

CURICULLUM VITAE

Takashi Kosaki

Professor

Department of Tourism Science
Graduate School of Urban Environmental Sciences
Tokyo Metropolitan Univeristy
1-1 Minami-Osawa, Hachioji, Tokyo 192-0397, Japan
Phone: +81-42-677-2623 Email: kosakit8@tmu.ac.jp



EDUCATION

- Mar-1975 **Bachelor of Agriculture (Agricultural Chemistry)**
Kyoto University, Kyoto, Japan
- Aug-1975 to Jul-1976 **MS program (Department of Soil Science) as exchange student sent by Ministry of Education, Government of Japan**
University of Wisconsin-Madison, Wisconsin, USA
- Mar-1977 **Master of Agriculture (Agricultural Chemistry)**
Kyoto University, Kyoto, Japan
- Jan-1982 **Doctor of Agriculture (Soil Science)**
Kyoto University, Kyoto, Japan

PROFESSIONAL EXPERIENCE

- Aug-1981 to Mar-1985 **Assistant Professor**
Faculty of Agriculture, Kyoto University, Kyoto, Japan
- Jan-1982 to Mar-1985 **Research Scientist**
International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria
- Apr-1985 to Mar-1990 **Assistant Professor**
Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan
- Apr-1990 to Mar-1994 **Associate Professor**
Faculty of Agriculture, Kyoto University, Kyoto, Japan
- Apr-1994 to Mar-2008 **Professor**
Graduate School of Agriculture, Kyoto University, Kyoto, Japan
- Sep-1997 to Oct-1997 **Visiting Scientist** (supported by Japan Society for the Promotion of Science (JSPS))
Research Institute for Soil Science and Agricultural Chemistry of the Hungarian Academy of Sciences, Budapest, Hungary
- Jul-1998 to Aug-1998 **Visiting Scientist** (ditto)
Department of Soil Science, University of Saskatchewan, Saskatoon, Canada
- Sep-1999 to Oct-1999 **Visiting Scientist** (ditto)
Department of Soil Science, University of Adelaide, Adelaide, Australia
- Sep-2001 to Oct-2001 **Visiting Scientist** (ditto)
Faculty of Agriculture and Applied Biological Science, Ghent Univerity, Ghent, Belgium

Apr-2002 to Mar-2008	Professor (concurrently appointed) Graduate School of Global Environmental Studies, Kyoto University, Kyoto, Japan
Jun-2003 to Jul-2003	Visiting Scientist (supported by JSPS) V.V. Dokuchaev Central Soil Museum, St. Petersburg, Russia
Oct-2004 to Nov-2004	Visiting Scientist (ditto) College of Agronomy, University of Buenos Aires, Buenos Aires, Argentina
Apr-2008 to present	Professor Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Tokyo, Japan Emeritus Professor Kyoto University, Kyoto, Japan
Jul-2016 to Oct-2016	Visiting Professor (supported by Research Council of Norway) Norwegian University of Life Sciences, Ås, Norway

AWARDS RECEIVED

Apr-1989	Encouragement Award of Japanese Society of Soil Science and Plant Nutrition
Apr-2006	Best Paper Award of <i>Soil Science and Plant Nutrition</i>
Apr-2007	Best Paper Award , Japanese Society of Pedology
Apr-2009	Best Paper Award , Japanese Society of Pedology
Apr-2010	Japanese Society of Soil Science and Plant Nutrition Award
Apr-2010	Best Paper Award of <i>Soil Science and Plant Nutrition</i>
Jun-2010	Honorable Mention Paper Award , American Society of Agricultural and Biological Engineers
Apr-2013	Best Paper Award of <i>Japanese Journal of Soil Science and Plant Nutrition</i>
Apr-2013	Best Paper Award of <i>Soil Science and Plant Nutrition</i>
Jun-2014	Award of Excellence , The First International Soil Judging Contest

RESEARCH GRANTS

- Graduate Student Scholarship, Japan Student Scholarship Service. (1975-1980, \$10,000)
- Exchange Student Scholarship, Ministry of Education, Government of Japan (1975-1976, \$5,000)
- Development of the method of crop yield determining factors: JSPS Grants-in-Aid for Scientific Research (1986, \$10,000)
- Spatial and temporal variation of soil and plant nutrient status under upland farming: JSPS Grants-in-Aid for Scientific Research (1988, \$9,000)
- Development of crop production environment monitoring system: JSPS Grants-in-Aid for Scientific Research (1989, \$7,000)
- Soil mineralogy of arable land in the tropics and its contribution to soil productivity: JSPS Grants-in-Aid for Scientific Research (1991-1993, \$55,000)
- Development of comprehensive environmental data processing system for multi-purpose land evaluation: JSPS Grants-in-Aid for Scientific Research (1994-1995, \$18,000)
- Development of the methodology for internet-based soil resources information management systems (Soil Net Japan): JSPS Grants-in-Aid for Scientific Research (1996-1997, \$160,000)

- Strategy of environment-friendly agricultural development under steppe ecosystems in Central Asia: Foundation for Advanced Studies on International Development (1996, \$38,000)
- Pedometrics-based four-dimensional evaluation of nitrogen pollution in agricultural land: JSPS Grants-in-Aid for Scientific Research (1998-1999, \$110,000)
- Soil organic matter dynamics in the Eurasian steppes: JSPS Grants-in-Aid for Scientific Research (2001-2003, \$130,000)
- Mechanism and prediction of soil degradation based on soil monolith archives: Sumitomo Foundation (2004-2006, \$30,000)
- Proposal of appropriate land use based on soil carbon dynamics modeling in humid tropics: JSPS Grants-in-Aid for Scientific Research (2005-2007, \$300,000)
- Geostatistical analysis of soil organic matter dynamics in cold regions in Eurasia: JSPS Grants-in-Aid for Scientific Research (2006-2007, \$120,000)
- Development of virtual museum “Soil: The Wonderland”: JSPS Grants-in-Aid for Scientific Research (2006-2007, \$19,000)
- Rehabilitation of land degraded in the context of global environmental issues: Tokyo Metropolitan University (2009-2011, \$120,000)
- New paradigm for constructing environment-friendly megacity based on proper land use strategy: Tokyo Metropolitan University (2012-2014, \$100,000)
- Development and dissemination of surface soil management technique as a tool for combating natural and man-made disaster in the Sahel, West Africa: Mitsui & Co., Ltd. Environmental Fund (2012-2014, \$47,000)
- Stress factors in soil organic matter dynamics and their wise use for sustainable agriculture in humid regions: JSPS Grants-in-Aid for Scientific Research (2008-2011, \$442,000)
- Analysis and use of spatial and temporal heterogeneity for sustaining soil fertility under indigenous farming system in Sub-Sahara in Tropical Africa: JSPS Grants-in-Aid for Scientific Research (2009-2011, \$180,000)
- Development of eco-tourism as a tool for participatory environmental education: JSPS Grants-in-Aid for Scientific Research (2011-2013, \$32,000)
- Spatial and temporal modeling of the nutrient cycling in upland crop farming systems in Sub-Sahara, West Africa: JSPS Grants-in-Aid for Scientific Research (2012-2016, \$400,000)
- Risk assessment of radioactive Cs pollution of crops based on its behavior in soil-plant system: JSPS Grants-in-Aid for Scientific Research (2014-2018, \$390,000)

TEACHING RESPONSIBILITIES

- Soil Science
- Soil Geography
- Tropical Soil Science
- Global Resources and Ecosystems Management
- Terrestrial Ecosystems Management
- Environmental Ecology
- Physical Geography
- Experimental Design
- Environmental Data Processing
- Nature-based Tourism Science

RESEARCH EXPERIENCE

- **Soil genesis and classification:**
 - (i) *Soil forming factors and processes*; acidification, volcanic materials, paddy-based land use in East and Southeast Asia.
 - (ii) *Classification*; diagnostic horizons and taxonomic unit associated with rice cultivation and volcanic activities.
- **Soil information systems:**
 - (i) *Structure of efficient soil data management systems*; methodologies in standardization, analogue-digital conversion, storage and retrieval, GIS.
 - (ii) *Communication tools*; use of web-internet, cloud, mobile terminals.
- **Soil fertility and land capability/suitability evaluation:**
 - (i) *Multivariate statistical analysis*; extraction of controlling factors, quantification, rating, grouping.
 - (ii) *Integration with legacy data*; soil map, long-term experiment, soil testing data.
- **Soil variations in time and space:**
 - (i) *Causes of variation*; natural vs. artificial, pedometrics, geostatistics.
 - (ii) *Prediction*; monitoring, pedo-transfer functions and precision agriculture.
- **Land and soil degradation, remediation and reclamation (based on the above):**
 - (i) *Mechanism*; salinization, soil carbon decline, GHG emission, erosion, pollution (heavy metals and radio-active nuclei), deforestation, shifting cultivation, mechanization, irrigation and drainage, urbanization
 - (ii) *Remediation and conservation*; crop and land management, nutrient cycling, soil moisture and temperature regimes
 - (iii) *Technology transfer*; Africa, Asia, Latin America, on-farm trials, collaboration of urban and rural communities, socio-economic aspects, human security.
- **Soil and environmental education:**
 - (i) *Contents*; fauna, flora, minerals, disaster, good practices
 - (ii) *Tools*; museum, field day, eco-tourism
 - (iii) *Philosophy*; land ethics, religion, corporate social responsibility and holistic approach.

