Caia Yan, Caia Zucong, Zheng Xunhua (2006) Diel pattern of soil respiration in N-amended soil under maize cultivation. *Atmospheric Environment*, **40**, 3294-3305.
1005. Ding Weixin, Cai Yan, Cai Zucong, Yagi Kazuyuki, Zheng Xunhua (2007) Nitrous oxide emissions from an intensively cultivated maize–wheat rotation soil in the North China Plain. *Science of the Total Environment*, **373**, 501-511.

## **11 LCA-Luancheng Agro-ecosystem Experimental Station**

1101. Hu Chunsheng, Saseendram S A, Green T R, Ma L, Li X, Ahuja L R



- (2006) Evaluating nitrogen and water management in a double-cropping system using RZWQM. *Vadose Zone Journal*, **5**, 493-505.
1102. Zhang X Y, Chen S Y, Liu M Y, Pei D, Sun H Y (2005) Improved water use efficiency associated with cultivars and agronomic management in the North China Plain. *Agronomy journal*, 783-790.
1103. Yang Yonghui, Watanabe Masataka, Zhang Xiyang, Hao Xiaohua, Zhang Jiqun (2006) Estimation of groundwater use by crop production simulated by DSSAT-wheat and DSSAT-maize models in the piedmont region of the North China Plain. *Hydrological Processes*, **20**, 2787-2802.
1104. Liu C M, Zhang X Y, Zhang Y Q (2002) Determination of daily evaporation and evapotranspiration of winter wheat and maize by large-scale weighing lysimeter and micro-lysimeter. *Agricultural and Forest Meteorology*, **111**, 109-120.
1105. Li Xiaoxin, Hu Chunsheng, Delgado Jorge A, Zhang Yuming. (2007) Increased nitrogen use efficiencies as a key mitigation alternative to reduce nitrate leaching in north china plain. *Agricultural Water Management*, **89**, 137-147.

## **12 CSA-Changshu Agroecological Experiment Station**

1201. Wang D J, Liu Q, Lin J H, Sun R J (2004) Optimum nitrogen use and reduced nitrogen loss for production of rice and wheat in the Yangtze Delta region. *Environmental Geochemistry and Health*, **26**, 221-227.
1202. Yan Dezhi, Wang Dejian, Sun Ruijuan, Lin Jinghui (2006) N mineralization as affected by long-term N fertilization and its relationship with crop N uptake. *Pedosphere*, **16(1)**, 125-130.
1203. Shan Yanhong, Yang Linzhang, Yan Tingmei, Wang Jianguo (2005) Downward movement of phosphorus in paddy soil installed in large-scale monolith lysimeters. *Agriculture, Ecosystems and Environment*, **111**, 270-278.
1204. Liu Q, Wang D J, Jiang X J, Cao Z H (2004) Effects of the interactions between selenium and phosphorus on the growth and selenium accumulation in rice (*Oryza Sativa*). *Environmental Geochemistry and Health*, **26**, 325-330.
1205. Meia Lijuan, Yang Linzhang, Wang Dejian, Yin Bin, Hu Jian, Yin Shixue (2004) Nitrous oxide production and consumption in serially diluted soil suspensions as related to in situ N<sub>2</sub>O emission in submerged soils. *Soil Biology and Biochemistry*, **36**, 1057-1066.

## **13 TYA-Taoyuan Station of Agricultural Ecosystem Research**

1301. Wu Jinshui, Huang Min, Xiao Heai, Su Yirong, Tong Chengli, Huang

- Daoyou, Syers J Keith (2007) Dynamics in microbial immobilization and transformations of phosphorus in highly weathered subtropical soil following organic amendments. *Plant Soil*, **290**, 333-342.
1302. Wang Kairong, Lv Huanzhe, Wang Kaifeng, Buresh Roland J. Residue management for improving soil fertility and sustainable crop productivity in China.
1303. Wua J, Brookesb P C (2005) The proportional mineralisation of microbial biomass and organic matter caused by air-drying and rewetting of a grassland soil. *Soil Biology and Biochemistry*, **37**, 507-515.

#### **14 YTA-Yingtang Ecological Experimental Station of Red Soil**

1401. Zhang Bin, Yang Yansheng, Zepp H (2004) Effect of vegetation restoration on soil and water erosion and nutrient losses of a severely eroded clayey Plinthudult in southeastern China. *Catena*, **57**, 77-90.
1402. Zhang B, Peng X, H, Z Q G, Halle P D (2004) Eluviation of dissolved organic carbon under wetting and drying and its influence on water infiltration in degraded soils restored with vegetation. *European Journal of Soil Science*, **55**, 725-737.
1403. Wang Xingxiang, Li Qingman, Hu Huafeng, Zhang Taolin, Zhou Yiyong (2005) Dissolution of kaolinite induced by citric, oxalic, and malic acids. *Journal of Colloid and Interface Science*, **290**, 481-488.
1404. Peng X, Zhang B, Zhao Q, Horn R, Hallett P D (2003) Influence of types of restorative vegetation on the wetting properties of aggregates in a severely degraded clayey Ultisol in subtropical China. *Geoderma*, **115**, 313-324.
1405. Zhang Bin, Horn Rainer, Hallett Paul D (2005) Mechanical resilience of degraded soil amended with organic matter. *Soil Science Society of America Journal*.

