

# CURICULLUM VITAE

## **Takashi Kosaki**

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## EDUCATION

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

## 学歴

昭和 50 年 3 月	京都大学・農学部・農芸化学科卒業
昭和 50 年 8 月～ 51 年 7 月	米国ウィスコンシン大学大学院・農学及び生命科学研究科（土壌学 専攻）・修士課程（文部省交換留学生）
昭和 52 年 3 月	京都大学大学院・農学研究科・修士課程（農芸化学専攻）修了・農 学修士
昭和 57 年 1 月	京都大学大学院・農学研究科・博士後期課程（農芸化学専攻）修 了・京都大学農学博士

## PROFESSIONAL EXPERIENCE

Aug-1981 to Mar-1985	<b>Assistant Professor</b> Faculty of Agriculture, Kyoto University, Kyoto, Japan
Jan-1982 to Mar-1985	<b>Research Scientist</b> International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria
Apr-1985 to Mar-1990	<b>Assistant Professor</b> Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan
Apr-1990 to Mar-1994	<b>Associate Professor</b> Faculty of Agriculture, Kyoto University, Kyoto, Japan
Apr-1994 to Mar-2008	<b>Professor</b> Graduate School of Agriculture, Kyoto University, Kyoto, Japan
Sep-1997 to Oct-1997	<b>Visiting Scientist</b> (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	<b>Visiting Scientist</b> (ditto) Department of Soil Science, University of Saskatchewan, Saskatoon, Canada
Sep-1999 to Oct-1999	<b>Visiting Scientist</b> (ditto) Department of Soil Science, University of Adelaide, Adelaide, Australia
Sep-2001 to Oct-2001	<b>Visiting Scientist</b> (ditto) Faculty of Agriculture and Applied Biological Science, Ghent University, Ghent, Belgium

Apr-2002 to Mar-2008	<b>Professor (concurrently appointed)</b> Graduate School of Global Environmental Studies, Kyoto University, Kyoto, Japan
Jun-2003 to Jul-2003	<b>Visiting Scientist</b> (supported by JSPS) V.V. Dokuchaev Central Soil Museum, St. Petersburg, Russia
Oct-2004 to Nov-2004	<b>Visiting Scientist</b> (ditto) College of Agronomy, University of Buenos Aires, Buenos Aires, Argentina
Apr-2008 to Mar-2017	<b>Professor</b> Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Tokyo, Japan <b>Emeritus Professor</b> Kyoto University, Kyoto, Japan
Jul-2016 to Oct-2016	<b>Visiting Professor</b> (supported by Research Council of Norway) Norwegian University of Life Sciences, Ås, Norway
Apr-2017 to Mar-2023	<b>Professor</b> Department of Global Liberal Arts, Aichi University, Nagoya, Japan
Apr-2023 to present	<b>Senior Visiting Researcher</b> Institute of International Affairs, and <b>Emeritus Professor</b> Aichi University, Nagoya, Japan

## 職歴

昭和 56 年 8 月	京都大学・農学部・助手
昭和 57 年 1 月	International Institute of Tropical Agriculture（在ナイジェリア）・ Research Scientist
昭和 60 年 4 月	帯広畜産大学・畜産学部・助手
平成 2 年 4 月	京都大学・農学部・助教授
平成 6 年 6 月	京都大学・農学部・教授
平成 9 年 9 月～10 月	ハンガリー国立土壌及び農芸化学研究所・客員研究員（日本学 術振興会）
平成 10 年 7 月～8 月	サスカチュワン大学・土壌学科・客員研究員（同上）
平成 11 年 9 月～10 月	アデレード大学・土壌学科・客員研究員（同上）
平成 13 年 9 月～10 月	ゲント大学・農学及び応用生物科学部・客員研究員（同上）
平成 14 年 4 月	京都大学大学院・地球環境学堂・教授（両任）

