

## 王勤学 業績リスト

### 学術原著論文

Wang Q-X., Q-A Xiao, C. Liu, et al. (2011). Effect of reforestation on nitrogen and phosphorus dynamics in the catchment ecosystems of subtropical China: the example of the Hanjiang River basin. *J Sci Food Agric* (On line), DOI 10.1002/jsfa.4607

Liu R, Li Y, Wang Q-X (2011). Variations in water and CO<sub>2</sub> fluxes over a saline desert in western China. *Hydrological Processes* (On line) DOI: 10.1002/hyp.8147.

Wu T-H, Q-X Wang, L. Zhao, O. Batkhishig, M. Watanabe. (2011) Observed trends in surface freezing/thawing index over the period 1987–2005 in Mongolia. *Cold Regions Science and Technology* 69:105–111.

Wang Q-X, Z-G Sun, B. Matsushita and M. Watanabe. (2011) A Simple Remote Sensing EvapoTranspiration Model (Sim-ReSET) and its Application Evapotranspiration ISBN 978-953-307-251-7.

Sun Z-G., Wang Q-X, B. Matsushita, T. Fukushima, Z. Ouyang, M. Watanabe (2011) Evaluation of the VI–Ts method for estimating the land surface moisture index and air temperature using ASTER and MODIS data in the North China Plain. *International Journal of Remote Sensing iFirst*, 1–22

Ooba M., Wang Q-X., Murakami S., Kohata K. (2010) Biogeochemical model (BGC-ES) and its basin-level application for evaluating ecosystem services under forest management practices. *Ecol. Modeling*, 221 (16), 1979-1994

Xiong Y-J., Qiu G-Y., Mo D-K., Lin H., Sun H., Wang Q-X., Zhao S-H., Yin J. (2009) Rocky desertification and its causes in karst areas: a case study in Yongshun County, Hunan Province, China. *Environ. Geol.*, 57 (7), 1481-1488

Liu C., Wang Q-X., Lei A-L., Yang Y-H., Ouyang Z., Lin Y-M, Li Y., Wang K-L (2009) Identification of anthropogenic parameters for a regional nitrogen balance model via field investigation of six ecosystems in China. *Biogeochemistry*, 94 (2), 175-190

- Sun Z-G., Wang Q-X., Matsushita B., Fukushima T., Ouyang Z., Watanabe M. (2009) Development of a Simple Remote Sensing EvapoTranspiration model (Sim-ReSET): Algorithm and model test. *Journal of Hydrology*, 376 (3-4), 476-485
- Wang S-Q., Song X-F., Wang Q-X., Liu C-M., Liu J-R. (2009) Shallow groundwater dynamics in North China Plain. *Journal of Geographical Sciences*, 19 (2), 175-188
- Wu T-H., Wang Q-X., Watanabe M., Chen J., Dorjgotov B. (2009) Mapping vertical profile of discontinuous permafrost with ground penetrating radar at Nalaikh depression, Mongolia. *Environmental Geology*, 56 (8), 1577-1583
- Hasi B., Wang Q-X., Watanabe M., Kameyama S., Bao Y. (2008) Land-cover classification using ASTER Multi-band combinations based on wavelet fusion and SOM Neural Network. *Photogr.Eng.Remote Sensing*, 74(3), 333-342
- Liu C., WATANABE M., WANG Q-X. (2008) Changes in nitrogen budgets and nitrogen use efficiency in the agroecosystems of the Changjiang River basin between 1980 and 2000. *Nutr.Cycl.Agroecosyst.*, 80(1), 19-37
- Liu C., Wang Q-X., Mizuochi M., Wang K-L., Lin Y-M. (2008) Human behavioral impact on nitrogen flow: A case study in the rural areas of the middle and lower reaches of Changjiang River, China. *Agric.Ecosyst.Environ.*, 125 ((1/4)), 84-92
- Sun Z-G., Wang Q-X., Matsushita B., Fukushima T., Ouyang Z., Watanabe M. (2008) A new method to define the VI-Ts diagram using subpixel vegetation and soil information: A case study over a semiarid agricultural region in the North China Plain. *Sensors*, 8 (10), 6260-6279
- Hasi B., Wang Q-X., Yasuoka Y., Watanabe M. (2007) Synergetic use of MODIS, ASTER and Landsat data for land cover classification and its calibration in North China. *Asian J.Geoinformatics*, 7(3), 15-20
- HASI B., WANG Q-X., YANG Y-H, YASUOKA Y, BAO Y-H. (2007) Land cover classification using moderate resolution imaging spectrometer-enhanced vegetation index time-series data and self-organizing map neural network in Inner Mongolia, China. *Journal of Applied Remote Sensing*, 1, 013545, Nov, 2007.  
doi:10.1117/1.2819344.

- Liu C., Otsubo K., Wang Q-X., Ichinose T.(Toshiaki), Ishimura S. (2007) Spatial and temporal changes of floating population in China between 1990 and 2000. *Chin.Geogr.Sci.*, 17(2), 99-109
- Ren X-E., Wang Q-X., Tong C-L., Wu J-S., Zhu Y-L., Kin Z-J., Watanabe M. (2007) Estimation of soil respiration in a paddy ecosystem in the subtropical region of China. *Chin.Sci.Bull.*, 52 (19), 2722-2730
- Sun Z., Wang Q-X., Ouyang Z., Watanabe M., Matsushita B., Fukushima T. (2007) Evaluation of MOD16 algorithm using MODIS and ground observational data in winter wheat field in North China Plain. *Hydrol.Processes*, 21(9), 1196-1206
- Bao X., Watanabe M., Wang Q-X., Hayashi S., Liu J. (2006) Nitrogen budgets of agricultural fields of the Changjiang River basin from 1980 to 1990. *Sci.Total Environ.*, 363(2006), 136-148
- Liu C., WANG Q-X., WATANABE M. (2006) Nitrogen transported to Three Gorges Dam from agro-ecosystems during 1980-2000. *Biogeochemistry*, 81(3), 291-312
- Yang Y., Zhang X., Watanabe M., Zhang J., Wang Q-X., Hayashi S. (2006) Optimizing irrigation management for wheat to reduce groundwater depletion in the piedmont region of the Taihang Mountains in the North China Plain. *Agric.Water Manage.*, 82(2006), 25-44
- HASI B., WANG Q-X, WATANABE M., YANG Y-H and MA J-W. (2005) Land cover classification from MODIS EVI times-series data using SOM neural network. *International J. Remote Sensing*. vol.26, No 22, pp. 4999-5012, Nov, 2005. doi:10.1080/01431160500206650.
- WANG Q-X, WATANABE M. AND OUYANG Z. (2005) Simulation of water and carbon fluxes using BIOME-BGC model over crops in China, *Agricultural and Forest Meteorology*, 131(3-4): 209-224
- WATANABE M., WANG Q-X, HAYASHI S. et al. (2005) Monitoring and Simulation of Water, Heat, and CO<sub>2</sub> Fluxes in Terrestrial Ecosystems Based on the APEIS-FLUX System. *J. Geographical Sciences*. 15(2), 131-141.