#### **15 QYA-Qianyanzhou Experiment Station for Comprehensive Development of Natural Resources in Red Earth Hilly Area**

1501. Wang Shaoqiang, Liu Jiyuan, Yu Guirui, Pan Yuanyuan, Chen Qingmei, Li Kerang, Li Jiayong (2004) Effects of land use change on the storage of soil organic carbon: a case study of the Qianyanzhou forest experimental station in China. *Climatic Change*, **67**, 247-255.
1502. Liu Yunfen, Song Xia, Yu Guirui, Sun Xiaomin, Wen Xuefa, Chen Yongrui (2005) Seasonal variation of CO<sub>2</sub> flux and its environmental factors in evergreen coniferous plantation. *Science in China Ser D Earth Sciences*, **48**, 123-132.

1503. Wen Xuefa, Yu Guirui, Sun Xiaomin, Liu Yunfen (2005) Turbulence flux measurement above the overstory of a subtropical *Pinus* plantation over the hilly region in southeastern China. *Science in China Ser D Earth Sciences*, **48**, 63-73.
1504. Song, X, Yu Guirui, Liu Yunfen, Sun Xiaomin, Ren Chuanyou. (2005) Comparison of flux measurement by open-path and close path eddy covariance systems. *Science in China Ser. D Earth Sciences*, **48 (Supp. I)**, 74-84.

## **16 YGA-Yanting Agro-ecological Experimental Station of Purple Soil**

1601. Zhang Xinbao, Wen Anban (2004) Current changes of sediment yields in the upper Yangtze River and its two biggest tributaries, China. *Global and Planetary Change*, **41**, 221-227.
1602. Zhang Jianhui, Quine Timothy A, Ni Shijun, Ge Fanglong (2006) Stocks and dynamics of SOC in relation to soil redistribution by water and tillage erosion. *Global Change Biology*, **12**, 1834-1841.
1603. Liu Gangcai, Gao Meirong, Zhu Bo (2000) The characteristics of overland flow under varied tillage and cropping systems in Sichuan Basin, China. *Soil and Tillage Research*, **54**, 139-143.

## **17 ASA-Ansai Research Station of Soil and Water Conservation**

1701. Liu Guobin, Xu Mingxiang, Ritsema Coen (2003) A study of soil surface characteristics in a small watershed in the hilly, gullied area on the Chinese Loess Plateau. *Catena*, **54**, 31-44.
1702. Liang Y L, Zhang C E, Guo D W (2002) Mulch types and its benefit in cropland ecosystem on Loess Plateau. *Journal of Plant Nutrition*, **25(5)**, 945-955.
1703. Liang Zongsuo, Yan Jianwei, Shao Hongbao, Han Ruilian (2006) Investigation on water consumption characteristics and water use efficiency of poplar under water deficits on the Loess Plateau. *Colloids and Surfaces Biointerfaces*, **53**, 23-28.
1704. Xu Mingxiang, Zhao Yunge, Liu Guobin, Wilson G V (2006) Identification of soil quality factors and indicators for the loess plateau of China. *Soil Science*, **171(5)**, 400-413.

## 18 CWA-Chang Wu Experimental Station of Agricultural Ecology

1801. Dang Tinghui, Cai Guixin, Guo Shengli, Hao Mingde, Heng L K (2006) Effect of nitrogen management on yield and water use efficiency of rainfed wheat and maize in Northwest China. *Pedosphere*, **16(4)**, 495-504.
1802. Hao Mingde, Fan Jun, Wei Pong, Pen Linfa, Lai Lu (2005) Effect of fertilization on soil fertility and wheat yield of dryland in the Loess Plateau. *Pedosphere*, **15(2)**, 189-195.
1803. Huang, M B, T H Dang, J Gallichand, M Goult. (2003) Effect of increased fertilizer application to wheat crop on soil-water depletion in the Loess Plateau, China. *Agricultural Water Management*, **58**, 267-278.
1804. Liu W Z, Zhang X C (2007) Optimizing water and fertilizer input using an elasticity index: a case study with maize in the loess plateau of China. *Field Crops Research*, **100**, 302-310.
1805. Zhang X C, Liu W Z (2005) Simulating potential response of hydrology, soil erosion, and crop productivity to climate change in Changwu tableland region on the Loess Plateau of China. *Agricultural and Forest Meteorology*, **131**, 127-142.