PROFESSIONAL AFFILIATIONS AND SERVICES

- Japanese Society of Soil Science and Plant Nutrition
(**President**; 2013 to 2014, **Vice-President**; 2010-2012, **Chair** of Division 6; 2006-2008, **Chair** of Division 5; 1998-2000)
- Japanese Society of Pedology
(**Honorary Member**; 2013-present, **President**; 2010-2013)
- The Japan Society of Tropical Ecology
- International Union of Soil Sciences (IUSS)
(**Chair** of Division 3; 2015-present, **Vice-Chair** of Commission 3.5; 2008 to 2014)
- Soil Science Society of America
- *Soil Science and Plant Nutrition Journal*
(**Editor-in-Chief**; 1996-1997, Editor; 1996-2000 and 2006-2009)
- *Japanese Journal of Soil Science and Plant Nutrition Journal*
(**Editor-in-Chief**; 2008-2009)
- *Pedologist Journal*

(**Editor-in-Chief**; 2004-2006)

- *Applied and Environmental Soil Science* on-line journal
(**Editorial Board**; 2006-present)

PUBLICATIONS

Books

- 1 Kosaki, T. and Watanabe, K. (Eds.) 2008: Evaluation and management of soil fertility. Hakuyusha Publishing Co., Ltd., Tokyo, 150p. (in Japanese)
- 2 Kosaki, T. (Ed.) 2010: Challenges to Soil Degradation Towards Sustaining Life and Environment. Special Issue of *Pedologist.*, Japanese Society of Pedology, Tsukuba, Japan, 142p. (published under the auspices of IUSS)
- 3 Naidu, R., Bolan, N., and Kosaki, T. (Eds.) 2011: Soil Degradation Control, Remediation, and Reclamation. Special Issue of *Pedologist.*, Japanese Society of Pedology, Tsukuba, Japan, 170p. (published under the auspices of IUSS)
- 4 Kosaki, T., Gicheru, P., and Sakurai, K. (Eds.) 2012: Land Degradation and Pedology and Land Degradation and Management. Special Issue of *Pedologist.*, Japanese Society of Pedology, Tsukuba, Japan, 174p. (published under the auspices of IUSS)
- 5 Gicheru, P., Kosaki, T., Horn, R., and Senesi, N. (Eds.) 2014: Soil and Land Degradation. Special Issue of *Soil Science and Plant Nutrition*, Taylor & Francis, Singapore, 122p. (published under the auspices of IUSS)
- 6 Kosaki, T. and Gabriels, D. (Eds) 2015: Special Issue: Desertification and Land Degradation (DesertLand I). Special Section of *Soil Science and Plant Nutrition*, Taylor and Francis, Singapore, 61p. (published under the auspices of IUSS)
- 7 Kosaki, T. (Ed.) 2015: What is happening with soils now? Rural Culture Association, Tokyo, 128p (in Japanese)
- 8 Morel, J.L., Kosaki, T., Watanabe, M., and Kawahigashi, M. (Eds.) 2015: Soils of Anthropized Environments. Supplementary Issue of *Soil Science and Plant Nutrition*, Taylor and Francis, Singapore, 152p. (published under the auspices of IUSS)

Refereed International Journals

- 1 Kosaki, T., Furukawa, H. and Kyuma, K. 1981: Computer-based soil data management system (COSMAS). I. Collection, storage and retrieval of soil survey data., *Soil Sci. Plant Nutr.*, 27, 429-441
- 2 Kosaki, T., Furukawa, H. and Kyuma, K. 1981: Computer-based soil data management system (COSMAS). II. Graphic representation of soil survey data., *Soil Sci. Plant Nutr.*, 27, 443-453
- 3 Kosaki, T., Torii, K. and Kyuma, K. 1982: Automated soil map compilation., *Soil Sci. Plant Nutr.*, 28, 389-399
- 4 Kosaki, T., Yoshida, F. and Kyuma, K. 1983: Numerical approach to soil material classification. I. Soil material class establishment., *Soil Sci. Plant Nutr.*, 29, 25-35
- 5 Kosaki, T., Yoshida, F. and Kyuma, K. 1983: Numerical approach to soil material classification. II. Sample allocation., *Soil Sci. Plant Nutr.*, 29, 37-45
- 6 Kosaki, T. and Juo, A.S.R. 1989: Multivariate approach to grouping soils in small fields. I. Extraction of factors causing soil variation by principal component analysis., *Soil Sci. Plant Nutr.*, 35, 469-477

- 7 Kosaki, T. and Juo, A.S.R. 1989: Multivariate approach to grouping soils in small fields. II. Soil grouping technique by cluster analysis., *Soil Sci. Plant Nutr.*, 35, 517-525
- 8 Kosaki, T., Wasano, K. and Juo, A.S.R. 1989: Multivariate statistical analysis of yield-determining factors., *Soil Sci. Plant Nutr.*, 35, 597-607
- 9 Yanai, J., Linehan, D., Robinson, D., Young, I., Hackett, C., Kyuma, K. and Kosaki, T. 1996: Effects of inorganic nitrogen application on the dynamics of the soil solution composition in the root zone of maize., *Plant and Soil*, 180, 1-9
- 10 Issaka, R. N., Masunaga, T., Kosaki, T. and Wakatsuki, T. 1996: Soils of inland Valleys of West Africa: General fertility parameters: General fertility parameters., *Soil Sci.Plant Nutr.*, 42, 71-80
- 11 Itami, K., Kosaki, T. and Kyuma, K. 1996: Evaluation of relationship between dispersibility of soils and charge characteristics using a modified ion adsorption method; An example of soils from Wakayama Prefecture, Japan. *Soil Sci. Plant Nutr.*, 42, 521-530
- 12 Itami, K., Kitagawa, Y., Kyuma, K. and Kosaki, T. 1996: Effects of removal of free oxides on changes in dispersibility and charge characteristics of soils. *Soil Sci. Plant Nutr.*, 42, 593-602
- 13 Itami, K., Kyuma, K. and Kosaki, T. 1996: Effect of addition of Al hydroxides on changes in dispersibility and charge characteristics of soils. *Soil Sci. Plant Nutr.*, 42, 627-635
- 14 Funakawa, S., Kosaki, T., Suzuki, R., Ishida, N. 1996: Soil salinization under large-scale irrigated agriculture in Kazakhstan, *Journal of the Agricultural Engineering Society*, 64(10), 1017-1021 (in Japanese with English summary)
- 15 Kawata, A., Itami, K., Kyuma, K. and Kosaki, T. 1996: The effect of organic matter on dispersibility of clays –A case study Hikigawa reclaimed agricultural land, *Soil Physical Condition and Plant Growth*, 75, 31-38 (in Japanese with English summary)
- 16 Tanaka, U., Yokoi, Y., Kosaki, T. and Kyuma, K. 1997: Mechanisms and processes of crust formation on artificial aggregates; I. Effect of initial moisture condition on aggregate stability and crusting. *Soil Sci. Plant Nutr.*, 43, 99-107
- 17 Tanaka, U., Yokoi, Y., Kosaki, T. and Kyuma, K. 1997: Mechanisms and processes of crust formation on artificial aggregates; II. Effect of slaking and impact of rain drops on crusting under different moisture condition. *Soil Sci. Plant Nutr.*, 43,109-115
- 18 Yanai, J., Nakano, A., Kyuma, K. and Kosaki, T. 1997: Application effects of controlled-availability fertilizer on dynamics of soil solution composition. *Soil Sci. Soc. Am. J.* 61, 1781-1786
- 19 Tsujimura, S., Nakahara, H., Kosaki, T., Ishida, N. and Karbozova, E. 1998: Distribution of soil algae in salinized irrigation land in the arid regions of Central Asia. I. A case of 14-year-old Bereke Farm in the flood plain of the River Ili, Kazakhstan. *Soil Sci. Plant Nutr.*, 44(1), 53-65
- 20 Tsujimura, S., Nakahara, H., Kosaki, T., Ishida, N. and Karbozova, E. 1998: Distribution of soil algae in salinized irrigation land in the arid regions of Central Asia. II. A case of 25-year-old Bakbakty Farm in the flood plain of the River Ili, Kazakstan. *Soil Sci. Plant Nutr.*, 44(1), 67-76
- 21 Yanai, J., Yabutani, M., Kang, Y., Huang, B., Luo G. and Kosaki, T. 1998: Heavy metal pollution of agricultural soils and sediments in Liaoning Province, China. *Soil Sci. Plant Nutr.*, 44(3), 367-375
- 22 Kang, Y., Miura, T. and Kosaki, T. 1998: Influence of pH change on Cd leachability and chemical forms of contaminated soil., *Pedologist*, 42(1), 57-61
- 23 Kang, Y., Miura, T. and Kosaki, T. 1998: Effect of redox potential on Cd solubility and chemical forms of contaminated soil. *Pedologist*, 42(1), 62-66