- Xu S-X, ZHAO X-Q, LI Y-N, ZHAO L, CAO G-M, TANG Y-H, GU S, WANG Q-X, DU M-Y. (2005) Characterizing CO<sub>2</sub> fluxes for growing and non-growing seasons in a shrub ecosystem on the Qinghai-Tibet Plateau. SCIENCE IN CHINA SERIES D-EARTH SCIENCES 48: 133-140.
- Zhao L, Li Y-N, Zhao X-Q, Xu S-X, Tang Y-H, Yu G-R, Gu S, Du M-Y, & Wang Q-X. 2005: Comparative study of the net exchange of CO<sub>2</sub> in 3 types of vegetation ecosystems on the Qinghai - Tibetan Plateau. Chinese Science Bulletin. 50(16), 1767-1774(2005.8).
- XU S-X, ZHAO X-Q, LI Y-N, ZHAO L., CAO G-M, TANG Y-H., GU S., WANG Q-X., and DU M-Y. (2004) Characterizing CO<sub>2</sub> fluxes for growing and non-growing seasons in a shrub ecosystem on the Qinghai-Tibet Plateau. Science in China: Ser. D Earth Sciences, Vol.48 Supp. I 133-140.
- WANG Q-X, K. OTSUBO et al.: (2002) Estimation of Potential and Convertible Arable Land in China, Journal of Global Environment Engineering, Vol.8, pp. 67-78
- WANG Q-X, K. OTSUBO: (2000) Changes in Area and Quality of Arable Land in China. Journal of Geography Education, 43, 8, 115-121.
- WANG Q-X, H. Takahashi. (1999) "A Land Surface Water Deficit Model for an Arid and Semi-arid Regions: Impact of Desertification on the Water Deficit Status in the Loess Plateau, China". J. Climate. Vol.12, No.1: 244-257
- WANG Q-X, H. Takahashi et al. (1999) "Estimation of Evapotranspiration on the Slope of Hilly Land in the Loess Plateau, China". J. Soil Erosion & Soil and Water Conservation. Vol.5: 42-49
- WANG Q-X, H. Takahashi. (1998) "Regional Hydrologic Effects of Grassland Degradation in the Loess Plateau, China". Hydrological Processes. 12, 2279-2288
- WANG Q-X, H. Takahashi, (1996) "Seasonal Variation of Water Deficit Index (WDI) over the Loess Plateau, China". J. Agri. Meteorology. Vol.52: 661-664.
- WANG Q-X, (1994) "Climatic Changes and their Impact on Agricultural Production in the Loess Plateau of China". Pak. J. Agri. Sci. 31(4): 394-400.

- WANG L., WANG Q-X, and R-Y ZHANG, (1993) "Human Impacts on the Ecological Environment and Modern Urban Climate Change in the Loess Plateau". *Journal of Chinese Geography Science*, 3(4): 365-375
- 劉晨, 王勤学, 雷阿林, 楊永輝, 歐陽竹, 林躍明, 李彦, 王克林 (2009): 中国典型生態系における現地調査による窒素収支モデルの諸パラメータの同定. *システム農学*, 25 (1), 53-64
- 劉晨, 王勤学, 水落元之, 楊永輝, 石村貞夫 (2007): 中国長江中下流農村地域における人間生活が窒素フローに及ぼす影響の現地調査研究. *システム農学*, 23(4), 305-316
- 劉晨, 王勤学, 渡辺正孝 (2007): 農生態系から三峡ダムに輸送された窒素負荷量の時空変化. *システム農学*, 23(2), 153-164
- 劉晨, 王勤学, 一ノ瀬俊明, 大坪国順 (2005): 市場経済導入初期における中国国内人口移動の空間分布及び要因分析. *システム農学*. 21(1): 33-46.
- 劉晨, 王勤学, 一ノ瀬俊明, 大坪国順 (2005): 中国国内における流動人口の空間分布およびその要因分布. *地理学評論*, 第 78 卷, 586-600.
- 王勤学, 大坪国順 (2000): 中国における砂塵あらしの増加と土地利用の変化、*日本土木学会誌*, 85(9)、64-67.
- 肖平, 王勤学 (1999): 中国における 1949 年以降の食糧生産の変化とその要因、*地理学評論*, 72A、589-599.
- Wang J., Li Y., Wang Q-X., Du M., Xue X., Zhang F. (2010) Comparative Analysis of Soil Heat Flux between Two Alpine Meadow Vegetation Types at Haibei Station, Qilian Mountains. *Chinese Journal of Agrometeorology*, 31 (1), 19-24 <In Chinese>
- Sun J-W, Li Y-N., Song C-G, Wang J-L., Zhang F-W. , Wang Q-X. (2010) Seasonal Dynamics Model of Aboveground Biomass and Leaf Area Index on Alpine *Kobresia humilis* Meadow in Qinghai-Tibet Plateau. *Chinese Journal of Agrometeorology*, 31 (2), 230-234 <In Chinese>