## 19 LZD-Linze Inland River Basin Comprehensive Research Station

1901. Su Yongzhong, Wang Fang, Suo Dongrang, Zhang Zhihui, Du Mingwu (2006) Long-term effect of fertilizer and manure application on soil-carbon sequestration and soil fertility under the wheat-wheat-maize cropping system in northwest China. *Nutr Cycl Agroecosyst*, **75**, 285-295.
1902. Zhao Wenzhi, Chang Xueli, He Zhibin, Zhang Zhihui (2007) Study on vegetation ecological water requirement in Ejina Oasis. *Science in China Series D, Earth Science*.
1903. Chang Xuexiang, Zhao Wenzhi, Zhang Zhihui, Su Yongzhong (2006) Sap flow and tree conductance of shelter-belt in arid region of China. *Agricultural and Forest Meteorology*.

## 20 LSA-Lhasa Plateau Ecological Research Station

2001. Shi Peili, Zhang Xianzhou, Zhong Zhiming, Ouyang Hua (2006) Diurnal and seasonal variability of soil CO<sub>2</sub> efflux in a cropland ecosystem on the Tibetan Plateau. *Agricultural and Forest Meteorology*, **137**, 220-233.
2002. Shi Peili, Körnerb Christian, Hochb Günter (2006) End of season carbon supply status of woody species near the treeline in western China. *Basic and Applied Ecology*, **7**, 370-377.
2003. Zhang Xianzhou, Zhang Yiguang, Zhou Yunhua (2000) Measuring and

modelling photosynthetically active radiation in Tibet Plateau during April–October. *Agricultural and Forest Meteorology*, **102**, 207-212.

## **21 CBF-Research Station of Changbai Mountain Forest Ecology**

2101. Pei Tiefan, Liu Jianmei, Li Jinzhong, Wang Anzhi (2005) A modified subsurface stormflow model of hillsides in forest catchment. *Hydrological Processes*, **19**, 2609-2624.
2102. Guan Dexin, Wu Jiabing, Zhao Xiaosong, Han Shijie, Yu Guirui, Sun Xiaomin, Jin Changjie (2006) CO<sub>2</sub> fluxes over an old, temperate mixed forest in northeastern China. *Agricultural and Forest Meteorology*, **137**, 138-149.
2103. Wang Anzhi, Jin Changjie, Diao Yiwei, Guan Dexin, Pei Tiefan (2005) Estimation of water vapor source/sink distribution and evapotranspiration over broadleaved Koreanpine forest in Changbai Mountain using inverse Lagrangian dispersion analysis. *Journal of Geophysical Research*, **110**.
2104. Zhang Junhui, Han Shijie, Yu Guirui (2006) Seasonal variation in carbon dioxide exchange over a 200-year-old Chinese broad-leaved Korean pine mixed forest. *Agricultural and Forest Meteorology*, **137**, 150-165.
2105. Wu Jiabing, Guan Dexin, Wang Miao, Pei Tiefan, Han Shijie, Jin Changjie (2006) Year-round soil and ecosystem respiration in a temperate broad-leaved Korean Pine forest. *Forest Ecology and Management*, **223**, 35-44.

## **22 BJF-Beijing Forest Ecosystem Research Station**

2201. Zhang Yuxin, Ma Keming, Madhur Anand, Fu Bojie (2006) Do generalized scaling laws exist for species abundance distribution in mountains?. *OIKOS*, **00**, 1-8.
2202. Sun Shucun, Gao Xianming, Chen Lingzhi (2004) High acorn predation prevents the regeneration of quercus liaotungensis in the Dongling Mountain Region of North China. *Restoration Ecology*, **12(3)**, 335-342.
2203. Fu B J, Liu S L, Ma KM, Zhu Y G (2004) Relationships between soil characteristics, topography and plant diversity in a heterogeneous deciduous broad-leaved forest near Beijing, China. *Plant and Soil*, **261**, 47-54.
2204. Gao Xianming, Sun Shucun (2005) Effects of the small forest carnivores on the recruitment and survival of Liaodong oak (*Quercus wutaishanica*) seedlings. *Forest Ecology and Management*, **206**, 283-292.
2205. Su Hongxin, Sang Weiguo (2004) Simulations and analysis of net primary productivity in quercus liaotungensis forest of Donglingshan Mountain range in response to different climate change scenarios. *Acta Botanica Sinica*, **46(11)**, 1281-1291.