平成 15 年 6 月～7 月	サンクトペテルブルク国立土壌博物館・客員研究員（日本学術振興会）
平成 16 年 10 月～11 月	ブエノスアイレス大学・農学部・客員研究員（同上）
平成 20 年 4 月	首都大学東京大学院・都市環境科学研究科・教授 京都大学・名誉教授
平成 28 年 7 月～10 月	ノルウェー国立生命科学大学・客員教授（ノルウェー学術会議）
平成 29 年 4 月	愛知大学・国際コミュニケーション学部・教授
令和 5 年 4 月 現在に至る	愛知大学・国際問題研究所・上席客員研究員、愛知大学・名誉教授

## AWARDS RECEIVED

Apr-1989	<b>Encouragement Award of Japanese Society of Soil Science and Plant Nutrition</b>
Oct-1997	<b>OKITA Memorial Prize for International Development Research</b>
Apr-2006	<b>Best Paper Award of <i>Soil Science and Plant Nutrition</i></b>
Apr-2007	<b>Best Paper Award, Japanese Society of Pedology</b>
Apr-2009	<b>Best Paper Award, Japanese Society of Pedology</b>
Apr-2010	<b>Japanese Society of Soil Science and Plant Nutrition Award</b>
Apr-2010	<b>Best Paper Award of <i>Soil Science and Plant Nutrition</i></b>
Jun-2010	<b>Honorable Mention Paper Award, American Society of Agricultural and Biological Engineers</b>
Sep-2010	<b>Leading Professor in Research Award, Tokyo Metropolitan University, Japan</b>
Mar-2013	<b>Honorary Member, Japanese Society of Pedology</b>
Apr-2013	<b>Best Paper Award of <i>Japanese Journal of Soil Science and Plant Nutrition</i></b>
Apr-2013	<b>Best Paper Award of <i>Soil Science and Plant Nutrition</i></b>
Jun-2014	<b>Award of Excellence, The First International Soil Judging Contest, International Union of Soil Sciences</b>
Apr-2017	<b>Best Paper Award, Japanese Society of Pedology</b>
Aug-2018	<b>Presidential Award and Dr. Alvaro Barcellos Fagundes Medal, Brazilian Society of Soil Science</b>
Nov-2020	<b>International Soil Science Award, Soil Science Society of America</b>
Nov-2020	<b>Distinguished Service Award, International Union of Soil Sciences</b>
Apr-2022	<b>Japan Prize of Agricultural Science, Association of Japanese Agricultural Scientific Societies</b>
May-2022	<b>The Yomiuri Prize of Agricultural Science, The Yomiuri Shimbun</b>
Mar-2024	<b>ESAFS Award, The East and Southeast Asia Federation of Soil Science Societies</b>

## 受賞歴

平成元年 4 月	第 7 回日本土壌肥料学会奨励賞
平成 9 年 10 月	第 1 回大来賞

土壌調査情報の高度利用に関する研究

西アフリカ・サバンナの生態環境の修復と農村の再生

平成 18 年 4 月	2006 年度 Soil Science and Plant Nutrition Award	Spatial Variability of Organic Matter Dynamics in the Semi-Arid Croplands of Northern Kazakhstan
平成 19 年 4 月	第 4 回日本ペドロロジー学会論文賞	Comparison of different soil classification systems using 5 profiles from different forest ecosystems in Japan
平成 21 年 4 月	第 5 回日本ペドロロジー学会論文賞	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
平成 22 年 4 月	第 55 回日本土壌肥料学会賞	土地資源の特性と分布に関する不確定性の解析とその応用
平成 22 年 4 月	2010 年度 Soil Science and Plant Nutrition Award	Soil microorganisms have a threshold concentration of glucose to increase the ratio of respiration to assimilation
平成 22 年 6 月	Honorable Mention Paper Award, American Society of Agricultural and Biological Engineers	Sediment catcher to trap coarse organic matter and soil particles transported by wind
平成 22 年 10 月	首都大学東京優秀研究教授表彰	
平成 25 年 3 月	日本ペドロロジー学会名誉会員	
平成 25 年 4 月	2013 年度日本土壌肥料学雑誌論文賞	カリウム飽和・乾燥処理によるスメクタイト質土壌のセシウム保持能の向上とその持続性・スメクタイト質土壌とアロフェン質土壌の比較 - "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
平成 25 年 4 月	2013 年度 Soil Science and Plant Nutrition Award	
平成 26 年 6 月	Award of Excellence, The First International Soil Judging Contest, International Union of Soil Sciences	
平成 29 年 4 月	第 9 回日本ペドロロジー学会論文賞	中国内モンゴル自治区フルンボイル草原において観光行動が草原退化に及ぼす影響
平成 30 年 8 月	Presidential Award and Dr. Alvaro Barcellos Fagundes Medal, Brazilian Society of Soil Science	
令和 2 年 11 月	International Soil Science Award, Soil Science Society of America	
令和 2 年 11 月	Distinguished Service Award, International Union of Soil Sciences	
令和 4 年 4 月	2022 年度日本農学賞	土壌情報システムの基盤構築とその応用による土壌の劣化防止と修復に関する研究
令和 4 年 4 月	2022 年度読売農学賞	土壌情報システムの基盤構築とその応用による土壌の劣化防止と修復に関する研究
令和 6 年 3 月	ESAFS Award, The East and Southeast Asia Federation of Soil Science Societies	