- Li Y-N., Zhao L. , Zhao X-Q., Wang Q-X., Du M-Y., Zhang F-W. (2009) The Dynamic Features of Alpine *Potentilla fruticosa* Shrub Meadow Vegetation Reflectivity. *Journal of Mountain Science*, 27 (3), 265-269 <In Chinese>
- Liu R., Wang Q-X., Tang L., Li Y. (2009) Seasonal variation in water, heat and CO<sub>2</sub> fluxes and its driving forces over a saline desert. *Acta Ecol.Sin.*, 29 (1), 69-75 <In Chinese>
- Wang J-L. , Li Y-N., Du M-Y., Wang Q-X., Tang Y-H., Xiao J-X, Zhang F-W., Wang S-P. (2009) The Features of Microclimate and Vegetation Distribution on the Southern Lenglonglin, Qilian Mountains. *JOURNAL OF MOUNTAIN SCIENCE*, 27 (4), 418-426 <In Chinese>
- Zheng X-J., Wang Q-X., Liu R. (2009) The condensation water input to the saline-alkaline desert ecosystem in the Southeastern edge of the Junggar Basin. *Progress in Natural Science*, 19 (11), 1175-1186 <In Chinese>
- Li Y-N., Wang Q-X., Du M-Y., Zhao X-Q., Zhao L., Xu S-X., Gu S. (2008) Diurnal changes of micro climate in Haibei alpine wetland in the Qilian mountains. *Plateau Meteorol.*, 27 (1), 193-201 <In Chinese>
- Li Y-N., Zhao L., Xu S-X., Du M-Y., Wang Q-X., Zhao X-Q. (2008) Study on the UV-A and UV-B changes and their correlations with meteorological factors in the Haibei alpine meadow in the Qilian Mountains. *Arid Zone Res.*, 25 (2), 266-272 <In Chinese>
- Wang L., Zhen L., Liu X-L., Batkhishig O., Wang Q-X. (2008) Comparative studies on climate changes and influencing factors in central Mongolian Plateau Region. *Geogr.Res.*, 27 (1), 171-180 <In Chinese>
- Wang S-Q., Song X-F., Wang Q-X., Xiao G-Q., Liu C-M. (2008) Dynamic Features of Shallow Groundwater in North China Plain. *Acta Geographica Sinica*, 63 (5), 462-472 <In Chinese>
- Xiong Y-J., Zeng S., Wu X-Q., Qiu G-Y., Wang Q-X., Zhao S-H., Yi Q. (2008) Advances in Remote Sensing of Inland Water Quality Based on Statistics. *REMOTE SENSING INFORMATION*, (3), 5-13 <In Chinese>

- Zhang F-W., Liu An-H., Li Y-N., Zhang L., Wang Q-X., Du M-Y. (2008) CO<sub>2</sub> flux in alpine wetland ecosystem on the Qinghai-Tibetan Plateau. *Acta Ecol.Sin.*, 28 (2), 1-10 <In Chinese>
- Zhang F-W., Zhao X-Q., Li Y-N., Gu S., Wang Q-X., Du M-Y., Tang Y. (2008) Effects of one precipitation process on CO<sub>2</sub> flux and thermal transportation in alpine meadow of Qinghai-Tibetan Plateau. *Chin.J.Ecol.*, 27 (10), 1685-1691 <In Chinese>
- Zhen L., Liu J-Y., Liu X-L., Wang L., Batkhishig O., Wang Q-X. (2008) Structural change of agriculture-livestock system and affecting factors in Mongolian plateau. *J.Arid Land Resour.Eenviron.*, 22 (1), 144-151 <In Chinese>
- Zhu Y-L., Wu J-S., Tong C-L., Wang K-L., Wang Q-X. (2008) Responses of CO<sub>2</sub> Fluxes to Light Intensity and Temperature in Rice Paddy Field. *Chinese Journal of Environmental Science*, 29 (4), 1040-1044 <In Chinese>
- Li Y-N., Zhao L., Zhao X-Q., Wang Q-X., Zhang F.W. (2007) The features of soil organic matters supplement and CO<sub>2</sub> exchange between ground and atmosphere in alpine wetland ecosystem. *J.Glaciol.Geocryol.*, 29 (6), 940-946 <In Chinese>
- ZHANG F-W, LI Y-N, LI H-Q, WANG Q-X, DU M-Y, ZHAO L., WANG S-P. The Comparative Study of the Apparent Quantum Yield and Maximum Photosynthesis Rates of 3 Typical Vegetation Types on Qinghai-Tibetan Plateau (in Chinese). *Acta Agrestia Sinica*. 2007, 15(5), 442-448.
- Zhu Y., TONG C., WU J., WANG K., WANG Q-X., REN X. (2007) Seasonal characteristics of CO<sub>2</sub> fluxes from the paddy ecosystem in subtropical region. *Chin.J.Enviroin.Sci.(in Chinese)*, 28(2), 283-288
- Li Y-N., Zhang F., Liu A., Zhao L., Wang Q-X., Du M. (2006) Responses of soil temperature and humidity to changes of vegetation coverage in alpine *Kobresia tibetica* meadow. *Chin.J.Agroeteorol.(in Chinese)*, 27(4), 265-268
- Li Y-N., Zhao L., Wang Q-X., Du M., Gu S., Xu S., Zhang F., Zhao X. (2006) Estimation of biomass and annual turnover quantities of *potentilla froticosa* shrub. *ACTA Agrestia Sinica(in Chinese)*, 14(1), 72-76

- Li Y-N., DU M., TANG Y., WANG Q-X., ZHAO X., GU S. (2006) UV-B changing characteristics of alpine meadow area at Haibei station in Qiliang mountain. *J.Arid Land Resour.Environ.*(in Chinese), 20(3), 79-84
- Li Y-N., Wang Q-X., Du M-Y., Zhao L., XU S-X., Tang Y., Zhao X-Q., Yu G. (2006) A study on replenishment and decomposition of organic matter in and mat-cryic cambisols CO<sub>2</sub> flux between vegetation and atmosphere. *Acta Agrestia Sin.*(Chinese), 14(2), 165-169
- Li Y-N., Zhao L., Xu S-X., Yu G-R., Du M-Y., Wang Q-X., Sun X-M., Tang Y., Zhao X-Q., Gu S. (2006) Plant community structure and ecological characteristics of the alpine wetland in haibei area of qilian mountains. *J.Glaciol.Geocryol.*(Chinese), 28(1), 76-84
- WANG Q-X, WATANABE M., HAYASHI S. et al. (2004) Monitoring and Simulation of Water, Heat and CO<sub>2</sub> Fluxes in Various Terrestrial Ecosystems (in Chinese), *Acta Geographica Sinica*, 59 (1): 13-24.
- LI Y., WANG Q-X, MA J. et al. (2004) Water, Heat and CO<sub>2</sub> Transfer over a Salinized Desert in the Arid Area (in Chinese). *Acta Geographica Sinica*, 59 (1): 33-39.
- LI Y-N, WANG Q-X, GU S. et al. (2004) Integrated Monitoring of Alpine Vegetation Types and its Primary Production (in Chinese). *Acta Geographica Sinica*, 59 (1): 40-48.
- SUN Z-G, WANG Q-X, OUYANG Z. et al. (2004) Validation of the Feasibility of MOD16 Algorithm for Estimating Crop Field Vapor Flux in North China Plain (in Chinese). *Acta Geographica Sinica*, 59 (1): 49-55.
- YANG Y-H, WATANABE M., WANG Z-P, WANG Q-X et al. (2004) Impacts of Temperature and Precipitation Changes on Soil Moisture of Taihang Mountains (in Chinese). *Acta Geographica Sinica*, 59 (1): 56-63.
- ZHOU C-P, OUYANG H., WANG Q-X et al. (2004) Estimation of Net Primary Productivity in Tibetan Plateau (in Chinese). *Acta Geographica Sinica*, 59 (1): 74-79.
- MATSUSHITA B., YANG C-F, CHEN J., WANG Q-X et al. (2004) Accurate Estimation of Net Primary Productivity (NPP) of Terrestrial Ecosystem at the Regional Scale (in Chinese). *Acta Geographica Sinica*, 59 (1): 80-87.