### **23 HTF-Huitong Experimental Station of Forest Ecosystem**

2301. Huang Y, Wang S L, Feng Z W, Ouyang Z Y, Wang X K, Feng Z Z (2004) Changes in soil quality due to introduction of broad-leaf trees into clear-felled Chinese fir forest in the mid-subtropics of China. *Soil Use and Management*, **20**, 418-425.
2302. Hu Y L, Wang S L, Zeng D H (2006) Effects of single Chinese fir and mixed leaf litters on soil chemical, microbial properties and soil enzyme activities. *Plant and Soil*, **282**, 379-386.
2303. Chen Longchi, Wang Silong, Yu Xiaojun (2005) Effects of Phenolics on seedling growth and <sup>15</sup>N nitrate absorption of *Cunninghamia lanceolata*. *Allelopathy Journal*, **15(1)**, 57-66.
2304. Wang Qingkui, Wang Silong, Fan Bing, Yu Xiaojun (2007) Litter production, leaf litter decomposition and nutrient return in *Cunninghamia lanceolata* plantations in south China: effect of planting conifers with broadleaved species. *Plant Soil*, DOI 10.1007/s, 11104-007-9333-2.

### **24 DHF-Dinghushan Forest Ecosystem Research Station**

2401. Zhou Guoyi, Liu Shuguang, Li Zhian, Zhang Deqiang, Tang Xuli, Zhou Chuanyan, Yan Junhua, Mo Jiangming (2006) Old-growth forests can accumulate carbon in soils. *Science*, **314**,1417.
2402. Yan Junhua, Wang Yingping, Zhou Guoyi, Zhang Deqiang (2006) Estimates of soil respiration and net primary production of three forests at different succession stages in South China. *Global Change Biology*, **12**, 810-821.
2403. Tang Xuli, Liu Shuguang, Zhou Guoyi, Zhang Deqiang, Zhou Cunyu (2006) Soil-atmospheric exchange of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O in three subtropical forest ecosystems in southern China. *Global Change Biology*, 546-560.
2404. Mo Jiangming, Sandra Brown, Xue Jinghua, Fang Yunting, Li Zhian (2006) Response of litter decomposition to simulated N deposition in disturbed, rehabilitated and mature forests in subtropical China. *Plant and Soil*, **282**, 135-151.
2405. Zhou Guoyi, Guan Lili, Wei Xiaohua, Zhang Deqiang, Zhang Qianmei, Yan Junhua, Wen Dazhi, Liu Juxiu, Liu Shuguang, Huang Zhongliang, Kong Guohui, Mo Jiangming, Yu Qingfa (2007) Litterfall production along successional and altitudinal gradients of subtropical monsoon evergreen broadleaved forests in Guangdong, China. *Plant Ecol*, **188**, 77-89.

### **25 HSF-Heshan Hilly Land Integrated Experimental Station**

2501. Li Zhian, Cao Yusong, Zou Bi, Ding Yongzhen, Ren Hai (2003) Acid

- buffering capacity of forest litter from some important plantation and natural forests in South China. *Acta Botanica Sinica*, **45(12)**, 1398-1407.
2502. Fang W, Peng S L (1997) Development of species diversity in the restoration process of establishing a tropical man-made forest ecosystem in China. *Forestry Ecology and Management*, 185-196.
2503. Li Zhian, Peng Shaolin, Debbie J. Rae, Zhou Guoyi (2001) Litter decomposition and nitrogen mineralization of soils in subtropical plantation forests of southern China, with special attention to comparisons between legumes and non-legumes. *Plant and Soil*, **229**, 105-116.
2504. Peng S L, Liu J, Lu H F (2005) Characteristics and role of acacia auriculiformis on vegetation restoration in lower subtropics of China. *Journal of Tropical Forest Science*, **17(4)**, 508-525.

## **26 MXF-Maoxian mountain Ecosystem Research Station**

2601. Bao Weikai (2005) Structural features of *Polytrichum formosum* Hedw. populations along a habitat sequence of cutover restoration in the eastern Tibetan Plateau. *Ecol Res*, **20**, 701-707.
2602. Zhang Yongmei, Wu Ning, Zhou Guoyi, Bao Weikai (2005) Changes in enzyme activities of spruce (*Picea balfouriana*) forest soil as related to burning in the eastern Qinghai-Tibetan Plateau. *Applied Soil Ecology*, **30**, 215-225.
2603. Yao Xiaoqin, Liu Qing (2007) Changes in photosynthesis and antioxidant defenses of *Picea asperata* seedlings to enhanced ultraviolet-B and to nitrogen supply. *Physiologia Plantarum*, **129**, 364-374.
2604. Sun Geng, Wu Ning, Luo Peng (2005) Soil N pools and transformation rates under different land uses in a subalpine forest-grassland ecotone. *Pedosphere*, **15(1)**, 52-58.