## 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 degraded land 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)
- Development of integrated soil management technology towards rehabilitation of degraded soils in the Tropics: JSPS Grant-in-Aid for Scientific Research (2018-2021, \$130,000)
- Can non-tillage practice increase carbon sequestration in Asian volcanic soils?: JSPS Grant-in-Aid for Scientific Research (2020-2024, \$130,000)
- Development of comprehensive soil education package for achieving SDGs: JSPS Grant-in-Aid for Scientific Research (2023-2027, \$100,000)

## 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

- Associations of Japanese Agricultural Scientific Societies (**Vice-President**, 2024-2025)
- The IUSS Subcommittee, Science Council of Japan (**Chair**, 2020-2023)

- 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)  
(**Past President**; 2021-2022, **President**; 2019-2020, **President-elect**; 2017-2018, **Chair** of Division 3; 2015-2016, **Vice-Chair** of Commission 3.5; 2008 to 2014)
- Soil Science Society of America (30 years Anniversary; 2024)
- *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)



## PUBLICATIONS (業績)

### Books (著書)

- 1 Kosaki, T. and Watanabe, K. (Eds.) 2008: Evaluation and management of soil fertility. Hakuyusha Publishing Co., Ltd., Tokyo, 150p. (in Japanese) 小崎隆, 渡辺和彦編 2008 : 土壌肥沃度の評価と管理－食料生産と環境保全の両立に向けて－, 博友社, 東京, 150p
- 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** and **ESAFS**)
- 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** and **ESAFS**)
- 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** and **ESAFS**)
- 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** and **ECSSS**)
- 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) 日本土壌肥料学会 (会長小崎隆) 2015 : 世界の土・日本の土は今－地球環境・異常気象・食料問題を土から見ると－, 農山漁村文化協会, 東京, 128p
- 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**)
- 9 Lal, R., Horn, R. and Kosaki, T. (Eds.) 2018: Soil and Sustainable Development Goals. Catena-Schweizerbart, Stuttgart, 196p. (published under the auspices of **IUSS**)
- 10 Kosaki, T., Lal, R. and Reyes Sanchez, L.B. (Eds.) 2020: Soil Sciences Education - Global concepts and teaching. Schweizerbart Publ. Co. Ltd., Stuttgart, 198p. (published under the auspices of **IUSS**)

## Refereed Original Articles (原著論文)

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- 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) 舟川晋也, 小崎隆, 鈴木玲治, 石田紀郎 1996: カザフスタン大規模灌漑農地における土壌塩性化の実態, *農業土木学会誌*, 64(10), 1017-1021
- 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) 川田麻子, 伊丹勝彦, 久馬一剛, 小崎隆 1996: 粘土の分散性に対する有機物の影響—日置川造成農地の事例—, *土壌の物理性*, 75, 31-38
- 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(6), 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, Kazakhstan. *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 舟川晋也, 小崎隆 1999 : 中央アジア大規模灌漑農地における土壌塩性化の実態, *水文・水資源学会誌*, 12(1), 60-65
- 26 Hirata, 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) 平田昌弘, 真常仁志, 北川政幸, 石田定顕, 小崎隆, 宮崎昭 1999 : カザフスタン共和国の家畜生産と農民経営の動向, *沙漠研究*, 9(2), 125-134
- 27 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
- 28 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
- 29 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
- 30 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
- 31 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
- 32 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