- KAMEYAMA S., ZHANG J-Q, WANG Q-X et al. (2004) An Approach to Estimate the Water Level and Volume of Dongting Lake Using Terra/MODIS Data (in Chinese). *Acta Geographica Sinica*, 59 (1): 88-94.
- BUHE A., MA J-W WANG Q-X et al. (2004) Scaling Transformation of Remote Sensing Digital Image with Multiple Resolutions from Different Sensors (in Chinese). *Acta Geographica Sinica*, 59 (1): 101-110.
- LI Y-N, ZHAO X-Q, CAO G-M, ZHAO L., WANG Q-X ., (2004) Analysis on Vegetation Productivity of Alpine Meadow Ecosystem, Plateau Meteorology (in Chinese), 23(4):558-567
- WATANABE M., WANG Q-X, HAYASHI S. et al. (2004) A Methodology of Integrated Environmental Monitoring: A Review on Researches of APEIS Project (in Chinese), *Acta Geographica Sinica*, 59 (1): 3-12.
- LI Y-N, ZHAO X-Q, WANG Q-X et al. (2003) Comparative Research on Primary Production and its Environmental Condition of Five Alpine Vegetation Types (in Chinese). *J. Mountain Science*, Vol.21 No.3: 257—264
- WANG Q-X, (1993) "Methods and Models of Resource-saving Agriculture in China" (in Chinese). *Chinese Population, Resources and Environment*, 3(1): 55-58.
- CHEN Y-M and WANG Q-X, (1992) "Variation and its Prediction of Precipitation in Semi-arid Belt of the Loess Plateau, China" (in Chinese), *Journal of Yantai Teachers College*, (1-2): 86-93
- WANG L., WANG Q-X, and R-Y ZHANG, (1992) "Impacts of Human Activities on the Present Climatic Change in the Loess Plateau, China" (in Chinese), *Journal of Natural Resources*, 7(3): 273-281
- WANG Q-X and R-Y ZHANG, (1990) "The Numerical Simulation Experiment of an Idealized Climatic Feedback System"(in Chinese), *J. Beijing Normal Univ. (Natural Sciences)*, Sup.1: 88-95

## 総説・解説論文

- 王勤学 (2010) 見えない危機に脅かされるモンゴルの大草原. 21世紀 環境とエネルギーを考える. 21-34.
- 王勤学, 渡辺正孝, 劉紀遠, 塚本直也 (2008) 中国における環境資源への温暖化影響及び温暖化影響早期観測ネットワークの構築. 季刊 環境研究, 2008 (149), 31-40
- 王勤学 (2008) さしせまる「モンゴル草原が消える日」. ニュートン, 28 (2), 118
- 王勤学 (2008) 激動中国での体感. 水文・水資源学会誌, 21 (5), 390-391
- 一ノ瀬俊明, 大坪国順, 王勤学, 張祖陸 (2006) 中国・済南市における高解像度水資源需要マップ作成の試み. 榎根勇監修, 中国が進める循環経済と環境政策, 愛知国際中国学研セ, 201-208
- WANG Q-X, (1994) "Advances in the Methodology of Natural Resource Studies" (in Chinese), Territory and Natural Resources Research, (4): 66-72.
- WANG Q-X, Hongxing Cao, (1993) "Research Advances of Chaotic Climate" (in Chinese), Advances in Earth Sciences, 8(4): 1-10

## 査読ない論文

- WANG, Q-X. and K. Otsubo: A GIS based study on grassland degradation and increase of dust storm in China. In: Fundamental Issues Affecting Sustainability of the Mongolian Steppe (edited by T. Chuluun and D.Ojima), Interpress. IISNC, Ulaanbaatar, Mongolia. pp.110-115
- WANG, Q-X, and K. OTSUBO. Relationship between Agricultural Land Use Change and Socioeconomic Factors in North-East China in Recent Decades (in English). In: Land Use and Cover Change. R.B. Singh, Jefferson Fox, and Y. Himiyama (eds.), Science Publishers, INC. ENFIELD, USA, pp.239-246
- WANG, Q-X, "Relationship between Thermal Condition in winter and Disaster of Drought and Flood in Western China as well as their Impacts on Agricultural Production" (in

- Chinese). In: "Geography and Agricultural Development", China Meteorological Press, Beijing: 151-154
- WANG, Q-X, "Chaotic and Holographic Features in the Changes of Droughts and Floods in China", In: "Climate Change, Natural Disasters and Agricultural Strategies", China Meteorological Press, Beijing: 297-300
- WANG, Q-X and Hongxing Cao, "Dynamic Behavior of an Atmosphere-Ocean-Sea ice System with Aerosol Effect" (in Chinese). In: "Advances of Synthetic Research on Astronomy, Geography and Biology". China Science and Technology Press, Beijing: 19-25
- R-Y ZHANG and WANG, Q-X, "A Synthetic Climatic Rationalization in the Loess Plateau, China" (in Chinese). In: "Region, Disaster and Geographic Research", China Science Press, Beijing: 79-101
- WANG, Q-X, "An Analysis on the Long-term Evolution of the Climate System" (in Chinese). In: "Advances of Theoretical Geography", Map Press of Shandong Province, Jinan City: 180-185
- Xiaodong Li, Shangwen Shi, and WANG, Q-X, "Quantitative Analysis on Droughts and Floods in the Loess Plateau"(in Chinese). In: "Research on Models for Comprehensive Development and Management in the Loess Plateau, China". China Science Press, Beijing: 99-109

## 著書

- Wang, Q-X., Z-G Sun, B. Matsushita and M. Watanabe (2011). A Simple Remote Sensing EvapoTranspiration Model (Sim-ReSET) and its Application. Evapotranspiration, Book edited by: Leszek Labeledzki, ISBN: 978-953-307-251-7, Publisher: InTech, Publishing date: March 2011.
- WANG Q-X and Otsubo K., (2005) Desertification in China, in Land Cover and Land Use, edited by Willy H. Verheye, in Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, EOLSS Publishers, Oxford, UK, [<http://www.eolss.net>].

WANG, Q-X, K. Otsubo (2002). A GIS based study on grassland degradation and increase of dust storm in China. In: Fundamental Issues Affecting Sustainability of the Mongolian Steppe (edited by T. Chuluun and D.Ojima), Interpress. IISNC, Ulaanbaatar, Mongolia. pp.110-115

WANG, Q-X, K. OTSUBO (2001). "Relationship between Agricultural Land Use Change and Socioeconomic Factors in North-East China in Recent Decades" (in English). In: "Land Use and Cover Change". R.B. Singh, Jefferson Fox, and Y. Himiyama (eds.), Science Publishers, INC. ENFIELD, USA, pp.239-246.