## **27 GGF-Gongga Mountain observation and research station**

2701. Zhu Wanze, Cai Xiaohu, He Fei, Wang Jinxi. Changes in plant species diversity along a chronosequence of vegetation restoration on the humid evergreen broad-leaved forest in the Rainy Zone of West China.
2702. Wang Genxu, Wang Yibo, Jumpei Kubot (2006) Land-cover changes and its impacts on ecological variables in the headwaters area of the Yangtze River, China. *Environmental Monitoring and Assessment*, **120**, 361-385.
2703. Cheng Genwei, Luo Ji (2004) Succession features and dynamic simulation of subalpine forest in the gongga mountain, China. *Journal of Mountain Science*, **1(1)**, 29-37.
2704. Cheng Genwei, Luo Ji (2003) The carbon accumulation and dissipation features of sub-alpine woodland in Mt Gongga. *Journal of Geographical*

*Sciences*, **13(1)**, 13-18.

2705. Cheng Genwei, Luo Ji (2004) Succession Features and Dynamic Simulation of Subalpine Forest in the Gongga Mountain, China. *Journal of Mountain Science*, **1(1)**, 29-37.

## **28 ALF-Ailaoshan Ecological Station**

2801. Zou X M, Ruan H H, Fu Y, Yang X D, Sha L Q (2005) Estimating soil labile organic carbon and potential turnover rates using a sequential fumigation-incubation procedure. *Soil Biology and Biochemistry*, **37**, 1923-1928.
2802. Chan On Chim, Yang Xiaodong, Fu Yun, Feng Zhili, Sha Liqing, Peter Casper, Zou xiaoming (2006) 16S rRNA gene analyses of bacterial community structures in the soils of evergreen broad-leaved forests in south-west China. *FEMS Microbiol Ecol*, **58**, 247-259.
2803. Liu W Y, Fox J E D, Xu Z F (2002) Nutrient fluxes in bulk precipitation, throughfall and stemflow in montane subtropical moist forest on Ailao Mountains in Yunnan, SW China. *Journal of Tropical Ecology*, **18**, 527-548.
2804. Liu W, Fox J E D, Xu Z (2003) Litterfall and nutrient dynamics in montane moist evergreen broad-leaved forest on Ailao Mountains, SW China. *Plant Ecology*, **164**, 157-170.
2805. Liu W, Fox J E D, Xu Z F (2002) Biomass and nutrient accumulation in montane evergreen broad-leaved forest (*Lithocarpus xylocarpus* type) in Ailao Mountains, SW China. *Forest Ecology and Management*, **158**, 223-235.

## **29 BNF-Xishuangbanna Tropical Rainforest Ecosystem Station**

2901. Li Qingjun, Xu Zaifu, W. John Kress, Xia Yongmei, Zhang Ling, Deng Xiaobao, Gao Jiangyun, Bai Zhilin (2001) Flexible style that encourages outcrossing. *Nature*, **401**, 432.
2902. Liu Wenjie, Meng Fanrui, Zhang Yiping, Liu Yuhong, Li Hongmei (2004) Water input from fog drip in the tropical rain forest of Xishuangbanna, South-West China. *Journal of Tropical Ecology*, **20**, 517-524.
2903. Zhu Hua, Cao Min, Hu Huabin (2006) Geological history, flora and vegetation of Xishuangbanna, Southern Yunnan. *Biotropica*, **38(3)**, 310-317.
2904. Zhang Yiping, Sha Liqing, Yu Guirui, Song Qinghai, Tang Jianwei, Wang Yuesi, Zheng Zheng, Zhao Shuangju, Yang Zhen, Sun Xiaomin (2006) Annual variation of carbon flux and impact factors in the tropical seasonal rainforest of Xishuangbanna, SW China. *Science in China, Series D: Earth*



*Sciences*, **49** supp. **II**, 150-162.

2905. Lin Luxiang, Cao Min, He Yongtao, Baskin J M, Baskin C C (2006) Nonconstituent species in soil seed banks as indicators of anthropogenic disturbance in forest fragments. *Canadian Journal of Forest Research*, **36(9)**, 2300-2316.

### **30 NMG-Inner Mongolia Grassland Ecosystem Research Station**

3001. Bai Yongfei, Han Xingguo, Wu Jianguo, Chen Zuozhong, Linghao Li (2004) Ecosystem stability and compensatory effects in the Inner Mongolia grassland. *Nature*, **431**.
3002. Wang Zhiping, Han Xingguo, Li Linghao, Chen Quansheng. Methane emission from small wetlands and implications for semiarid region budgets. *Journal of Geophysical Research*, **110**, D13304.
3003. Yuan Zhiyou, Li Linghao, Han Xingguo, Chen Shiping, Wang Zhengwen, Chen Quansheng, Bai Wenming (2006) Nitrogen response efficiency increased monotonically with decreasing soil resource availability: a case study from a semiarid grassland in northern China. *Oecologia*, **148**, 564-572.
3004. Zhou Z, Sun O J, Huang J, Gao Y, Han X (2006) Land use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. *Functional Ecology*, **20**, 753-762.