- 33 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
- 34 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) 矢内純太, 李忠根, 梅田幹雄, 小崎隆 2000 : ジオスタティスティクスを用いた水田における土壌化学特性値の空間変動解析, *日本土壌肥料学雑誌*, 71(4), 520-529
- 35 Moritsuka, N., Yanai, J., and Kosaki, T. 2000: Non-destructive method for determining temporal and spatial changes of the soil solution chemistry in the rhizosphere. *Soil Sci. Plant Nutr.*, 46(3), 713-719
- 36 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
- 37 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) 光永歩, 矢内純太, 小崎隆 2000 : 造成農地における熟畑化規定要因の解析, *日本土壌肥料学雑誌*, 71(5), 666-673
- 38 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
- 39 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
- 40 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
- 41 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.
- 42 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
- 43 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) 李忠根, 矢内純太, 下保敏和, 飯田訓久, 梅田幹雄, 小崎隆, 松井勤 2001 : 水田におけるほ場マップの作成, *農業機械学会誌*, 63(5), 45-52
- 44 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
- 45 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) 矢内純太, 李忠根, 下保敏和, 飯田訓久, 松井勤, 梅田幹雄, 小崎隆 2002 : 水田における土壌特性値と水稻収量の空間変動解析および収量規定要因の解析, *日本土壌肥料学雑誌*, 73(5), 477-484

- 46 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
- 47 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
- 48 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 N<sub>2</sub>O emissions and their soil-related determining factors in an agricultural field. *J. Environ. Qual.*, 32, 1965-1977
- 49 Anwar, S., Kosaki, T. and Yonebayashi, K. 2004: Cupric oxide oxidation products of tropical peat soils. *Soil Sci. Plant Nutr.*, 50(1), 35-43
- 50 Moritsuka, N., Yanai, J. and Kosaki, T. 2004: Possible processes releasing nonexchangeable potassium from the rhizosphere of maize. *Plant and Soil*, 258, 261-268.
- 51 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
- 52 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
- 53 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
- 54 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
- 55 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
- 56 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.
- 57 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
- 58 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> <2006年度SSPN Award>**
- 59 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> <第4回日本ペドロロジー学会論文賞>**
- 60 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
- 61 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
- 62 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



- 63 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
- 64 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
- 65 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
- 66 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
- 67 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>** **<第5回日本ペドロロジー学会論文賞>**
- 68 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
- 69 Watanabe, T., Funakawa, S. and Kosaki, T. 2006: Clay mineralogy and its relationship to soil solution composition in soils from different weathering environment of humid Asia: Japan, Thailand and Indonesia. *Geoderma*, 136, 51-63
- 70 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
- 71 Funakawa, S., Minami, T., Hayashi, Y., Naruebal, S., Noichana, C., Panitkasate, T., Katawatn, 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
- 72 Funakawa, S., Suzuki, R., Kanaya, S., Karbozova-Salnikov, 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
- 73 Takata, Y., Funakawa, S., Akshalov, K., Ishida, N. and Kosaki, T. 2007: Influence of land use on the dynamics of soil organic carbon in northern Kazakhstan. *Soil Sci. Plant Nutr.*, 53(2) 162-172
- 74 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
- 75 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
- 76 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
- 77 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

- 78 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
- 79 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
- 80 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) 矢内純太, 松原倫子, 李忠根, 森塚直樹, 真常仁志, 小崎隆 2008 : 土壌診断のための水田土壌の合理的サンプリング法の検討ー土壌のサンプリング頻度とデータの信頼性との関係ー, *日本土壌肥料学雑誌*, 79(1), 61-67
- 81 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
- 82 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
- 83 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>**   **<2010年度 SSPN Award >**
- 84 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
- 85 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
- 86 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
- 87 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
- 88 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
- 89 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
- 90 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
- 91 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
- 92 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