WANG, Q-X (1993). "Chaotic and Holographic Features in the Changes of Droughts and Floods in China", In: "Climate Change, Natural Disasters and Agricultural Strategies", China Meteorological Press, Beijing: 297-300

劉昌明、王勤学 (2002) 黄河下流域における断流と塩類化の問題、(日本語)「地球環境ハンドブック」朝倉書店

王勤学、鄭泰根 訳 (2000) 「地球環境の再生」(日本語→中国語) 田村三郎著、中国科学技术出版社、中国・北京

封志明、王勤学 著 (1994) 「資源科学論綱」(中国語) 地震出版社、中国・北京

王勤学 副編集 (1992) 「資源、環境と農業発展」(中国語) 中国自然資源研究会青年協会編 中国科学技术出版社、中国・北京

王勤学 副編集 (1992) 「海峡兩岸の資源、環境と持続的発展」(中国語) 中国自然資源研究会青年協会編 中国科学技术出版社、中国・北京

## 国際学会における研究発表

Wang Q-X. (2010) Development of a system for evaluation of water and material cycles in a catchment ecosystem in East Asia. Hydrology Conference 2010 - The Changing Physical and Social Environment: Hydrologic Impacts and Feedbacks, Abstracts, O3.1

Wang Q-X. (2010) Development of an evaluation model for water and material cycles in catchments of East Asia. Global Water System Project (GWSP) GCI conference 2010

on: The Global Dimensions of Change in River Basins - Threats, Linkages and Adaptation, Abstracts, PS2-071

Wang Q-X., Xiao Q., Liu C. (2010) Carbon and nitrogen dynamics in the subtropical agricultural ecosystem in China. The Second International Symposium on Sustainable Agriculture for Subtropical Regions, Abstract, 115-116

Liu C., Wang Q-X. (2010) Anthropogenic influences on nitrogen flow and water environment in agro-ecosystems of Changjiang River Basin. The Second International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-2), Abstracts, 98

Wang Q-X., Wu T., Xiao Q., Watanabe M., Batkhishig O., Liu J-Y. (2010) Dynamics of permafrost distribution due to climate change in Mongolia. International Joint Conference by the CliC and IACS: Cryospheric Changes and Influences&#8212;Cryospheric Issues in Regional Sustainable Development, Abstracts, 25-28

Wu T., Wang Q-X., Zhao L. , Du E., Wang W., Xie C., Batkhishig O., Dorjgotov B., Watanabe M. (2010) Subsurface investigation of discontinuous permafrost in Mongolia using geophysical and conventional methods. International Joint Conference by the CliC and IACS: Cryospheric Changes and Influences&#8212;Cryospheric Issues in Regional Sustainable Development, Abstracts, 30

Ooba M., Murakami S., Wang Q-X. (2010) A biogeochemical forest model for evaluation of ecosystem services (BGC-ES) and its application for Yahagi river basin in Japan. 8th International Symposium on ECOHYDRAULICS (ISE 2010), Abstract Book, 785-786

Sun Z., Wang Q-X., Matsushita B., Fukushima T., Ouyang Z., Gebremichael M. (2009) A simple model for estimating evapotranspiration based solely on remote sensing: Algorithm and application. AGU 2009 Fall Meet., Abstracts, #H51B-0769

Ooba M., Murakami S., Wang Q-X., Kohata K. (2009) A Biogeochemical Forest Model for Evaluation of Ecosystem Services (BGC-ES) and its Applications. Asiaflux Workshop 2009, Proceedings, 117

Ooba M., Murakami S., Wang Q-X., Kohata K. (2009) AN EVALUATION OF FOREST ECOSYSTEM SERVICES IN THE ISE-BAY BASIN. INT.SYMP.AGRIC.METEOROL.(ISAM 2009), PROCEEDINGS, 75

WANG Q-X, WATANABE M., LIU J-Y., D. DORJGOTOV & O. BATKHISHIG. (2009) Early Detection of the Impact of Global Warming: Climate Changes and its Impacts on Ecosystem Services of East Asia. The 5th International Conference on Natural Resources and Sustainable Development in Surrounding Regions of the Mongolian Plateau. Hohhot, China, August 28-30, 2009.

Wu T-H, Wang Q-X, Batkhishig O., Dorjgotov B., Watanabe M.(2009). Detecting permafrost changes with ground penetrating radar in Mongolia. The 5th International Conference on Natural Resources and Sustainable Development in Surrounding Regions of the Mongolian Plateau. Hohhot, China, August 28-30, 2009.

WANG Q-X., WU T-H., WATANABE M., XIAO Q-A., BATKHISHIG O., LIU J-Y. (2009) EARLY DETECTION OF THE GLOBAL WARMING IMPACT ON PERMAFROST IN EAST ASIA. CLIMATE CHANGE CONGRESS 2009, IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE, 6(9), 092026-2PP

Ooba M., Wang Q-X., Murakami S., Kohata K. (2008) Evaluation of forest ecosystem services in the Ise-bay basin by using of a GIS-based biogeochemical model. Int.Symp.Agric.Meteorol.(ISAM 2008), Program

WANG Q-X. (2008) Early Detection of the Impact of Global Warming: Changes in Vegetation Productivities and Permafrost in East Asia Generated with MODIS Data. Proceedings of the International Conference on Natural Resources and Sustainable Development in Surrounding Regions of the Mongolian Plateau. Ulaanbaatar, Mongolia, September 11-13, 2008.

WU T-H, WANG Q-X, WATANABE M., (2008) Detecting permafrost degradation with ground penetrating radar at the pingo of Nalaikh, Mongolia. Proceedings of the International Conference on Natural Resources and Sustainable Development in Surrounding Regions of the Mongolian Plateau. Ulaanbaatar, Mongolia, September 11-13, 2008.

Hasi B., P.J Baruah, Wang Q-X, Yasuoka Y. (2007) “Cropland Area Extraction in China with Multi-Temporal MODIS Data”, 2007 AGU Fall Meeting. San Francisco, USA. Dec, 2007.

Hasi B., Wang Q-X, Yasuoka Y. (2007) “Land cover classification in China with MODIS time-series data”, 2007 JSPRS Fall Conference. Nagaoka, Japan. Oct, 2007.

Sun Z-G, Wang Q-X, Fukushima T., Matsushita B., Ouyang Z., Watanabe M. (2007) Definition of the VI-Ts diagram using subpixel information in a semiarid agricultural region. Annual conference of The Japan Society of Hydrology and Water Resources, Nagoya, Jul. 25-27, 2007.