- 24 Yanai, J., Robinson, D., Young, I.M., Kyuma, K. and Kosaki, T. 1998: Effects of the chemical form of inorganic nitrogen fertilizers on the dynamics of the soil solution composition and on nutrient uptake by wheat., *Plant and Soil*, 202, 263-270
- 25 Hiratta, M., Shinjo, H., Kitagawa, M., Ishida, J., Kosaki, T. and Miyazaki, A. 1999: Trends of livestock production by private farmers in Kazakhstan after independence. *Journal of Arid Land Studies*, 9(2), 125-134 (in Japanese with English summary)
- 26 Tanaka, U., Yokoi, Y., Kosaki, T. and Kyuma, K. 1999: Mechanisms and processes of crust formation on artificial aggregates; III. Relations between natural rainfall characteristics and degree of crusting. *Soil Sci. Plant Nutr.*, 45 (3), 537-549
- 27 Maeda, C., Tanaka, U., Sonoda, M., and Kosaki, T. 1999: Applicability of a combined staining method with fluorochromes for the visualization of microbial cells in a soil thin section, *Soil Sci. Plant Nutr.*, 45 (3), 745-750
- 28 Shinjo, H., Fujita, H., Gintzburger, G. and Kosaki, T. 2000: Impact of grazing and tillage on water erosion in Northeastern Syria, *Soil Sci. Plant Nutr.*, 46(1), 151-162
- 29 Shinjo, H., Fujita, H., Gintzburger, G. and Kosaki, T. 2000: Soil aggregate stability under different landscapes and vegetation types in a semiarid area in Northeastern Syria, *Soil Sci. Plant Nutr.*, 46(1), 229-240
- 30 Moritsuka, N., Yanai, J., and Kosaki, T. 2000: Effect of plant growth on the distribution and forms of soil nutrients in the rhizosphere. *Soil Sci. Plant Nutr.*, 46(2), 439-447
- 31 Yanai, J., Lee, C.K., Umeda, M., and Kosaki, T. 2000: Spatial variability of soil chemical properties in a paddy field., *Soil Sci. Plant Nutr.*, 46(2), 473-482
- 32 Moritsuka, N., Tanaka, U., Tsunoda, M., Mtakwa, P., and Kosaki, T. 2000: Significance of plant residue management under the Matengo Pit System in Mbinga District, Southern Tanzania. *Jpn. J. Trop. Agr.*, 44(2), 130-137
- 33 Yanai, J., Lee, C.K., Umeda, M. and Kosaki, T. 2000 : Spatial Variability of Soil Chemical Properties in a Paddy Field. *Jpn. J. Soil Science and Plant Nutr.*, 71(4), 520-529 (in Japanese with English summary)
- 34 Moritsuka, N., Yanai, J., and Kosaki, T. 2000: Non-destructive method for determining temporal and spatial changes of the soils solution chemistry in the rhizosphere. *Soil Sci. Plant Nutr.*, 46(3), 713-719
- 35 Funakawa, S., Suzuki, R., Karbozova, E., Kosaki, T., and Ishida, N. 2000: Salt-affected soils under rice-based agriculture in southern Kazakhstan. *Geoderma*, 97, 61-85
- 36 Mitsunaga, A., Yanai, J. and Kosaki, T. 2000: Analysis of the Factors Regulating Soil Maturation. *Jpn. J. Soil Science and Plant Nutr.*, 71(5), 666-673 (in Japanese with English summary)
- 37 Anwar, S., Kosaki, T., and Yonebayashi, K. 2001: Impregnation of peat soils using polyethylene glycol 4000 for the preparation of thin sections. *Soil Sci. Plant Nutr.*, 47(1), 79-86
- 38 Moritsuka, N., Yanai, J., and Kosaki, T. 2001: Effect of application of inorganic and organic fertilizers on the dynamics of soil nutrients in the rhizosphere. *Soil Sci. Plant Nutr.*, 47(1), 139-148
- 39 Ebato, M., Yonebayashi, K. and Kosaki, T. 2001: Predicting Freundlich adsorption isotherm of atrazine on Japanese soils. *Soil Sci. Plant Nutr.*, 47(2), 221-231
- 40 Yanai, J., Lee, C.K., Kaho, T., Iida, M., Matsui, T., Umeda, M. and Kosaki, T. 2001: Geostatistical analysis of soil chemical properties and rice yield in a paddy field and application to the analysis of yield-determining factors. *Soil Sci. Plant Nutr.*, 47 (2), 291-301.
- 41 Moritsuka, N., Yanai, J. and Kosaki, T. 2001: Effect of soil heating on the dynamics of soil available nutrients in the rhizosphere. *Soil Sci. Plant Nutr.*, 47(2), 323-331

- 42 Lee, C.K., Yanai, J., Kaho, T., Iida, M., Umeda, M. and Kosaki, T. 2001: Mapping of Field Information in a Paddy Field. *Journal of the Japanese Society of Agricultural Machinery*, 63(5), 45-52 (in Japanese with English summary)
- 43 Moritsuka, N., Yanai, J., and Kosaki, T. 2002: A sensitive method for detecting the depletion of nonexchangeable potassium in the rhizosphere using a sequential extraction with 0.01 molar hydrochloric acid. *Soil Sci. Plant Nutr.*, 48(4), 577-583
- 44 Yanai, J., Lee, C.K., Kaho, T., Iida, M., Matsui, T., Umeda, M. and Kosaki, T. 2002: Geostatistical Analysis of Soil Properties and Rice Yield in a Paddy Field and Application to the Analysis of Yield-Determining Factor. *Jpn. J. Soil Sci. Plant Nutr.*, 73(5), 477-484 (in Japanese with English summary)
- 45 Msaky, J.J., Tanaka, U., Mizuta, J., and Kosaki, T. 2002: Copper levels in soils treated with fungicides under traditional agroforestry (Kihamba) system in Moshi district, Tanzania. *Jpn. J. Trop. Agr.* 46(4), 230-238
- 46 Moritsuka, N., Yanai, J., Fujii, A, Sano, S. and Kosaki, T. 2003: Evaluation of readily available nonexchangeable potassium in soils by sequential extraction with 0.01 molar hydrochloric acid., *Soil Sci. Plant Nutr.*, 49(4), 631-136
- 47 Yanai, J., Sawamoto, T., Oe, T., Kusa, K., Yamakawa, K., Sakamoto, K., Naganawa, T., Inubushi, K., Hatano, R. and Kosaki, T. 2003: Spatial variability of N₂O emissions and their soil-related determining factors in an agricultural field. *J. Environ. Qual.*, 32, 1965-1977
- 48 Anwar, S., Kosaki, T. and Yonebayashi, K. 2004: Cupric oxide oxidation products of tropical peat soils. *Soil Sci. Plant Nutr.*, 50(1), 35-43
- 49 Moritsuka, N., Yanai, J. and Kosaki, T. 2004: Possible processes releasing nonexchangeable potassium from the rhizosphere of maize. *Plant and Soil*, 258, 261-268.
- 50 Moritsuka, N., Yanai, J., Mori, K. and Kosaki, T. 2004: Biotic and abiotic processes of nitrogen immobilization in the soil-residue interface, *Soil Biol. Biochem.* 36(7) 1141-1148
- 51 Yanai, J., Mabuchi, N., Moritsuka, N., and Kosaki, T. 2004: Distribution and forms of cadmium in the rhizosphere of Brassica juncea in Cd-contaminated soils and implications for phytoremediation. *Soil Sci. and Plant Nutr.*, 50(3), 423-430
- 52 Karbozova-Saljniov, E., Funakawa, S., Akhmetov, K. and Kosaki, T. 2004: Soil organic matter status of Chernozem soil in North Kazakhstan: effects of summer fallow. *Soil Biol. Biochem.*, 36(9), 1373-1381
- 53 Sano, S., Yanai, J. and Kosaki, T. 2004: Evaluation of soil nitrogen status in Japanese agricultural lands with reference to land use and soil types., *Soil Sci. Plant Nutr.*, 50(4), 501-510
- 54 Moritsuka, N., Yanai, J., Umeda, M. and Kosaki, T. 2004: Spatial relationships among different forms of soil nutrients in a paddy field., *Soil Sci. Plant Nutr.*, 50(4), 565-573
- 55 Funakawa, S., Nakamura, I., Akshalov, K. and Kosaki, T. 2004: Soil organic matter dynamics under grain farming in northern Kazakhstan. *Soil Sci. Plant. Nutr.*, 50(8), 1211-1218.
- 56 Funakawa, S., Nakamura, I., Akshalov, K. and Kosaki, T. 2004: Water dynamics in soil-plant systems under grain farming in northern Kazakhstan. *Soil Sci. Plant. Nutr.*, 50(8), 1219-1227
- 57 Yanai, J., Mishima, A., Funakawa, S., Akshalov, K. and Kosaki, T. 2005: Spatial variability of organic matter dynamics in the semi-arid cropland of Northern Kazakhstan. *Soil Sci. Plant. Nutr.*, 51(2), 261-269 **<Best Paper Award of Soil Science and Plant Nutrition in 2006>**
- 58 Mori, K., Shinjo, H., Kato, A., and Kosaki, T. 2005: Comparison of different soil classification systems using 5 profiles from different forest ecosystems in Japan, *Pedologist*, 49(1), 10-21 **<Best Paper Award of Japanese Society of Pedology in 2007>**