- 93 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
- 94 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
- 95 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
- 96 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.
- 97 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.
- 98 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)
- 99 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>**
- 100 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
- 101 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.
- 102 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) 角野貴信, 小崎隆 2010: 土壌有機炭素動態モデルにおける「測定可能な」炭素プールー炭素循環の「見える化」, *観光科学研究*, 3, 79-88
- 103 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
- 104 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
- 105 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
- 106 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
- 107 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



- 108 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
- 109 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
- 110 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
- 111 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.
- 112 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) 沢田こずえ, 舟川晋也, 小崎隆 2011 : 土壌微生物のグルコース利用効率に関する要因の検証. *土と微生物*, 65(1), 41-48
- 113 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)
- 114 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.>** 中尾 淳, 武田晃, 塚田祥文, 舟川晋也, 小崎隆 2011 : カリウム飽和・乾湿処理によるスメクタイト質土壌のセシウム保持能の向上とその持続性—スメクタイト質土壌とアロフェン質土壌の比較—, *日本土壌肥料学雑誌*, 82(4), 290-297 **<2013年度日本土壌肥料学雑誌論文賞>**
- 115 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>** **<2013年度SSPN Award>**
- 116 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
- 117 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
- 118 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.*, 75(5) 1885-1897
- 119 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

- 120 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
- 121 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
- 122 Sugihara S., Funakawa, S., Kilasara M., and Kosaki, T. 2012: Effect of land management on CO<sub>2</sub> flux and soil C stock in two Tanzanian croplands with contrasting soil texture. *Soil Biol. Biochem.*, 46, 1-9
- 123 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) 伊ヶ崎健大, 真常仁志, 田中樹, 岩井香泳子, 小崎隆 2012 : 西アフリカ・サヘル地域における草本植生劣化指標としての空間的ばらつきの可能性, *観光科学研究*, 5, 15-21
- 124 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) 曹楽, 斯日古楞, 伊ヶ崎健大, 角野貴信, 小崎隆 2012 : 中国内モンゴル自治区のフルンボイル草原における観光行動が植生に及ぼす影響, *観光科学研究*, 5, 71-79
- 125 Fujii K, Funakawa S, Kosaki T. 2012: Soil acidification: natural process and human impacts. *Pedologist*, 55(3), 415-425
- 126 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
- 127 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
- 128 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.
- 129 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
- 130 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
- 131 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) 伊ヶ崎健大, 大前 英, 南雲不二男, 岩井香泳子, 小崎隆 2013 : 沖縄における陸域での新たなサンゴ保全技術の開発, *観光科学研究*, 6, 17-23
- 132 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) 斯日古楞, 曹楽, 伊ヶ崎健大, 角野貴信, 小崎隆 2013 : 中国内モンゴル自治区のフルンボイル草原における小規模観光行動が植生に与える影響, *観光科学研究*, 6, 53-59

- 133 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) 伊ヶ崎健大, 田中(高橋)美穂, 佐々木夕子, 小崎隆 2013: 砂漠化問題に対する理解を促すためのエコツアーの開発, 観光科学研究, 6, 127-134
- 134 Fujii, K., Funakawa, S., Hayakawa, C., and Kosaki, T. 2013: Fluxes of dissolved organic carbon and nitrogen in cropland and adjacent forests in a clay-rich Ultisols of Thailand and a sandy Ultisol of Indonesia. Soil and Tillage Research 126, 267-275
- 135 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
- 136 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
- 137 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
- 138 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.
- 139 Hayakawa, C., Funakawa, S., Fujii, K., Kadono, A., and Kosaki, T. 2014: Effects of climatic and soil properties on cellulose decomposition rates in temperate and tropical forests. Biology and Fertility of Soils. 50(4), 633-643
- 140 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
- 141 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) 伊ヶ崎健大, 大前英, 南雲不二男, 岩井香泳子, 小崎隆 2015: 沖縄における陸域での新たなサンゴ保全技術の開発 第2報「シカクマメバンド」の最適化, 観光科学研究, 8, 91-97
- 142 Sugihara S., Funakawa S., Kadono A., Takata Y., Sawada K., Fujii K., Kosaki T. 2015: In situ short-term dynamics of CO<sub>2</sub> flux and microbial biomass after simulated rainfall in dry croplands in four tropical and continental ecosystems. Soil Sci. Plant Nutr., 61(3), 392-403
- 143 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
- 144 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) 斯日古楞, 伊ヶ崎健大, 角野貴信, 曹樂, 康峪梅, 揚俊, 都瓦拉, 梅榮, 小崎隆 2015: 中国内モンゴル自治区の牧畜業において土地利用様式の違いが植生及び土壌に与える影響, ペドロジスト, 59(2), 41-51
- 145 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) <Best Paper Award of Japanese Society of