WANG Q-X (2007). Establishment of an Early Detection and Assessment System Network for the Impacts of Global Warming in East Asia. The Third International Conference on Environment and Sustainable Development in the Mongolian Plateau and Surrounding Regions. Beijing, China, 26-27, Nov. 2007.

WANG Q-X (2007)“Evaluation Approaches for the Health of Rivers and Catchments—From Indicator Systems to Integrated Assessment Models”, Global Water System Project (GWSP) Session of the 3rd International Yellow River Forum, Dongying, Shandong, China. Oct 17th, 2007.

WANG Q-X, WATANABE M., LIU J-Y. (2007) Detecting the Impacts of Anthropogenic and Climatic Changes on Water, Carbon and Nitrogen Cycling of Ecosystems in Eastern Asia. International Conference on Long-Term Ecological Research. Beijing, China. 20-21 August 2007.

HASI B., WANG Q-X., YASUOKA Y., WATANABE M. (2006) SYNAERGETIC USE OF MODIS, ASTER/TM DATA FOR LAND COVER CLASSIFICATION IN ARID AND SEMI-ARID AREA OF NORTH CHINA. 27TH ASIAN CONF. REMOTE SENSING, Oct.9-13, 2006. Ulaanbaatar, Mongolia.

SUN Z-G, WANG Q-X, FUKUSHIMA T., MATSUSHITA B, OUYANG Z., WATANABE M.. (2006) Comparison of Retrieving Dry Edge Methods in VI-Ts Space Using ASTER Data in the North China Plain. Proceedings of Fifth Workshop on Remote Sensing of Hydrological Processes & Application, 49-55. Dec. 7, 2006, Chiba, Japan.

WANG Q-X., LIU C., XIAO Q. (2006). WATANABE M. (2006) MONITORING AND SIMULATING WATER, CARBON AND NITROGEN DYNAMICS OVER CATCHMENTS IN EASTERN ASIA. 2006 JT.ASSEM., ABSTRACTS(WEB) . 23-26 May 2006, Baltimore, Maryland, USA.

WANG Q-X., LIU C., XIAO Q., WATANABE M. (2006) EVALUATION OF WATER, CARBON AND NITROGEN DYNAMICS BY AN INTEGRATED HYDRO-ECOSYSTEM MODEL COUPLED WITH REMOTE-SENSING DATA AND GIS. 1ST CHINA-JPN.RIVER BASIN WATER ENVIRON.WORKSHOP, PROCEEDINGS. Jun. 2006, Wuhan, China.

WANG Q-X., LIU C., XIAO Q., WATANABE M. (2006) SIMULATION OF WATER, CARBON AND NITROGEN CYCLES OVER CHANGJIANG RIVER BASIN IN CHINA. ESSP 2006 OSC, CD-ROM. 9-12 November 2006, Beijing, China.

SUN Z-G, WANG Q-X, WATANABE M., MATSUSHITA B. and FUKUSHIMA T., A Simple Remote Sensing Evapotranspiration Model based on Energy Balance and Aerodynamics (Sim-RESET), The 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS), Oct. 17-19, 2005, International Conference Center, Beijing, China.

WANG Q-X, WATANABE, M.. SIMULATION OF WATER AND CARBON FLUXES USING BIOME-BGC OVER VARIOUS ECOSYSTEMS IN CHINA. Proceedings of the 7th International CO2 Conference, September 25th-30th, 2005, Colorado, USA.

Wang Q-X, WATER AND CARBON DYNAMICS OVER VARIOUS ECOSYSTEMS IN EASTERN ASIA. International Conference on natural resources and sustainable development in surrounding regions of the Mongolian Plateau. Aug. 22-24, 2005, ULAANBAATAR, MONGOLIA.

WANG Q-X, WATANABE M. et al. Simulation of Water and Carbon Fluxes in China using BIOME-BGC Model. International Workshop on Flux Observation and Research in Asia. ChinaFLUX and AsiaFlux. December 6-9, 2004, Beijing, China.

- WANG Q-X, WATANABE M. et al. Water, Heat and CO<sub>2</sub> Transferring over Various Ecosystems in China based on APEIS-Flux Data. Asia-Pacific Environmental Innovation Strategy (APEIS) 3rd Integrated Environmental Monitoring (IEM) Workshop, 9 - 11 December 2004, Singapore
- WANG Q-X, WATANABE M. AND OUYANG Z. Simulation of Water and Carbon Fluxes using BIOME-BGC Model over a Rotational Cropland in the North China Plain. Proc. Of Symposium of Carbon Cycle and Carbon Management in China. November, 2004 Beijing, China
- WANG Q-X, WATANABE M. et al. 2004: Simulation of Water and Carbon Fluxes using a Modified BIOME-BGC, MODIS Workshop II, August 17 - 19, 2004, Missoula, Montana, USA .
- WANG Q-X, WATANABE M. et al. Validation of MODIS LAI product in Asia-Pacific region based on the APEIS-FLUX Measurements. The 13th Annual Conference of Chinese Ecological Research Network (CERN), March 27-31, 2004, Changsha, China
- WANG, Q-X. Simulation of irrigation effect on water, heat and CO<sub>2</sub> fluxes in North China Plain. International Workshop on Flux Observation Research in Asia, December 1, 2003, Beijing, China
- WANG, Q-X, WATANABE M. et al. Water, Heat and CO<sub>2</sub> Transferring over Various Ecosystems in China based on APEIS-Flux Data. Proceedings of the Second APEIS Capacity Building Workshop on Integrated Environmental Monitoring of Asia-Pacific Region, November 27-28, 2003, Sydney, Australia
- WANG, Q-X, WATANABE M. et al. Water, Heat and CO<sub>2</sub> Transferring over Various Ecosystems. Proceedings of the First APEIS Capacity Building Workshop on Integrated Environmental Monitoring of Asia-Pacific Region, 20-21 September 2002, Beijing, China.
- WANG, Q-X, K. OTSUBO, Akio BITO, Tomoki NAKAYA, Yoh SHIMIZU, and T. ICHINOSE: Global Change Open Science Conference (IGBP), Jul. 10-13, 2001, Amsterdam, The Netherlands. "Future Balance of Grain Production and Consumption in China by GIS Techniques".