- 59 Hartono, A., Funakawa, S., and Kosaki, T. 2005: Phosphorus sorption-desorption characteristics of selected acid upland soils in Indonesia., *Soil Sci. Plant Nutr.*, 51(6), 787-799
- 60 Nakao, A., Yoshida, T., Ozaki, T., Ohnuki, T., Funakawa, S., and Kosaki, T. 2005: Cs accumulation behavior by *P. fluorescens.*, *J. Nuclear and Radiochemical Science*, 6(1), 109-112
- 61 Nishiyama, Y., Yanai, J., and Kosaki, T. 2005: Potential of *Thlaspi caerulescens* for cadmium phytoremediation: Comparison of two representative soil types in Japan under different planting frequencies., *Soil Sci. Plant Nutr.*, 51(6), 827-834
- 62 Yanai, J., Zhao, F-J., McGrath, S.P. and Kosaki, T. 2006: Effect of soil characteristics on Cd uptake by the hyperaccumulator *Thlaspi caerulescens.*, *Environmental Pollution*, 139, 167-175
- 63 Sano, S., Yanai, J. and Kosaki, T. 2006: Relationship between labile organic matter and nitrogen mineralization in Japanese agricultural soils with reference to land use and soil type., *Soil Sci. Plant Nutr.*, 52(1), 49-60
- 64 Funakawa, S., Hayashi, Y., Tazaki, I., Sawada, K., and Kosaki, T. 2006: The main functions of the fallow phase in shifting cultivation by the Karen people in northern Thailand - a quantitative analysis of soil organic matter dynamics., *Tropics*, 15(1), 1-27
- 65 Shinjo H., Kato, A., Fujii, K., Mori, K., Funakawa, S., and Kosaki, T. 2006: Carbon dioxide emission derived from soil organic matter decomposition and root respiration in Japanese forests under different ecological conditions., *Soil Sci. Plant Nutr.*, 52(2), 233-242
- 66 Funakawa, S., Nishiyama, Y., Kato, A., Kadono, A., and Kosaki, T. 2006: Temperature and moisture dependence of organic matter decomposition in soils from different environments, with special reference to the contribution of light - and heavy-fraction C., *Pedologist*, 50(1), 29-46
<Best Paper Award of Japanese Society of Pedology in 2009>
- 67 Hartono, A., Funakawa, S., and Kosaki, T. 2006: Transformation of added phosphorus to acid upland soils with different soil properties in Indonesia., *Soil Sci. Plant Nutr.*, 52(6), 734-744
- 68 Watanabe, T., Funakawa, S. and Kosaki, T. 2006: Clay mineralogy and its relationship to soil sorption composition in soils from different weathering environment of humid Asia: Japan, Thailand and Indonesia. *Geoderma*, 136, 51-63
- 69 Funakawa, S., Yanai, J., Hayashi, Y., Hayashi, T., Watanabe, T., Noichana, C., Panitkasate, T., Kosaki, T., and Nawata, E. 2006: Soil Organic Matter Dynamics in a Sloped Sandy Cropland of Northeast Thailand with Special Reference to the Spatial Distribution of Soil Properties. *Jap. J. Trop. Agr.*, 50(4), 199-207
- 70 Funakawa, S., Minami, T., Hayashi, Y., Naruebal, S., Noichana, C., Panitkasate, T., Katawatin, R., Kosaki, T., and Nawata, E. 2007: Process of Runoff Generation at Different Cultivated Sloping Sites in North and Northeast Thailand. *Jap. J. Trop. Agr.*, 51(1), 12-21
- 71 Funakawa, S., Suzuki, R., Kanaya, S., Karbozova-Saljniov, E., and Kosaki, T. 2007: Distribution patterns of soluble salts and gypsum in soils under large-scale irrigation agriculture in Central Asia. *Soil Sci. Plant Nutr.*, 53(2) 150-161
- 72 Takata, Y., Funakawa, S., Akshalov, K., Ishida, N. and Kosaki, T. 2007: Influence of landuse on the dynamics of soil organic carbon in northern Kazakhstan. *Soil Sci. Plant Nutr.*, 53(2) 162-172
- 73 Takata, Y., Funakawa, S., Akshalov, K., Ishida, N. and Kosaki, T. 2007: Spatial prediction of soil organic matter in northern Kazakhstan based on topographic and vegetation information. *Soil Sci. Plant Nutr.*, 53(3) 289-299
- 74 Funakawa, S., Tachikawa, S., Kadono, A., Pulunggono, H.B. and Kosaki, T. 2007: Factors controlling soil organic matter decomposition in small home gardens in different regions of Indonesia. *Tropics*, 17(1), 59-72

- 75 Watanabe, T., Funakawa, S., and Kosaki, T. 2007: Profile description, properties, and classification of seven upland soils formed under different conditions in Japan, Thailand, and Indonesia. *Pedologist*, 51(1), 24-34
- 76 Funakawa, S. and Kosaki, T. 2007: Potential risk of soil salinization in different regions of Central Asia with special reference to salt reserves in deep layers of soils, *Soil Sci. Plant Nutr.*, 53(5), 634-649
- 77 Yanai, J., Nakata, S., Funakawa, S., Nawata, E., Katawatin, R., Tulaphitak, T. and Kosaki, T. 2007: Evaluation of nutrient availability of sandy soil in northeast Thailand with reference to growth, yield and nutrient uptake by maize. *Jap. J. Trop. Agr.* 51(4) 169-176
- 78 Takata, Y., Funakawa, S., Yanai, J., Mishima, A., Akshalov, K., Ishida, N., and Kosaki, T. 2008: Influence of crop rotation system on the spatial and temporal variation of soil organic carbon budget in northern Kazakhstan. *Soil Sci. Plant Nutr.*, 54(1), 159-171
- 79 Yanai, J., Matsubara, M., Lee, C.K., Moritsuka, N., Shinjo, H. and Kosaki, T. 2008: Establishment of Rational Soil Sampling Scheme for the Paddy Field : Relationship between Sampling Frequency and Data Reliability., *Jpn. J. Soil Science and Plant Nutr.*, 79(1), 61-67 (in Japanese with English summary)
- 80 Kadono, A.; Funakawa, S.; and Kosaki, T., 2008: Factors controlling mineralization of soil organic matter in the Eurasian steppe. *Soil Biol. Biochem.* 40(4), 947-955
- 81 Fujii, K., Funakawa, S., Hayakawa, C., and Kosaki, T. 2008: Contribution of different proton sources to pedogenetic soil acidification in forested ecosystems in Japan. *Geoderma*, 144, 478-490
- 82 Sawada, K., Funakawa, S., Kosaki, T. 2008: Soil microorganisms have a threshold concentration of glucose to increase the ratio of respiration to assimilation. *Soil Sci. Plant Nutr.*, 54(2), 216-223
<Best Paper Award of Soil Science and Plant Nutrition in 2010>
- 83 Matsui, N., Suekuni, J., Havanond, S., Nishimiya, A., Yanai, J., and Kosaki, T. 2008: Determination of soil-related factors controlling initial mangrove (*Rhizophora apiculata* BL.) growth in an abandoned shrimp pond. *Soil Sci. Plant Nutr.*, 54(2), 301-309
- 84 Sugimori, Y., Funakawa, S., Pachikin, K.M., Ishida, N. and Kosaki, T. 2008: Soil salinity dynamics in irrigated fields and its effects on paddy-based rotation systems in southern Kazakhstan. *Land Degradation & Development*, 19, 305-320
- 85 Nakao, A., Thiry, Y., Funakawa, S., and Kosaki, T. 2008: Characterization of the frayed edge site of micaceous minerals in soil clays influenced by different pedogenetic conditions in Japan and northern Thailand. *Soil Sci. Plant Nutr.*, 54 (4), 479-489
- 86 Funakawa, S., Watanabe, T., and Kosaki, T. 2008: Regional trends in the chemical and mineralogical properties of upland soils in humid Asia: With special reference to the WRB classification scheme. *Soil Sci. Plant Nutr.*, 54(5), 751-760
- 87 Takata, Y., Funakawa, S., Akshalov, K., Ishida, N., and Kosaki, T. 2008: Regional evaluation of the spatio-temporal variation in soil organic carbon dynamics for rainfed cereal farming in northern Kazakhstan. *Soil Sci. Plant Nutr.*, 54(5), 794-806
- 88 Watanabe, T., Ogawa, N., Funakawa, S., and Kosaki, T. 2008: Relationship between chemical and mineralogical properties and the rapid response to acid load of soils in humid Asia: Japan, Thailand and Indonesia. *Soil Sci. Plant Nutr.*, 54(6), 856-869
- 89 Shinjo, H., Hayashi, K., Abdoulaye, T. and Kosaki, T. 2008: Management of livestock excreta through corralling practices by sedentary pastoralists in the Sahelian region of West Africa– A case study in southwestern Niger –, *Tropical Agriculture and Development*, 52(4), 97-103

- 90 Yanai, J., Noguchi, J., Yamada, H., Sugihara, S., Kilasara, M. and Kosaki, T. 2009: Function of geophagy as supplementation of micronutrients in Tanzania. *Soil Sci. Plant Nutr.*, 55(1), 215-223
- 91 Kadono, A., Funakawa, S. and Kosaki, T. 2009: Factors controlling potentially mineralizable and recalcitrant soil organic matter in humid Asia. *Soil Sci. Plant Nutr.*, 55(2), 243-251
- 92 Sawada, K., Funakawa, S. and Kosaki, T. 2009: Different effects of pH on microbial biomass carbon and metabolic quotients by fumigation-extraction and substrate induced respiration methods in soils under different climatic conditions. *Soil Sci. Plant Nutr.*, 55(3), 363-374
- 93 Fujii, K., Uemura, M., Hayakawa, C., Funakawa, S., Sukartiningsih, Kosaki, T., and Ohta, S. 2009: Fluxes of dissolved organic carbon in two tropical forest ecosystems of East Kalimantan, Indonesia. *Geoderma*, 152, 127-136
- 94 Mori, K., Bernier, N., Kosaki, T., and Ponge, J. 2009: Tree influence on soil biological activity: what can be inferred from the optical examination of humus profiles?, *European Journal of Soil Biology*, 45, 290-300
- 95 Nakao, A., Funakawa, S. and Kosaki, T. 2009: Hydroxy-Al polymers block the frayed edge sites of illitic minerals in acid soils: Studies in southwestern Japan at various weathering stages. *European journal of Soil Science*, 60, 127-138.
- 96 Nakao, A., Funakawa, S., Watanabe, T. and Kosaki, T. 2009: Pedogenic alterations of illitic minerals represented by Radiocesium Interception Potential in soils with different soil moisture regimes: in humid Asia. *European journal of Soil Science*, 60, 139-152.
- 97 Abakumov, E., Fujitake, N., and Kosaki, T. 2009: Humus and humic acids in Luvisol and Cambisol of Jiguli Ridges, Samara Region, Russia. *Applied and Environmental Soil Science*, (open access journal), Vol. 2009, Article ID 671359, doi:10.1155/2009/671359 (2009)
- 98 Ikazaki, K., Shinjo, H., Tanka, U., Tobita, S. and Kosaki, T. 2009: Sediment catcher to trap coarse organic matter and soil particles transported by wind. *American Society of Agricultural and Biological Engineers*, 52(2), 487-492 **<Honorable Mention Paper Award, American Society of Agricultural and Biological Engineers in 2010>**
- 99 Sawada, K., Funakawa, S. and Kosaki, T. 2009: Threshold concentrations of glucose to increase the ratio of respiration to assimilation in a Japanese arable soil and a strongly acidic Japanese forest soil, *Soil Sci. Plant Nutr.*, 55(5), 634-642
- 100 Fujii, K., Funakawa, S., Hayakawa, C., Sukartiningsih and Kosaki, T. 2009: Quantification of proton budgets in soils of cropland and adjacent forest in Thailand and Indonesia. *Plant Soil*, 316, 241-255.
- 101 Kadono, A. and Kosaki, T. 2010: The “measurable” soil organic carbon pools in a soil organic carbon dynamics model. *The International Journal of Tourism Science.*, 3, 79-88 (in Japanese)
- 102 Sugihara, S., Funakawa, S., Kilasara, M. and Kosaki, T. 2010: Effect of land management and soil texture on seasonal variations in soil microbial biomass in dry tropical agroecosystems in Tanzania. *Appl. Soil Ecol.*, 44, 80-88
- 103 Sugihara, S., Funakawa, S., Kilasara, M., and Kosaki, T. 2010: Dynamics of microbial nitrogen in relation to plant nitrogen uptake during the crop growth period in a dry tropical cropland in Tanzania. *Soil Sci. Plant Nutr.*, 56(1), 105-114
- 104 Funakawa, S., Shinjo, H., Kadono, A. and Kosaki, T. 2010: Factors controlling in situ decomposition rate of soil organic matter under various bioclimatic conditions of Eurasia. *Pedologist*, 53(3), 50-66
- 105 Kadono, A., Funakawa, S. and Kosaki, T. 2010: Factors controlling potentially mineralizable and recalcitrant soil organic carbon in humid Asia. *Pedologist*, 53(3), 135-142