**Pedology in 2016**> 曹楽, 伊ヶ崎健大, 角野貴信, 斯日古楞, 杉原創, 小崎隆 2015 : 中国国内モンゴル自治区フルンボイル草原において観光行動が草原退化に及ぼす影響, ペドロジスト, 59(2), 52-62 <2016年度日本ペドロロジー学会論文賞>

- 146 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) 杉原創, 本田武義, 藤井一至, 舟川 晋也, 岩井 香泳子, 小崎 隆 2016 : 酒米と栽培土壌の化学的性質は関係するの  
か? 兵庫県の事例, 観光科学研究, 9, 125-129
- 147 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
- 148 Sawada, K., Funakawa, S., Kosaki, T. 2017. Effect of repeated drying–rewetting cycles on microbial biomass carbon in soils with different climatic histories. Appl. Soil Ecol., 120, 1–7.
- 149 Sawada K., Inagaki Y., Toyota K., Kosaki T., Funakawa S. 2017. “Substrate-induced respiration responses to nitrogen and/or phosphorus additions in soils from different climatic and land use conditions.” Eur. J. Soil Biol. 83, 27-33.
- 150 Sugihara, S., Shibata, M., Mvondo, Ze A., Araki, S., Kosaki, T., and Funakawa, S. 2017: Soil phosphorus of stable fraction differentially associate with carbon in the tropical forest and savanna of eastern Cameroon. Soil Science and Plant Nutrition, 63(6), 616-627
- 151 Fujii, K., Hayakawa, C., Panitkasate, T., Maskhao, I., Funakawa, S., Kosaki, T., & Nawata, E. 2017: Acidification and buffering mechanisms of tropical sandy soil in northeast Thailand. Soil and Tillage Research, 165, 80-87.
- 152 Tashiro, Y., Nakao, A., Wagai, R., Yanai, J., and Kosaki, T. 2018: Inhibition of radiocesium adsorption on 2:1 clay minerals under acidic soil. Geoderma, 319, 52-60
- 153 Hayakawa, C., Fujii, K., Funakawa, S. and Kosaki, T. 2018: Effects of sorption on biodegradation of low-molecular-weight organic acids in highly-weathered tropical soils. Geoderma, 324, 109-118
- 154 Sugihara, S., Fujimori, Y., Shibata, M., Sawada, K., Tanaka, H., Mvondo Ze, A.D., Araki, S., Kosaki, T. and Funakawa, S. 2018: Effect of 3-year cultivation on the soil nutrient status in a tropical forest and savanna of Central Africa, as determined by the microbial responses to substrate addition. Soil Science and Plant Nutrition, 64(6), 728-735
- 155 Sawada, K., Funakawa, S. and Kosaki, T. 2019: Immediate and subsequent effects of drying and rewetting on microbial biomass in a paddy soil. Soil Science and Plant Nutrition, 65(1), 28-35
- 156 Sugihara S., Shibata M., MVondo Ze A., Tanaka H., Kosaki T., Funakawa S. 2019: Forest understories controlled the soil organic carbon stock during the fallow period in African tropical forest: a <sup>13</sup>C analysis. Scientific Reports 9, Article number: 9835. /10.1038/s41598-019-46406-2
- 157 Nakao, A., Tomita, M., Wagai, R., Tanaka, R., Yanai, J., Kosaki, T. 2019: Asian dust increases radiocesium retention ability of serpentine soils in Japan. Journal of Environmental Radioactivity, 204, 86-94. <https://doi.org/10.1016/j.jenvrad.2019.03.028>
- 158 Fujii K., Hayakawa C., Sukartiningih, Inagaki Y, Kosaki T. 2019: Effects of land use change on turnover and storage of soil organic matter in a tropical forest. Plant and Soil, 446(1-2), 1-15. <https://doi.org/10.1007/s11104-019-04367-5>
- 159 藤井一至, 松浦陽次郎, 菅野均志, 高田裕介, 平舘俊太郎, 田村憲司, 平井 英明, 小崎隆 2019 : 高等学校地理科目における土壌教育内容の更新の必要性, ペドロジスト, 63(2), 73-81