### **31 HBG-Haibei Alpine Meadow Ecosystem Research Station**

3101. Zhao Liang, Li Yingnian, Xu Shixiao, Zhou Huakun, Gu Song, Yu Guirui, Zhao Xinquan (2006) Diurnal, seasonal and annual variation in net ecosystem CO<sub>2</sub> exchange of an alpine shrubland on Qinghai-Tibetan plateau. *Global Change Biology*, **12**, 1940-1953.
3102. Cui Xiaoyong, Tang Yanhong, Gu Song, Shi Shengbo, Seiichi Nishimura, Zhao Xinquan (2004) Leaf orientation, incident sunlight, and photosynthesis in the alpine species *suassurea superba* and *gentiana straminea* on the Qinghai-Tibet Plateau. *Arctic, Antarctic, and Alpine Research*, **36(2)**, 219-228.
3103. Guo Songchang, Peter Savolainen, Su Jianping, Zhang Qian, Qi Delin, Zhou Jie, Zhong Yang, Zhao Xinquan, Liu Jianquan (2006) Origin of mitochondrial DNA diversity of domestic yaks. *BMC Evolutionary Biology*.
3104. Wang Jianmei, Zhang Yanming, Wang Dehua (2006) Seasonal thermogenesis and body mass regulation in plateau pikas (*Ochotona curzoniae*). *Oecologia*, **149**, 373-382.
3105. Zhou Huakun, Zhou Li, Zhao Xinquan, Liu Wei, Li Yingnian, Gu Song, Zhou

Xinmin (2006) Stability of alpine meadow ecosystem on the Qinghai-Tibetan Plateau. *Chinese Science Bulletin*, **51(1)**, 1-8.

### **32 SJM-Sanjiang Plain Marsh Ecological Experiment Station**

- 3201. Zhang Lihua, Song Changchun, Wang Dexuan, Wang Yiyong. Effects of exogenous nitrogen on freshwater marsh plant growth and N<sub>2</sub>O fluxes in Sanjiang Plain, Northeast China.
- 3202. Song Changchun, Zhang Jinbo, Yang Wenyan, Xu Xiaofeng. The effects of human disturbance on hydrological thermal condition and carbon cycling in marsh of Northeast China.
- 3203. Zhang Jinbo, Song Changchun, Yang Wenyan. Tillage effects on soil carbon fractions in the Sanjiang Plain, Northeast China.

### **33 NMD-Naiman Desertification Research Station**

- 3301. Zhao Halin, Yi Xiaoyong, Zhou Ruilian, Zhao Xueyong, Zhang Tonghui, Sam Drake (2006) Wind erosion and sand accumulation effects on soil properties in Horqin Sandy Farmland, Inner Mongolia. *Catena*, **65**, 71-79.
- 3302. Zhang Tonghui, Zhao Halin, Li Shenggong, Li Fengrui, Yasuhito Shirato, Toshiya Ohkuro, Ichiro Taniyamab (2004) A comparison of different measures for stabilizing moving sand dunes in the Horqin Sandy Land of Inner Mongolia, China. *Journal of Arid Environments*, **58**, 203-214.
- 3303. Zhao Halin, Zhou Ruilian, Zhang Tonghui, Xueyong Zhao (2006) Effects of desertification on soil and crop growth properties in Horqin sandy cropland of Inner Mongolia, north China. *Soil and Tillage Research*, **87**, 175-185.

### **34 SPD-Shapotou Desert Research and Experiment Station**

- 3401. Li Xinrong, Xiao Honglang, Zhang Jingguang, Wang Xinping. Long-term ecosystem effects of sand-binding vegetation in the Tengger Desert, Northern China. *Restoration Ecology*, **12(3)**, 376-390.
- 3402. Li Xinrong, Ma Fengyun, Xiao Honglang, Wang Xinping, Ke Chung Kim (2004) Long-term effects of revegetation on soil water content of sand dunes in arid region of Northern China. *Journal of Arid Environments*, **57**, 1-16.
- 3403. Li Xinrong, Jia Xiaohong, Long Liqun, Stefan Zerbe (2005) Effects of biological soil crusts on seed bank, germination and establishment of two annual plant species in the Tengger Desert (N China). *Plant and Soil*, **277**, 375-385.
- 3404. Li X R, Xiao H L, He M Z, Zhang J G (2006) Sand barriers of straw checkerboards for habitat restoration in extremely arid desert regions.

*Ecological Engineering*, **28**, 149-157.