- WANG, Q-X, K. OTSUBO: Global Change Open Science Conference (IGBP), Jul. 10-13, 2001, Amsterdam, the Netherlands. "A GIS-Based Approach to Evaluate Possible Increase of Crop Production in Northern and Northeastern China".
- WANG, Q-X, K. OTSUBO: "A GIS based study on grassland degradation and increase of dust storm in China". Open Symposium on "Change and Sustainability of Pastoral Land Use Systems in East and Central Asia", June 28 - July 1, 2001, Ulaanbaatar, Mongolia,
- Xiaoping XIN, K. OTSUBO: WANG, Q-X: Open Symposium on "Change and Sustainability of Pastoral Land Use Systems in East and Central Asia", June 28 - July 1, 2001, Ulaanbaatar, Mongolia, "Modeling of climate change impact on grassland productivity in Northern China".
- WANG, Q-X. and K. Otsubo. "Urban Expansion in China During last Two Decades". 29th International Geographical Congress. Aug. 14-18, 2000, Seoul, Korea.
- WANG, Q-X, H. Takahashi et al. "Estimation of Evapotranspiration on a Hilly Land in the Loess Plateau, China – A Case Study in Ansai County, Shanxi Province" (in English). In: "Can Biological Production Harmonize with Environmental? – Reports from Research Sites in Asia", Proceedings of International Symposium held on Oct. 19-20, 1999 at the United Nations University, Tokyo, Japan. 381-384.
- Takahashi, H., WANG, Q-X, et al. "Local and Micro Climates of Hilly Land in the Loess Plateau, China" (in English). In: "Can Biological Production Harmonize with Environmental? – Reports from Research Sites in Asia", Proceedings of International Symposium held on Oct. 19-20, 1999 at the United Nations University, Tokyo, Japan. 377-380.
- WANG, Q-X, and K. Otsubo. "Digital Map Set Available for Diagnosis on Potential Land Productivity in North-East China". Second IGBP Congress. 7-13 May 1999, Shonan Village, Japan.
- WANG, Q-X, and Y. Himiyama. "GPS-GIS-RS Integration for the Study of Land Use/Cover Change". 1999 Open Meeting of the Human Dimensions of Global Environmental Change Research Community. 24-26 Jun. 1999, Shonan Village, Japan.

WANG, Q-X. and K. Otsubo. "Relationship between Agricultural Land-use Change and Socioeconomic Factors in North-East China in Recent Decades". IGU-LUCC'99 Open International Symposium on Land Use/Cover Change. 10-13 Jul. 1999, Honolulu, Hawaii, USA.

WANG, Q-X and H. Takahashi. "Sensitivity of Desertification Effect on Land-surface Water Deficit in Arid and Semi-arid Region --- A Case Study of the Loess Plateau, China". In: "Proceedings of the Open IGBP/BAHC-LUCC Joint Inter-Core Projects Symposium on Interactions Between the Hydrological Cycle and Land Use/Cover". Kyoto, Japan: 232-235.

WANG, Q-X. and H. Takahashi. "A Regional Land-Surface Water Deficit Model for the Loess Plateau, China --- Simulating the Impact of Desertification". In: "Preprint Volume of Second International Scientific Conference on the Global Energy and Scientific Conference on the Global Energy and Water Cycle", GEWEX/WCRP. Washington, DC, USA: 107-115

大場真, 村上正吾, 水落元之, 王勤学, 木幡邦男 (2011) 流域圏レベルにおける森林生態系サービス生産・消費評価. 日本生態学会第 58 回全国大会, 同大会講演要旨集

大場真, 村上正吾, 王勤学 (2010) 森林生態系サービスの発生・消費ネットワークの解明: 矢作川流域圏におけるケーススタディ. 第 57 回日本生態学会大会(ESJ 57), 同講演要旨, P3-189

大場真, 村上正吾, 王勤学, 木幡邦男 (2010) 伊勢湾流域圏における森林生態系サービスの生産・消費の推定. 社団法人環境科学会 2010 年会, 同プログラム, 4

王勤学 (2009) MODIS 衛星データを用いた中国の土地被覆類型別の炭素固定量算定. 環境科学会 2009 年会, 同講演予稿集, 144

大場真, 王勤学, 村上正吾, 中根英昭 (2009) 自然共生を理解する新しい枠組み. 環境科学会 2009 年会, 同講演予稿集, 6-7

大場真, 王勤学, 村上正吾, 木幡邦男, 若林太一, 島田沢彦 (2009) 森林物質循環モデルを用いた伊勢湾流域圏における森林生態系サービス評価の試み. 農業環境工学関連学会 2009 年合同大会, 同予稿集, B44

- 大場真, 村上正吾, 王勤学, 木幡邦男 (2009) 流域圏生態系サービス解明のための森林物質循環モデル:CN-ISE. 第 56 回日本生態学会大会(ESJ 56), 同講演要旨集, 222
- ハスバカン, 王勤学, 安岡善文 (2007)“MODIS 時系列データによる中国の土地被覆分類”, 日本写真測量学会. 平成 19 年度秋季学術講演会. 平成 19 年 10 月 31 日-11 月 2 日.
- 王勤学・劉晨・水落元之・肖慶安、(2007) 流域水物質循環モデルによるシミュレーションーワイ河流域を例として. 水文・水資源学会 2007 年度研究発表会. 名古屋、2007 年 7 月 25-27 日.
- 劉晨・王勤学・水落元之・楊永輝. (2007) 現地調査による中国における人間生活が窒素フローに及ぼす影響の解明. システム農学会. 京都, 2007 年 5 月 25 日.
- 五十嵐弘道, 王勤学, 大坪国順, 辛曉平, 中国・日本における黄砂現象の長期変動について, 日本気象学会年度春季大会 (つくば 2003.5), 同講演予稿集, 83
- 劉 晨・王 勤学・一ノ瀬俊明・大坪国順: 市場経済導入初期における中国国内人口移動の空間分布及び要因分析. 日本地理学会 2003 年度春季学術大会 (岡山 2003.5), 要旨集, (61):77

## 専門学術集会等における招聘発表

- WANG Q-X (2007) "EVALUATION OF WATER AND MATTER RECYCLING SYSTEM AND RIVER HEALTH". YANGTZE FORUM. CHANGSHA, CHINA. 30 MARCH 2007.
- WANG Q-X, XIAO Q-A, LIU C, AND WATANABE M. (2006). IMPACTS OF LAND USE/COVER CHANGE ON WATER VAPOR, CARBON AND NITROGEN DYNAMICS IN CHINA. 2ND EAFES INTERNATIONAL CONGRESS, TOKI MESSE, NIIGATA, JAPAN, MARCH 25 - 28, 2006.
- WANG Q-X, NAKAYAMA T., AND WATANABE M. (2005), Simulation of Water, Carbon and Nitrogen Dynamics over Watersheds. GWSP Asia Meeting, August 29-31, 2005, Kyoto, Japan.

