

CURICULLUM VITAE

Takashi Kosaki

Professor

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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-Salnikov, 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
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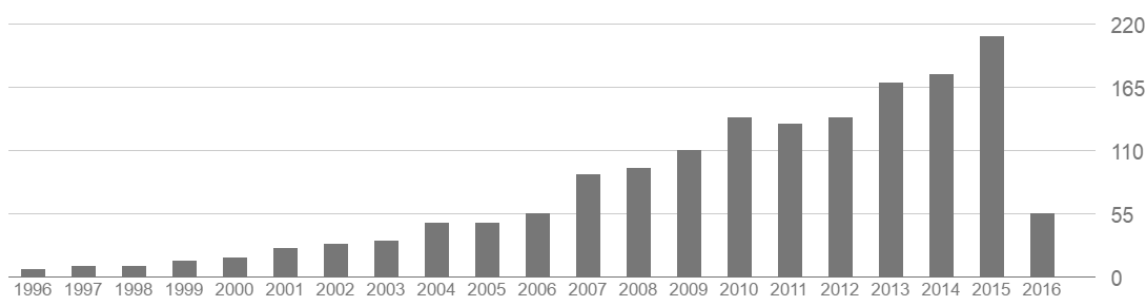
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