- 160 Fujii, K., Nakada, Y., Umezawa, K., Yoshida, M., Shibata, M., Hayakawa, C., Inagaki, Y., Kosaki, T. and Hangs, R. 2020: A comparison of lignin-degrading enzyme activities in forest floor layers across a global climatic gradient. *Soil Ecology Letters*, 2, 281-294
- 161 Lal, R., Brevik, E., Dawson, L., Field, D., Glaser, B., Hartemink, A., Hatano, R., Lascelles, B., Monger, C., Scholten, T., Singh, B., Spiegel, H., Terribile, F., Basile, A., Zhang, Y., Horn, R., Kosaki, T. and Sanchez, L. 2020: Managing soils for recovering from the COVID-19 pandemic. *Soil Systems*, 4, Article No. 46: doi:10.3390/soilsystems4030046
- 162 Nakao, A., Uno, S., Yanai, J., Kubotera, H., Tanaka, R., Root, R.A. and Kosaki, T. 2021: Distance-dependence from volcano for Asian dust inclusions in Andosols: A key to control soil ability to retain radiocesium. *Geoderma*, 385, Article No. 114889; doi: j-geoderma.2020.114889
- 163 Lal, R., Bouma, J., Brevik, E., Dawson, L., Field, D.J., Glaser, B., Hatano, R., Hartemink, A.E., Kosaki, T., Lascelles, B., Monger, C., Muggler, C., Ndzana, G.M., Norra, S., Pan, X., Paradelo, R., Reyes-Sanchez, L.B., Sanden, T., Singh, B.R., Spiegel, H., Yanai, J. and Zhang, J. 2021: Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. *Geoderma Regional*, 25, Article No. e00398; doi: 10.1016/j.geodrs.2021.e00398
- 164 Fujii, K., Funakawa, S., Hayakawa, C. and Kosaki, T. 2021: Effects of clearcutting and girdling on soil respiration and fluxes of dissolved organic carbon and nitrogen in a Japanese cedar plantation. *Forest Ecology and Management*, 498, Article No. 119520; doi: 10.1016/j.foreco.2021.119520
- 165 Fjii, K., Mitani, R., Inagaki, Y., Hayakawa, C., Shibata, M. and Kosaki, T. 2022: Continuous maize cropping accelerates loss of soil organic matter in northern Thailand as revealed by natural <sup>13</sup>C abundance. *Plant and Soil*, 474, 251–262. doi: 10.1007/s11104-022-05363-y
- 166 Sano, S., Yanai, J., Kadono, A., Uchiyama, T., Akrich, H., Arakawa, R., and Kosaki, T. 2024: Cost-effective separation of light fraction containing organic matter and charcoal material from agricultural soils using calcium chloride solution. *Soil Sci. Plant Nutr.*, 70(3). doi: 10.1080/00380768.2024.2320859