- WANG, Q-X, K. OTSUBO (2001). Open Symposium on "Change and Sustainability of Pastoral Land Use Systems in East and Central Asia", June 28 - July 1, 2001, Ulaanbaatar, Mongolia,
- WANG, Q-X, K. OTSUBO and T. ICHINOSE (2000): "Digital Map Sets for Evaluation of Land Productivity" Global Mapping Forum 2000, Nov. 30, 2000. Hiroshima, Japan.
- 大場真, 村上正吾, 王勤学 (2010) 伊勢湾流域圏における森林生態系サービスの生産・消費の推定. 「伊勢湾流域圏の自然共生型環境管理技術開発」平成 21 年度研究成果報告会, 同プログラム・要旨集
- 王勤学 (2010) 東アジアの気候・環境変動、長期見通しと 安定化への取組み、「緑のアジア大陸の再生を目指して」共同フォーラム、JICA 横浜国際センター、2010 年 2 月 13 日.
- 王勤学. 流域圏水・物質循環評価システムの開発に関する研究. "第 4 回日中水環境技術検討会", 2010 年 9 月、日本・つくば
- 王勤学. 流域圏水物質循環評価システムの開発及び漢江流域への応用. "第 3 回日中水環境技術検討会", 2009 年 11 月、中国・武漢
- 大場真, 村上正吾, 王勤学 (2009) 伊勢湾流域圏における森林生態系サービス定量化の試み. 平成 20 年度「文科省科学技術振興調整費: 伊勢湾流域圏の自然共生型環境管理技術開発」研究成果報告会, 同要旨集
- 王勤学、水落元之、村上正吾 (2009). 流域圏水物質循環評価システムの構築—中国・淮河流域での適用. "水循環と河川の健康"中日学術検討会、2009 年 11 月、日本・仙台
- 王勤学 (2007) 水環境保全及び生態系修復技術の評価システム—南水北調の供水域ある漢江流域への展開. "第 2 回日中水環境技術検討会", 2007 年 5 月、日本・つくば
- 王勤学、劉晨、水落元之、肖慶安(2007). 流域水・物質循環評価モデルによる影響評価—淮河流域を例として. "水循環と河川の健康"中日学術検討会、2007 年 1 月、中国・北京
- 王勤学. 流域圏水物質循環評価システムの開発及び漢江流域への応用. "第 1 回日中水環境技術検討会", 2006 年 6 月、中国・武漢

## NIES 刊行物

- 王勤学(2008): 東アジアにおける持続可能な水環境管理手法の開発—中核プロジェクト「東アジアの水・物質循環評価システムの開発」の概要—、国立環境研究所ニュース、27(2) (2008年6月発行)、pp3-6.
- 王勤学(2006): アジア水環境研究の新しい展開へ向けて—長江水利委員会との新たな共同研究の開始—、国立環境研究所ニュース、25(3) (2006年8月発行)、pp10-11.
- 王勤学(2005): 衛星と地上モニタリング及びモデルによる陸域生態系の水・物質循環機能のシミュレーション、国立環境研究所ニュース 24(4) (2005年10月発行)、pp3-7.
- 王勤学分担(2008): 東アジアの水・物質循環評価システムの開発. アジア自然共生研究プログラム(中間報告)平成18~19年度. 国立環境研究所特別研究報告 SR-85-2008, pp 20-41.
- 王勤学分担(2006): 流域生態系の水・物質循環機能の観測及び評価. 東アジア流域圏における生態系機能のモデル化と持続可能な環境管理プロジェクト(終了報告)平成13~17年度(94P.)国立環境研究所特別研究報告 SR-73-2006, pp3-8.
- WANG, Q-X. and K. Otsubo(2002). Changes in Area and Quality of Cultivated Land in China. In. Study on the Processes and Impact of Land-Use Change in China (edited by K. Otsubo), CGER-REPORT, CGER-1053-2002, pp.99-107
- WANG, Q-X. and K. Otsubo(2002). Urban Expansion in China During the last Two Decades. In. Study on the Processes and Impact of Land-Use Change in China (edited by K. Otsubo), CGER-REPORT, CGER-1053-2002, pp. 107-114.
- WANG, Q-X. and K. Otsubo(2002). Digital Database for Diagnostic Analysis of the Environment in Northern and Northeastern China. In. Study on the Processes and Impact of Land-Use Change in China (edited by K. Otsubo), CGER-REPORT, CGER-1053-2002, pp. 147-158.
- Xin X.-P, K. Otsubo and WANG, Q-X(2002). Modeling of Productivity of Grassland in Northern China and its Application for Impact Assessment of Climate Change. In.

Study on the Processes and Impact of Land-Use Change in China (edited by K. Otsubo), CGER-REPORT, CGER-1053-2002, pp. 159-170.

王勤学・尾藤章雄・近藤昭彦・大坪国順(2001).中国主要穀物生産量の将来予測、LU/GECプロジェクト報告書 VII, 大坪国順編、CGER-REPORT, CGER-1048-2001, pp. 23-32.

王勤学・尾藤章雄・近藤昭彦・大坪国順・中谷友樹・清水庸(2001):20-kmグリッドスケールでの中国の食糧需給量バランスの現況と将来予測、LU/GECプロジェクト報告書 VII, 大坪国順編、CGER-REPORT, CGER-1048-2001, pp. 53-62.

WANG, Q-X, K. OTSUBO and T. ICHINOSE(2000): Studies on Supply and Demand Balance of Grain in China. CGER-REPORT, CGER-I042-2000: p16-21.

T. ICHINOSE, WANG, Q-X and K. OTSUBO(2000). Development of Grain Transportation Model based on Food Balance and Economic Difference in China. CGER-REPORT, CGER-I042-2000: p22-28.

WANG, Q-X, and K. OTSUBO(2000).Distribution of Convertible Arable Land in China viewed from Natural Ecological Conditions. CGER-REPORT, CGER-I042-2000: p29-35.

WANG, Q-X, K. OTSUBO and Yukio HIMIYAMA(2000). Relationship between Agricultural Land-use Change and Socioeconomic Factors in North-East China. CGER-REPORT, CGER-I042-2000: p109-113.

WANG, Q-X, and K. OTSUBO(2000).Increase of Dust Strom and Land Use Change in China. CGER-REPORT, CGER-I042-2000: p253-260.

WANG, Q-X, and K. OTSUBO(2000). Estimation of Potential Land Productivity in North and Northeast China by GIS. CGER-REPORT, CGER-I042-2000: p268-275.

WANG, Q-X, and Y. Himiyama(1999).Digital Map set Available for the Estimate of Potential Land Productivity in North-East China. CGER-REPORT, CGER-I038-'99: p153-157.