- 106 Sawada, K., Funakawa, S., and Kosaki, T. 2010: Simulating short-term dynamics of non-increasing soil respiration rates by a model using Michaelis-Menten kinetics. *Soil Sci. Plant Nutr.*, 56(4), 570-578
- 107 Fujii, K., Hayakawa, C., Van Hees, P.A.W., Funakawa, S., and Kosaki, T. 2010: Biodegradation of low molecular weight organic compounds and their contribution to heterotrophic soil respiration in three Japanese forest soils. *Plant and Soil*, 334(1-2), 475-489
- 108 Sugihara, S., Funakawa, S. and Kosaki, T. 2010: In situ short-term carbon and nitrogen dynamics in relation to microbial dynamics after a simulated rainfall in croplands of different soil texture in Thailand. *Soil Sci. Plant Nutr.*, 56(6), 813-823
- 109 Fujii, K., Hartono A., Funakawa, S., Uemura, M. and Kosaki, T. 2010: Acidification of tropical forest soils derived from serpentine and sedimentary rocks in East Kalimantan, Indonesia. *Geoderma*, 160 (3-4), 311-323
- 110 Yanai, J., Nakata, S., Funakawa, S., Nawata, E., Katawatin, R. and Kosaki, T. 2010: Effect of NPK application on the growth, yield and nutrient uptake by sugarcane on a sandy soil in northeast Thailand. *Tropical Agriculture and Development*, 54, 113-118.
- 111 Sawada, K., Funakawa, S. and Kosaki, T. 2011: Factors relating to glucose utilization efficiency by soil microorganisms. *Soil Microorganisms*, 65(1), 41-48 (in Japanese)
- 112 Kadono, A., Honda, T., Yanai, J. Iwai, K. and Kosaki, T. 2011: Analysis of soil and meteorological environment for the better production of “Yamadanishiki” rice for sake (rice wine) in Kita-Harima Area, Hyogo, Japan. *The International Journal of Tourism Science*, 4, 9-14 (in Japanese)
- 113 Nakao, A., Takeda, A., Tsukada, H., Funakawa, S. and Kosaki, T. 2011: Potassium saturation and wet-dry repetition treatment for multiplication of cesium-selective sites in smectitic soils in Japan : Comparison between smectitic and allophanic soils. *Jpn. J. Soil Sic. Plant Nutr.*, 82(4), 290-297 (in Japanese with English summary) **<Best Paper Award of Jpn. J. Soil Sci. Plant Nutr.>**
- 114 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Funakawa, S. and Kosaki, T. 2011: “Fallow Band System,” a land management practice for controlling desertification and improving crop production in the Sahel, West Africa: 1. Effectiveness in desertification control and soil fertility improvement. *Soil Sci. Plant Nutr.*, 57(4), 573-586 **<Best Paper Award of Soil Science and Plant Nutrition in 2013>**
- 115 Fujii, K., Hartono, A., Funakawa, S., Uemura, M. and Kosaki, T. 2011: Fluxes of dissolved organic carbon in three tropical secondary forests developed on serpentine and mudstone. *Geoderma*, 163, 119-126
- 116 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Funakawa, S. and Kosaki, T. 2011: Aeolian materials sampler for measuring surface flux of soil nitrogen and carbon during wind erosion events in the Sahel, West Africa. *Trans. ASABE* 54(4), 983-990
- 117 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Funakawa, S. and Kosaki, T. 2011: Field-scale aeolian sediment transport in the Sahel, West Africa. *Soil Sci. Soc. Am. J.*, 1885-1897
- 118 Hayakawa, C., Fujii, K., Funakawa, S. and Kosaki, T. 2011: Biodegradation kinetics of monosaccharides and their contribution to basal respiration in tropical forest soils. *Soil Sci. Plant Nutr.*, 57(5), 663-673
- 119 Fujii, K., Hartono, A., Funakawa, S., Uemura, M., Sukartiningsih, Kosaki, T. 2011: Distribution of Ultisols and Oxisols in the serpentine areas of East Kalimantan, Indonesia. *Pedologist*, 55(2), 1-7
- 120 Fujii, K., Funakawa, S., Shijo, H., Hayakawa, C., Mori, K., and Kosaki, T. 2011: Fluxes of dissolved organic carbon and nitrogen throughout Andisol, Spodosol and Inceptisol profiles under forest in Japan. *Soil Sci. Plant Nutr.*, 57(6), 855-866

- 121 Sugihara S., Funakawa, S., Kilasara M., and Kosaki, T. 2012: Effect of land management on CO₂ flux and soil C stock in two Tanzanian croplands with contrasting soil texture. *Soil Biol. Biochem.*, 46, 1-9
- 122 Ikazaki, K., Shinjo, H., Tanaka, U., Iwai, K. and Kosaki, T. 2012: Spatial heterogeneity as a possible indicator of herbaceous degradation in the Sahel, West Africa. *The International Journal of Tourism Science*, 5, 15-21 (in Japanese)
- 123 Cao, L., Siriguleng, Ikazaki, K., Kadono, A., Kosaki, T. 2012: Effects of tourism activities on Vegetation in Hulunbuir Grassland, Inner Mongolia, China. *The International Journal of Tourism Science*, 5, 71-79 (in Japanese)
- 124 Fujii K, Funakawa S, Kosaki T. 2012: Soil acidification: natural process and human impacts. *Pedologist*, 55(3), 415-425
- 125 Kadono, A., Funakawa, S., and Kosaki, T. 2012: Comparison of measurable and conceptual soil organic carbon pools using the Roth C Model in Eurasia steppe soils under different land use. *Pedologist*, 55(3), 442-448
- 126 Sugihara, S., Funakawa, S., Kilasara, M., and Kosaki, T. 2012: Effect of land management on soil microbial N supply to crop N uptake in a dry tropical cropland in Tanzania. *Agriculture, Ecosystems and Environment*, 146(1), 209-219
- 127 Sugihara, S., Funakawa, S., Kilasara, M. and Kosaki T. 2012: Dynamics of fractionated P and P budget in soil under different land management in two Tanzanian croplands with contrasting soil textures., *Agriculture, Ecosystems and Environment*, 162, 101-107.
- 128 Nakao, A., Funakawa, S., Takeda, A., Tsukada, H., and Kosaki, T. 2012: The distribution coefficient for cesium in different clay fractions in soils developed from granite and Paleozoic shales in Japan. *Soil Sci. Plant Nutr.*, 58(4), 397-403
- 129 Tani, M., Shinjo, H., Fujitake, N., Sumida, H. and Kosaki, T. 2012: Features and properties of chernozemic soils and humic substances in eastern Ukraine. *Pedologist*, 56(2), 47-57
- 130 Ikazaki, K., Ohmae, H., Nagumo, F., Iwai, K. and Kosaki, T. 2013: Development of a new land management practice for coral conservation in Okinawa, Japan. *The International Journal of Tourism Science*, 6, 17-23 (in Japanese)
- 131 Siriguleng, Cao, L., Ikazaki, K., Kadono, A. Kosaki, T. 2013: Effects of small-scale tourism on vegetation in Hulunbuir Grassland, Inner Mongolia, China. *The International Journal of Tourism Science*, 6, 53-59 (in Japanese)
- 132 Ikazaki, K., Tanaka-Takahashi, M., Sasaki, Y. and Kosaki, T. 2013: Development of an eco-tour to promote understanding of desertification. *The International Journal of Tourism Science*, 6, 127-134 (in Japanese)
- 133 Fujii, K., Funakawa, S., Hayakawa, C., and Kosaki, T. 2013: Fluxes of dissolved organic carbon and nitrogen in ceopland and adjacent forests in a clay-rich Ultisols of Thailand and a sandy Ultisol of Indonesia. *Soil and Tillage Research* 126, 267-275
- 134 Fujii, K., Uemura, M., Hayakawa, C., Funakawa, S., and Kosaki, T. 2013: Environmental control of lignin peroxidase, manganese peroxidase, and laccase activities in forest floor layers in humid Asia. *Soil Biol. Biochem.* 57, 109-115
- 135 Fujii, K., Morioka, K., Hangs, R., Funakawa, S., Kosaki, T., and Anderson, D.W. 2013: Importance of climate and parent material on soil formation in Saskatchewan, Canada as revealed by soil solution studies. *Pedologist*, 57(1), 27-44