3405. Liu Lichao, Li Shouzhong, Duan Zhenghua, Wang Tao, Zhang Zhishan, Li Xinrong (2006) Effects of microbiotic crusts on dew deposition in the restored vegetation area at Shapotou. *Northwest China Journal of Hydrology*, **328**, 331-337.

### **35 ESD-Ordos Sandland Ecological Research Station**

3501. He Weiming, Zhang Hong, Dong Ming (2004) Plasticity in fitness and fitness-related traits at ramet and genet levels in a tillering grass *Panicum miliaceum* under patchy soil nutrients. *Plant Ecology*, **172**, 1-10.
3502. Huang Zhenying, Dong Ming, Yitzchak Gutterman (2004) Factors influencing seed dormancy and germination in sand, and seedling survival under desiccation, of *Psammochloa villosa* (Poaceae), inhabiting the moving sand dunes of Ordos, China. *Plant and Soil*, **259**, 231-241.
3503. Ye Xuehua, Yu Feihai, Dong Ming (2006) A trade-off between guerrilla and phalanx growth forms in *leymus secalinus* under different nutrient supplies. *Annals of Botany*, **98**, 187-191.
3504. Yu Feihai, Dong Ming, Bertil Krüsi (2004) Clonal integration helps *Psammochloa villosa* survive sand burial in an inland dune. *New Phytologist*, **162**, 697-704.
3505. Zhang Chengyi, Yang Chi, Dong Ming (2002) Clonal integration and its ecological significance in *Hedysarum laeve*, a rhizomatous shrub in Mu Us Sandland. *J Plant Res*, **115**, 113-118.

### **36 FKD-Fukang Desert Ecosystem Observation and Experiment Station**

3601. Li Yan, Xu Hao, Shabtal Cohen (2005) Long-term hydraulic acclimation to soil texture and radiation load in cotton. *Plant, Cell and Environment*, **28**, 492-499.
3602. Tang Lisong, Li Yan, Zhang Jianhua (2005) Physiological and yield responses of cotton under partial rootzone irrigation. *Field Crops Research*, **94**, 214-223.
3603. Xu Hao, Li Yan (2006) Water-use strategy of three central Asian desert shrubs and their responses to rain pulse events. *Plant and Soil*, **285**, 5-17.
3604. Xu Hao, Li Yan, Xu Guiqing, Zou Ting (2007) Ecophysiological response and morphological adjustment of two Central Asian desert shrubs towards variation in summer precipitation. *Plant, Cell and Environment*, **30**, 399-409.

### **37 CLD-Cele Desert Research Station**

3701. Zeng Fanjiang, Timothy M Bleby, Peter A Landman, Mark A Adams, Stefan K Arndt (2006) Water and nutrient dynamics in surface roots and soils are not modified by short-term flooding of phreatophytic plants in a hyperarid desert. *Plant and Soil*, **279**, 129-139.
3702. Li Li, Zhang Ximing, Michael Runge, Li Xiaoming, He Xingyuan (2006) Responses of germination and radicle growth of two *Populus* species to water potential and salinity. *Forestry Studies in China*, **8(1)**, 10-15.
3703. LI Xiangyi, Zhang Ximing, et (2002) Water relation on *alhagi sparsifolia* in the southern fringe of Taklamakan Desert. *Acta Botanica Sinica*, **44(10)**, 1219-1224.
3704. Zeng Fanjiang, Bleby Timothy M, Landman Peter A, Adams Mark A, Arndt Stefan K (2006) Water and nutrient dynamics in surface roots and soils are not modified by short-term flooding of phreatophytic plants in a hyperarid desert. *Plant and Soil*, **279**, 129-139.

### **38 DHL-Donghu Experimental Station of Lake Ecosystems**

3801. Guo Nichun, Xie Ping (2006) Development of tolerance against toxic *Microcystis aeruginosa* in three cladocerans and the ecological implications. *Environmental Pollution*, **143**, 513-518.
3802. Lu Min, Xie Ping, Tang Huijuan, Shao Zhaojun, Xie Liqiang (2002) Experimental study of trophic cascade effect of silver carp (*Hypophthalmichthys molitrix*) in a subtropical lake, Lake Donghu, on plankton community and underlying mechanisms of changes of crustacean community. *Hydrobiologia*, **487**, 19-31.
3803. Xie Liqiang, Xie Ping (2002) Long-term (1956-1999) dynamics of phosphorus in a shallow, subtropical Chinese lake with the possible effects of cyanobacterial blooms. *Water Research*, **36**, 343-349.
3804. Xing Yangping, Xie Ping, Yang Hong, Ni Leyi, Wang Yuesi, Rong Kewen (2005) Methane and carbon dioxide fluxes from a shallow hypereutrophic subtropical Lake in China. *Atmospheric Environment*, **39**, 5532-5540.