- 136 Fujii, K., Morioka, K., Hangs, R., Funakawa, S., Kosaki, T. and Anderson, D.W. 2013: Rapid turnover of organic acids in a Dystric Brunisol under a spruce-lichen forest in northern Saskatchewan, Canada. *Can. J. Soil Sci.* , 93(3) , 295-304
- 137 Nakao, A., Funakawa, S. and Kosaki, T. 2013: Cation exchange capacity derived from tetrahedral layer charges increase with decreasing hydroxy-Al polymers in 2:1 phyllosilicates through soil acidification in acidic forest soils (Dystrudepts) in Kinki-district, Japan. *Clay Science*, 17, 75-82.
- 138 Hayakawa, C., Funakawa, S., Fujii, K., Kadono, A., and Kosaki, T. 2014: Effect of climate and soil properties on cellulose decomposition rates in temperate and tropical forests. *Biology and Fertility of Soils*. 50(4), 633-643
- 139 Sugihara, S., Funakawa, S., Ikazaki, K., Shinjo, H., and Kosaki, T. 2014: Rewetting of dry soil did not stimulate the carbon and nitrogen mineralization in croplands with plant residue removed in the Sahel, West Africa. *Tropical Agriculture and Development*, 58(1), 8-17
- 140 Ikazaki, K., Ohmae, H., Nagumo, F., Iwai, K. and Kosaki, T. 2015: Development of a New Land Management Practice for Coral Conservation in Okinawa, Japan : 2. Optimization of the “Winged Bean Band” *The International Journal of Tourism Science*, 8, 91-97 (in Japanese)
- 141 Sugihara S., Funakawa S., Kadono A., Takata Y., Sawada K., Fujii K., Kosaki T. 2015: In situ short-term dynamics of CO₂ flux and microbial biomass after simulated rainfall in dry croplands in four tropical and continental ecosystems. *Soil Sci. Plant Nutr.*, 61(3), 392-403
- 142 Sawada, K., Funakawa, S., Toyota, K., and Kosaki, T. 2015: Potential nitrogen immobilization as influenced by available carbon in Japanese arable and forest soils. *Soil Sci. Plant Nutr.*, 61(6), 917-926
- 143 Siriguleng, Ikazaki, K., Kadono, A., Cao, L., Kang, Y., Yang, J., Duwala, Meirong and Kosaki, T. 2015: Effect of different land use types of pastoralism on the vegetation and soil in Inner Mongolia, China. *Pedologist*, 59(2), 41-51 (in Japanese with English summary)
- 144 Cao, L., Ikazaki, K., Kadono, A., Siriguleng, Sugihara, S., and Kosaki, T. 2015: Effect of tourism activities, on grassland degradation in Hulunbuir Grassland, Inner Mongolia, China. *Pedologist*, 59(2), 52-62 (in Japanese with English summary)
- 145 Sugihra, S., Honda, T., Fujii, K., Funakawa, S., Iwai, K. and Kosaki, T. 2016: Does soil chemical characteristics affect the brewer's rice quality? –A case study in Hyogo Prefecture–, *The International Journal of Tourism Science*, 9, 125-129 (in Japanese)
- 146 Sawada, K., Funakawa, S. and Kosaki, T. 2016: Short-term respiration responses to drying–rewetting in soils from different climatic and land use conditions, *Applied Soil Ecology* 103, 13-21

Refereed Chapters and Reviews

- 1 Kyuma, K., Nagatsuka, S., Hamazaki, T., Inoue, T. and Kosaki, T. 1985: Review; Research progress in soil genesis, classification and survey, *Jpn. J. Soil Sci. Plant Nutr.*, 56, 552-560 (in Japanese)
- 2 Kyuma, K., Kosaki, T. and Juo, A.S.R. 1986: Evaluation of the fertility of the soils., In Juo, A.S.R. and Lowe, J.A. (Eds.) *Wetlands and Rice in Subsaharan Africa.*, International Institute of Tropical Africa, Ibadan, Nigeria, 43-58
- 3 Kosaki, T. and Juo, A.S.R. 1986: Iron toxicity of rice in inland valleys; A case from Nigeria., In Juo, A.S.R. and Lowe, J.A. (Eds.) *Wetlands and Rice in Subsaharan Africa.*, International Institute of Tropical Africa, Ibadan, Nigeria, 167-174
- 4 Kosaki, T. and kyuma, K. 1989: Soil fertility of arable land in Zone de Kabare in the Lake Kivu area., In Hirose, S. (Ed.) *Agriculture and Soils in Zaire*, Nihon University, Tokyo, 129-138

- 5 Kosaki, T. and Kyuma, K. 1989: Multivariate statistical analysis of local criteria used for evaluation of soil fertility by farmers in Zone de Kabare in the Lake Kivu area., In Hirose, S. (Ed.) Agriculture and Soils in Zaire, Nihon University, Tokyo, 139-147
- 6 Kosaki, T. 1989: Soil data collection and its data base construction, *Pedologist*, 33, 144-145 (in Japanese)
- 7 Kosaki, T. 1990: Soils in the world. In Working Group for The World of Soils (Ed.) *The World of Soils: Message from Ground*. Asakura Publishing Co., Ltd., Tokyo, Japan , 27-28 (in Japanese)
- 8 Kosaki, T. 1990: Soil information. In Working Group for The World of Soils (Ed.) *The World of Soils: Message from Ground*. Asakura Publishing Co., Ltd., Tokyo, Japan, 90-93 (in Japanese)
- 9 Kosaki, T. 1992: Material classification and fertility evaluation of acid soils in the tropics., In Sakuma, T. (Ed.) *Plant-Soil Interactions at Low pH*, Hokkaido University, Sapporo, 24-29,
- 10 Kosaki, T., Hamazaki, T., Hirai, H. and Anzai, T. 1996: Review; Research progress in soil genesis, classification and survey, *Jpn. J. Soil Sci. Plant Nutr.*, 67, 526-535 (in Japanese)
- 11 Kosaki, T. 1997: Classification of soils, In Kyuma, K. (Ed.) *Contemporary Soil Science*, Asakura Publishing Co., Ltd., Tokyo, Japan (in Japanese)
- 12 Kosaki, T. 1997: Characteristics of clay minerals, In Hirose, S. and Wakatsuki, T. (Eds.) *Restoration of Inland Valley Ecosystems in West Africa*, Association of Agriculture and Forestry Statistics, Tokyo, 123-125 (in Japanese)
- 13 Kosaki, T. 1998: Soils in Japan. In Koshimizu, H. and Yoshida, H. (Eds.) *Foundation for Greening*, Soft Science Publishing Co., Ltd., Tokyo, 10-28 (in Japanese)
- 14 Kosaki, T. 1999: Characteristics of paddy soils. In Mizutani, M. et al. Ed. *Advanced Paddy Field Engineering*, Shinzan-sha Sci. & Tech. Publ. Co., Ltd., Tokyo, 11-30
- 15 Kosaki, T., Nakai, M., Funakawa and Funakawa, S. 1999: Review; Research progress in soil genesis and classification, *Jpn. J. Soil Sci. Plant Nutr.*, 70(5), 665-671 (in Japanese)
- 16 Kato, Y. and Kosaki, T. 1999: Review; Research progress in land evaluation, *Jpn. J. Soil Sci. Plant Nutr.*, 70(5), 671-673 (in Japanese)
- 17 Yanai, J. and Kosaki, T. 2000: Pedometrics; Principles and application. 1. How to prepare isarithm maps using geostatistics, *Jpn. J. Soil Sic. Plant Nutr.*, 71(5), 726-732 (in Japanese)
- 18 Kosaki, T., Inubushi, K., Kato, H., Ishi, H. and Matsumoto, S. 2000: Man, soil and environment in the 21st Century, *Jpn. J. Soil Sci. Plant Nutr.*, 71(6), 934-937 (in Japanese)
- 19 Naganawa, T. and Kosaki, T. 2001: Pedometrics; Principles and application. 3. Fuzzy classification, *Jpn. J. Soil Sci. Plant Nutr.*, 72(1), 108-113 (in Japanese)
- 20 Kosaki, T. 2001: Classification of tropical soils, In Kyuma, K. (Ed.) *Tropical Soil Science*, Nagoya University Press, Nagoya (in Japanese)
- 21 Kosaki, T. 2002: Characteristics of clay minerals, Hirose, S. and Wakatsuki, T. Ed. *Restoration of Inland Valley Ecosystems in West Africa*, Association of Agriculture and Forestry Statistics, Tokyo, 135-137
- 22 Funakawa, S. and Kosaki, T. 2002: Land degradation in Aral Sea area, In Fuwa, K. and Morita, M. (Eds.) *Handbook of Global Environment*, Asakura Publishing Co., Ltd., Tokyo, 708-717 (in Japanese)
- 23 Nakai, M., Nanzyo, M., Hamazaki, T., Obara, H., Kosaki, T. and Komaki, M. 2002: Information technology in Soil Science, *Jpn. J. Soil Sci. Plant Nutr.*, 73(1), 65-68 (in Japanese)
- 24 Kosaki, T. 2003: What is eco-friendly biomass production? In Kyoto University (Eds.) *History of Eighty Years: Faculty of Agriculture*, Kyoto University, Kyoto University, Kyoto, 90-94 (in Japanese)

- 25 Shinjo, H. and Kosaki, T. 2005: Carbon cycling and soil organic matter in forest ecosystems, In Kimra, M. and Hatano, R. (Eds.) Pedosphere and Global Warming, Nagoya University Press, Nagoya, 51-68 (in Japanese)
- 26 Shinjo, H. and Kosaki, T. 2005: Seasonal pattern of soil respiration and soil carbon budget in Japanese forests, In Kimra, M. and Hatano, R. (Eds.) Pedosphere and Global Warming, Nagoya University Press, Nagoya, 71-82 (in Japanese)
- 27 Funakawa, S. and Kosaki, T. 2005: Characterization and distribution of soils of Kazakhstan Steppe, *Pedologist*, 49(1), 52-66 (in Japanese)
- 28 Funakawa, S., Yanai, J., Karbozova-Saljinikov, E., Akshalov, K., and Kosaki, T. 2007: Dynamics of water and soil organic matter under grain farming in Northern Kazakhstan – Toward Sustainable Land Use Both from the Agronomic and Environmental Viewpoints, In Lal,R., Suleimenov, M., Stewart, B.A., Hansen, D.O., Doraiswamy, P. (Eds.), *Climate Change and Terrestrial Carbon Sequestration in Central Asia*, Taylor and Francis, London, 279-331
- 29 Shinjo, H. and Kosaki, T. 2007: Global environmental issues and foundation, In Kamon, M., Kusakabe, O. and Nishigaki, M. (Eds.) *Handbook of Environmental Geotechnical Engineering*, Asakura Publishing Co., Ltd., Tokyo, 19-25 (in Japanese)
- 30 Shinjo, H. and Kosaki, T. 2007: Soil erosion, In Kamon, M., Kusakabe, O. and Nishigaki, M. (Eds.) *Handbook of Environmental Geotechnical Engineering*, Asakura Publishing Co., Ltd., Tokyo, 25-36 (in Japanese)
- 31 Shinjo, H. and Kosaki, T. 2007: Soil salinization, In Kamon, M., Kusakabe, O. and Nishigaki, M. (Eds.) *Handbook of Environmental Geotechnical Engineering*, Asakura Publishing Co., Ltd., Tokyo, 36-41 (in Japanese)
- 32 Kosaki, T. 2008: Characteristics of soils in Africa, In Saito, R., Tanaka, K. and Yoshida, M. (Eds.) *Towards Food Security in Africa*, Africa Japan Forum, Tokyo, 38-48 (in Japanese)
- 33 Kosaki, T., Watanabe, K., Sano, S., Yanai, J., Toriyama, K., Matsumoto, S., Ae, N. and Mishima, S. 2008: Novel technologies for soil fertility evaluation and management, *Jpn. J. Soil Sci. Plant Nutr.*, 79(1), 113-118 (in Japanese)
- 34 Funakawa, S., Kosaki, T. and Yanai, J. 2008: The latest research works in pedology in Asian countries 1. Recent soil studies in Kazakhstan: What is the sustainable land use in arid and semi-arid zones of Central Asia?, *Jpn. J. Soil Sci. Plant Nutr.*, 79(4), 399-407 (in Japanese)
- 35 Watanabe, T., Funakawa, S. and Kosaki, T. 2009 : Distribution of Clay Mineralas in Upland Soils under Different Weathering Conditions of Humid Asia, In McLaughlin, E.D. and Breau, L.A. (Eds.), *Chemical Mineralogy, Smelting and Metallization*, Nova Science Publishers Inc., New York, 19-56
- 36 Funakawa, S., Watanabe, T., Kadono, A., Nakao, A., Fujii, K. and Kosaki, T. 2011: Soil Resources and Human Adaptation in Forest and Agricultural Ecosystems in Humid Asia, In Lal R. and Stewart, B.A. (Eds.), *World Soil Resources and Food Security*, CRC Press, Taylor and Francis, New York, 53-168
- 37 Funakawa, S., Watanabe, T., Nakao, A., Fujii, K. and Kosaki, T. 2011: Pedogenic Acidification in Upland Soils under Different Bioclimatic Conditions in Humid Asia, In Lal R. and Stewart, B.A. (Eds.), *World Soil Resources and Food Security*, CRC Press, Taylor and Francis, New York, 169-271
- 38 Kosaki, T. 2012: Is agriculture for divinity or desire? In Association of Japanese Agricultural Scientific Societies (Ed.) *Agricultural Research Contributing to Environmental Conservation and Remediation*, Yokendo Publishing Co., Ltd., Tokyo, 159-163 (in Japanese)

- 39 Funakawa, S., Yoshida, H., Watanabe, T., Sugihara, S., Kilasara, M. and Kosaki, T. 2012: Soil fertility status and its determining factors in Tanzania. In Hernandez-Soriano, M.C. (Ed.), Soil Health and Land Use Management, InTech, 1-14
- 40 Fujii, K., Hayakawa, C., Funakawa, S., and Kosaki, T. 2015: Acidification of Tropical Soils under Forest and Continuous Cropping in Thailand and Indonesia. In Brearley, F. Q., Thomas, A. D (Eds.) Land-use Change Impacts on Soil Processes: Tropical and Savannah Ecosystems., CABI, Wallingford, UK, 55-71
- 41 Ikazaki, K. and Kosaki, T. 2015: Soil Science: Fundamental of tourism, In Kikuchi, T. and Arima, T. (Eds.) Nature-based Tourism, Asakura Publishing Co., Ltd., Tokyo, 34-45 (in Japanese)
- 42 Kosaki, T. 2016: How do soils feed ten billion people? In Association of Japanese Agricultural Scientific Societies (Ed.) Agricultural Research in International Year of Soil, 2015; Bridges connecting society, environment and life., Yokendo Publishing Co., Ltd., Tokyo, 1-16 (in Japanese)

Refereed Conference Papers and Keynotes Presentations

- 1 Wakatsuki, T., Kosaki, T. and Palada, M.C. 1989: Rice soil fertility of inland valley swamps in West Africa., In Proceedings of the First International Symposium on Paddy Soil Fertility, p.695-715, Paddy Soil Fertility Working Group, Cheng Mai, Thailand
- 2 Kosaki, T., Takahashi, M. and Kondo, Y. 1990: System for farm environment monitoring (SYFARM): Its structure, function and use, Transactions of 14th International Congress of Soil Science, vol.5, August 15, International Society of Soil Science, Madison, USA, 104-109
- 3 Kosaki, T., Tsujimura, S. and Ishida, N. 1993: Where and how does salinization take place under large-scale irrigation agriculture in Central Asia? A case study in Kazakhstan., Proceedings of the International Workshop on Classification and Management of Arid-Desert Soils., September 3, Urumqi, China, vol.1, 35-40
- 4 Kikusawa, M., Bando, Y., Kitagawa, Y. and Kosaki, T. 1994: The effect of upland cultivation on nitrogen dynamics in paddy soils by factor analysis, Proceedings of the International Agricultural Engineering Conference, Bangkok, Thailand, December 6-9, vol.2, 438-445
- 5 Kosaki, T., Funakawa, S., Suzuki, R., Karbozova, E. and Ishida, N. 1995: Salt-affected soils under large-scale irrigation agriculture in Kazakhstan., Proceedings of Symposium On The Aral Sea And The Surrounding Region, Otsu, Japan, IETC Technical Publication Series (4), 136-141
- 6 Kosaki, T., Tsujimura, S., Karbozova, E., and Ishida, N. 1996: Desertification (soil degradation) due to salinization under large-scale irrigation agriculture in Kazakhstan, Central Asia., Proceedings of Symposium "Towards solving the global desertification problem(4)", ed. by Miyazaki, T. and Tsunekawa, A., National Institute for Environmental Studies, Tsukuba, 7-10
- 7 Kosaki, T. 1996: Comparative study of desertification (soil degradation)., Proceedings of Symposium "Towards solving the global desertification problem(4)", ed. by Miyazaki, T. and Tsunekawa, A., National Institute for Environmental Studies, Tsukuba, 123-127
- 8 Kang, Y., Miura, T., Kosaki, T. and Kawachi, T 1996: Evaluation of heavy metals in contaminated soil., Environmental Geotechnics (Proceedings of the Second International Congress on Environmental Geotechnics, IS-Osaka'96), ed. by M. Kamon, vol. 2, A.A. Balkema, Rotterdam, 1149-1154
- 9 Funakawa, S., Kosaki, T., Suzuki, R., Kanaya, S., Karbozova, E. and Mirzajonov, K. 1998: Soil Salinization under the large-scale irrigation agriculture along Ili River and Syr-Darya River., In Sustainable use of natural resources of Central Asia, Environmental problem of Aral Sea and