### **39 THL-Taihu Lake Ecosystem Research Station**

3901. Fan Chengxin, Hu Weiping, Phillip W Ford, Chen Yuwei, Qu Wenchuan, Zhang Lu (2005) Carbon dioxide partial pressure and carbon fluxes of air-water interface in Taihu Lake, China. *Chinese Journal of Oceanology and Limnology*, **23(1)**, 29-38.
3902. Chen Yuwei, Qin Boqiang, Teubner Katrin, Martin T Dokulil (2003)

Long-term dynamics of phytoplankton assemblages: Microcystis-domination in Lake Taihu, a large shallow lake in China. *Journal of Plankton Research*, **25(1)**, 445-453.

3903. Chen Yuwei, Fan Chengxin, Teubner Katrin, Dokulil Martin (2003) Changes of nutrients and phytoplankton chlorophyll-a in a large shallow lake, Taihu, China: an 8-year investigation. *Hydrobiologia*, **506-509**, 273-279.

#### **40 JZB-Jiaozhou Bay Marine Ecosystem Research Station**

4001. Dai Jicui, Song Jinming, Li Xuegang, Yuan Huamao, Li Ning, Zheng Guoxia (2007) Environmental changes reflected by sedimentary geochemistry in recent hundred years of Jiaozhou Bay, North China. *Environmental Pollution*, **145**, 656-667.
4002. Shen Z L (2001) Historical changes in nutrient structure and its influences on phytoplankton composition in Jiaozhou Bay. *Estuarine, Coastal and Shelf Science*, **52**, 211-224.
4003. Shen Zhiliang, Liu Qun, Wu Yulin, Yao Yun (2006) Nutrient structure of seawater and ecological responses in Jiaozhou Bay, China. *Estuarine, Coastal and Shelf Science*, **69**, 299-307.

#### **41 DYB-Daya Bay Marine Ecosystem Research Station**

4101. Sun Lihua, Chen Haoru, Huang Liangmin (2006) Effect of temperature on growth and energy budget of juvenile cobia (*Rachycentron canadum*). *Aquaculture*, **261**, 872-878.
4102. Wang Youshao, Lou Zhiping, Sun Cuici, Wu Meilin, Han Shuhua (2006) Multivariate statistical analysis of water quality and phytoplankton characteristics in Daya. *Oceanologia*, **48(2)**, 193-211.
4103. Zhang Fengqin, Wang Youshao, Lou Zhiping, Dong Junde (2007) Effect of heavy metal stress on antioxidative enzymes and lipid peroxidation in leaves and roots of two mangrove plant seedlings (*Kandelia candel* and *Bruguiera gymnorhiza*). *Chemosphere*, **67**, 44-50.
4104. Song Xingyu, Huang Liangmin, Zhang Jianlin, Huang Xiaoping, Zhang Junbin, Yin Jianqiang, Tan Yehui, Liu Sheng (2004) Variation of phytoplankton biomass and primary production in Daya Bay during spring and summer. *Marine Pollution Bulletin*, **49**, 1036-1044.

#### **42 SYB-Tropical Marine Ecosystem Research Station in Hainan**

4201. Long Lijuan, Song Yang, Wu Jun, Lei Li, Huang Kai, Long Benwen (2006) Development of an efficient method for the preparative isolation and

- purification of chlorophyll a from a marine dinoflagellate *Amphidinium carterae* by high-speed counter-current chromatography coupled with reversed-phase high-performance liquid chromatography. *Anal Bioanal Chem*, **386**, 2169-2174.
4202. Qi Shuhua, Zhang Si, Li Qingxin (2005) A cytotoxic sesquiterpene alkaloid from the south China sea gorgonian *Subergorgia suberosa*. *Journal of Natural Products*, **68**, 1288-1289.
4203. Wu Jun, Xiao Qiang, Huang Jianshe, Xiao Zhihui, Qi Shuhua, Li Qingxin, Zhang Si (2004) Xylococcins O and P, Unique 8, 9, 30-Phragmalin ortho esters from *Xylocarpus granatum*. *Organic Letters*, **6(11)**, 1841-1844.
4204. Huang Liangmin, Tan Yehui, Song Xingyu, Huang Xiaoping, Wang Hankui, Zhang Si, Dong Junde, Chen Rongyu (2003) The status of the ecological environment and a proposed protection strategy in Sanya Bay, Hainan Island, China. *Marine Pollution Bulletin*, **47**, 180-186.
4205. Yu Kefu, Zhao Jianxin, Liu Tungsheng, Wei Gangjian, Wang Pinxian, Kenneth D Collerson (2004) High-frequency winter cooling and reef coral mortality during the Holocene climatic optimum. *Earth and Planetary Science Letters*, **224**, 143-155.

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