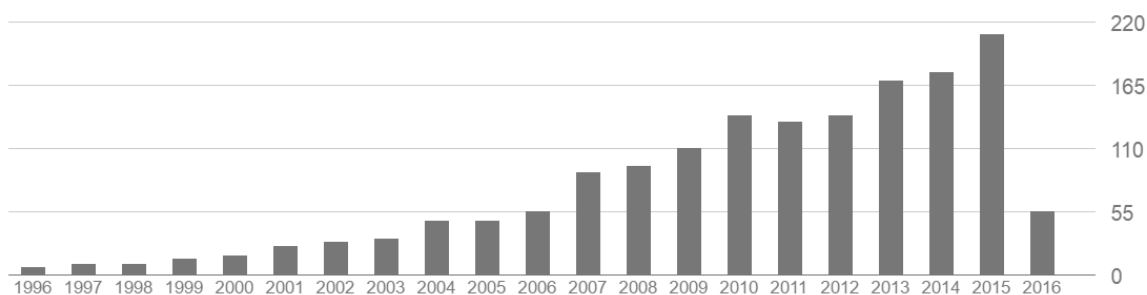
- surrounding areas. Proceedings of International Scientific Conference, September 9-11, 1997, Almaty, Tethys, Almaty, 37-41
- 10 Funakawa, S., Kosaki, T., Hirooka, K., Yevstifeev, Y. and Iskakov, A. 1998: Chemical and mineralogical properties of the soils in the semi-arid steppe region in Kazakhstan., In Sustainable use of natural resources of Central Asia, Environmental problem of Aral Sea and surrounding areas. Proceedings of International Scientific Conference, September 9-11, 1997, Almaty, Tethys, Almaty, 42-47
 - 11 Kosaki, T. 2002: Desertification (Soil Degradation): Causes and Remedies. Plenary Papers of The Proceedings of International Symposium on Combating Desertification “Strategies for Yellowsand Prevention” , Korean Forest Service, Seoul, Korea, 1-24
 - 12 Tanaka, U., Miyazaki, H., Noda, E. and Kosaki, T. 2002: Soil characteristics and fertility maintenance under local farming practices in semi-arid West Africa., Symposium on Integration and Regional Researches to Combat Desertification, National Institute of Environmental Studies, Tsukuba, 111-117
 - 13 Funakawa, S. and Kosaki, T. 2002: Salt-affected soils under large-scale irrigation agriculture in Central Asia., Symposium on Integration and Regional Researches to Combat Desertification, National Institute of Environmental Studies, Tsukuba, 231-238
 - 14 Kosaki, T. 2004: What should pedologists contribute towards the security of food and environment in the 21st century? (Plenary paper), The Proceedings of the International Forum “We shall keep a planet the Earth” , The V.V. Dokuchaev Central Museum of Soil Science, St. Petersburg, Russia, 74-77
 - 15 Kosaki, T., Funakawa, S., Mishima, A., Sugimori, Y., Takata, Y., Yanai, J., Akshalov, K., and Ishida, N. 2006: Desertification processes and their control for sustainable use of land resources in Central Asia., Proceedings of the International Symposium “Children’s Environmental Health for a Sustainable Future Focus on Aral Sea Region”, November 8-9, Tokyo and November 11 in Otsu, Japan, 93-104
 - 16 Ikazaki, K., Shijo, H., Tanaka, U., Tobita, S., Funakawa, S. and Kosaki, T. 2010: Performance of an Aeolian materials sampler for the determination of amount of coarse organic matter transported during wind erosion events in the Sahel. *Pedologist*, 53(3), 126-134 (presented in the International Symposium "Challenges to Soil Degradation towards Sustaining Life and Environment" at the 9th International Conference of ESAFS, October 27-30, 2009, Seoul, Korea)
 - 17 Yanai, J., Yamada, K., Yamada, H., Nagano, Y., and Kosaki, T. 2011: Risk assessment of heavy metal-contaminated soils with reference to the aging effects. *Pedologist*, 54(3), 278-284 (presented in the International Symposium “Risk assessment and risk-based approaches to remediation” at the 19th WCSS, August 1-6, 2010, Brisbane, Australia)
 - 18 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Funakawa, S., Iwai, K., and Kosaki, T. 2012: Soil nutrient loss from a cultivated field during wind erosion events in the Sahel, West Africa. *Pedologist*, 55(3), 355-363 (presented in the International Symposium “Land Degradation and Pedology”, August 8-9, 2011, Tsukuba, Japan)
 - 19 Funakawa, S., Fujii, K., Kadono, A., Watanabe, T., and Kosaki, T. 2014: Could soil acidity enhance sequestration of organic carbon in soils? In Hartemink, A. and McSweeney, K. (Eds.), *Soil Carbon*, Springer, New York, 209-216 (presented in the “Global Soil Carbon Conference” June 2-6, 2013, Madison, USA)
-

Citations

Google Scholar (as of May 30, 2016)

Citation indices	All
Citations	1668
h-index	22
<u>i10-index</u>	54

Citations per year



INTERNATIONAL SYMPOSIUMS ORGANIZED/SPONSORED/SUPPORTED **(Division, Commission and Working Group of IUSS responsible for the symposiums)**

- 1 Kosaki, T. and Choi, W. 2009: “Challenges of Soil Degradation Towards Sustaining Life and Environment”, October 28, Seoul, Korea.
(jointly organized by East and Southeast Asian Federation of Soil Science Societies (ESAFS), **Commission 3.5, IUSS**, Tokyo Metropolitan University, and Japanese Society of Pedology)
- 2 Naidu, R., Bolan, N., and Kosaki, T. 2010: “Remediation of Heavy Metal Contaminated Soils”, August 1-6, Brisbane, Australia.
(jointly organized by **World Congress of Soil Science, IUSS**, Tokyo Metropolitan University, Japanese Society of Pedology)
- 3 Naidu, R., Bolan, N., and Kosaki, T. 2010: “Risk Assessment and Risk-based Approaches to Remediation”, August 1-6, Brisbane, Australia.
(jointly organized by **World Congress of Soil Science, IUSS**, Tokyo Metropolitan University, Japanese Society of Pedology)
- 4 Kosaki, T. and Sakurai, K. 2011: “Land Degradation and Pedology”, August 8-9, Tsukuba, Japan.
(jointly organized by **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition and Japanese Society of Pedology)
- 5 Kosaiki, T., Gicheru, P. and Indratne, S.P. 2011: “Land Degradation & Management”, October 10-13, Colombo, Sri Lanka.

- (jointly organized by East and Southeast Asian Federation of Soil Science Societies (ESAFS), **Commission 3.5, IUSS**, Tokyo Metropolitan University, and Japanese Society of Pedology)
- 6 Gicheru, P., Kosaki, T., Horn, R., and Senesi, N. 2012: “Soil Erosion and Degradation on Agricultural Land”, July 2-6, Bari, Italy.
(jointly supported by European Confederation of Soil Science Society (ECSSS), **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 7 Kosaki, T. and Gicheru, P., Horn, R., and Senesi, N. 2012: “Soil Degradation in the Medeterranean: A Never-ending story that still needs solutions”, July 2-6, Bari, Italy.
(jointly supported by European Confederation of Soil Science Societies (ECSSS), **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 8 Kosaki, T. and Gabriels, D. 2013: “The First Conference on Desertification and Land Degradation (DesertLand I)”, June 17-18, Gent, Belgium.
(jointly sponsored by University of Gent, **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 9 Kosaki, T. 2013: “Land Degradation and Remediation”, October 21-23, Bogor, Indonesia.
(jointly organized by East and Southeast Asia Federation of Soil Science Societies (ESAFS), **Commission 3.5, IUSS**, and Tokyo Metropolitan University)
- 10 Kosaki, T. and Gicheru, P. 2014: “Water Conservation Technologies and Impacts on Sustainable Dry Land Agriculture”, June 8-13, Jeju, Korea.
(jointly organized by **World Congress of Soil Science, IUSS**)
- 11 Kosaki, T., Morel, J.L., Watanabe, M., and Kawahigashi, M. 2014: “Establishment of Optimized Land-use for Symbiotic Urban Systems”, September 8, Tokyo, Japan.
(jointly organized by **Commission 3.5, SUITMA Working Group and Division 3, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 12 Arao, T. and Kosaki, T. 2015: “Remediation of Heavy Metals-contaminated Soils; Novel practical approach based on state-of-the-art science”, July 12-16, Fukuoka, Japan.
(jointly supported by The International Conference on the Biogeochemistry of Trace Elements (ICOBTE), **Division 3, IUSS**, and Japanese Society of Soil Science and Plant Nutrition)
- 13 Yamaguchi, N. and Kosaki, T. 2015: “Application of Synchrotron Radiation (SR) -based Methods to Biogeochemistry and Environmental Geochemistry of Trace Elements”, July 12-16, Fukuoka, Japan.
(jointly supported by The International Conference on the Biogeochemistry of Trace Elements (ICOBTE), **Division 3, IUSS**, and Japanese Society of Soil Science and Plant Nutrition)
- 14 Watanabe, M., Kawahigashi, M. and Kosaki, T. 2015: “Impacts of Human Activities on Pedogenesis along a Gradient of Urbanization”, July 26 - August 2, Nagoya, Japan.
(jointly organized by International Union for Quaternary Research (INQUA), **Division 3, IUSS**, Tokyo Metropolitan University and Japanese Society of Soil Science and Plant Nutrition)
- 15 Nishida, M. and Kosaki, T. 2015: “High Yield of Rice and Sustainable Soil Utilization”, September 18-21, Nanjing, China.
(jointly organized by East and Southeast Asia Federation of Soil Science Societies (ESAFS) and **Paddy Soils Working Group and Division 3, IUSS**)
- 16 Fujiwara, T. and Kosaki, T. 2015: “Plant Nutrition Research for Future Sustainable Agriculture”, September 23-26, Kiel, Germany.
(jointly organized by International Congress on the Occasion of the International Year of Soils 2015 (SUSTAIN), **Commission 3.3 and Division 3, IUSS**)

- 17 Singh, B.R. and Kosaki, T. 2015: "Soil Degradation - Impact on soil quality, productivity and climate change", September 23-26, Kiel, Germany.
(jointly convened by International Congress on the Occasion of the International Year of Soils 2015 (SUSTAIN), **Land Degradation Working Group and Division 3, IUSS**)
- 18 Kosaki, T. and Kilasara, M. 2015: "Sustainable Soil Productivity in Tropical Africa -Nutrient stock and flow-", November 23-27, Morogoro, Tanzania.
(jointly organized by Soil Science Society of East Africa (SSSEA) and **Division 3, IUSS**)
- 19 Borrás, J.B. and Kosaki, T. 2016: "Detection, Risk Assessment and Remediation of Polluted Soils from Mining and Smelting Areas", July 17-22, Istanbul, Turkey.
(jointly planned by European Confederation of Soil Science Societies (ECSSS), **Commission 3.5 and Division 3, IUSS**)