## Refereed Chapters and Reviews (分担執筆著書・総説など)

- 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) 久馬一剛, 永塚鎮男, 浜崎忠雄, 井上隆弘, 小崎隆 1985: 進歩総説; 土壌生成, 分類および調査, 日本土壌肥料学雑誌, 56, 552-560
- 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 小崎隆 1987: 西アフリカの低地土壌と農業, 北海道土壌肥料研究通信, 89, 7-18
- 5 小崎隆 1988: 作物生産環境モニタリングシステムーその構造と機能, 北海道土壌肥料研究通信 第35回シンポジウム特集号, 1-9
- 6 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
- 7 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
- 8 Kosaki, T. 1989: Soil data collection and its data base construction, Pedologist, 33, 144-145 (in Japanese) 小崎隆 1989: 土壌情報の収集とデータベースの構築, ペドロジスト, 33, 144-154
- 9 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) 小崎隆 1990: 世界の土, 「土の世界編集グループ」編, 土の世界, 朝倉書店, 27-28
- 10 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) 小崎隆 1990: 土の内申書, 「土の世界編集グループ」編, 土の世界, 朝倉書店, 90-93
- 11 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,
- 12 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) 小崎隆, 浜崎忠雄, 平井英明, 安西徹郎 1996: 進歩総説: 土壌生成・分類・調査, 日本土壌肥料学会誌, 第67巻(第5号) 526-535
- 13 Kosaki, T. 1997: Classification of soils, In Kyuma, K. (Ed.) Contemporary Soil Science, Asakura Publishing Co., Ltd., Tokyo, Japan (in Japanese) 小崎隆 1997: 土壌の分類, 久馬一剛編, 最新土壌学, 朝倉書店, 東京
- 14 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) **<OKITA Memorial Prize for International Development Research>** 小崎隆 1997: 粘土鉱物の特性, 廣瀬昌平・若月利之編, 西アフリ

カ・サバンナの生態環境の修復と農村の再生，農林統計協会，東京，123-125 <第1回大来賞>

- 15 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) 小崎隆 1998: わが国の土壌，興水 肇・吉田博宣編，緑を創る植栽基盤－その整備手法と適応事例－，ソフトサイエンス社，東京，10-28
- 16 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
- 17 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) 小崎隆，中井信，舟川晋也 1999: 進歩総説：土壌生成・分類，日本土壌肥料学会誌，第70巻（第5号）665-671
- 18 Kato, Y. and Kosaki, T. 1999: Review; Research progress in land evaluation, Jpn. J. Soil Sci. Plant Nutr., 70(5), 671-673 (in Japanese) 加藤好武，小崎隆 1999: 進歩総説：土地分類利用・景域評価，日本土壌肥料学会誌，第70巻（第5号）671-673
- 19 Yanai, J. and Kosaki, T. 2000: Pedometrics; Principles and application. 1. How to prepare isarithm maps using geostatistics, Jpn. J. Soil Sci. Plant Nutr., 71(5), 726-732 (in Japanese) 矢内純太，小崎隆 2000：ペドメトリックスーその理論と応用－ 1. 等値線図はどのようにしてつくるの？：ジオスタティスティクス，日本土壌肥料学会誌，71(5)，726-732
- 20 Kosaki, T., Inubushi, K., Kato, H., Ishi, H. and Matsumoto, S. 2000: Man, soil and environment in the 21<sup>st</sup> Century, Jpn. J. Soil Sci. Plant Nutr., 71(6), 934-937 (in Japanese) 小崎隆，犬伏和之，加藤尚武，石弘之，松本聡 2000：21世紀における「人」・「土」・「環境」，日本土壌肥料学会誌，第71巻（第6号），934-937
- 21 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) 長縄貴彦，小崎隆 2001：ペドメトリックスーその理論と応用－ 3. ここは黒ボク土？ グライ土？ うーん、黒ボクグライ土！：ファジー理論，日本土壌肥料学会誌，72(1)，108-113
- 22 Kosaki, T. 2001: Classification of tropical soils, In Kyuma, K. (Ed.) Tropical Soil Science, Nagoya University Press, Nagoya (in Japanese) 小崎隆 2001: 熱帯土壌とその分類，久馬一剛編，熱帯土壌学，名古屋大学出版会，名古屋
- 23 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
- 24 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) 舟川晋也，小崎隆 2002：アラル海地域の砂漠化，不破敬一郎・森田昌敏編，地球環境ハンドブック，朝倉書店，東京，708-717
- 25 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) 中井信，南條正巳，浜崎忠雄，小原洋，小崎隆，小牧雅 2002：土壌肥料学におけるIT戦略－環境情報インベントリー－，日本土壌肥料学雑誌，73(1)、65-68
- 26 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)  
 小崎隆 2003 : エコ・フレンドリーな食料生産とはいったいなのか?, 京都大学農学部・農学研究科編, 京都大学農学部・農学研究科80周年記念誌, 京都大学農学部・農学研究科, 京都, 90-94
- 27 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) 真常仁志・小崎隆 2005 : 森林生態系の炭素循環と土壌有機物, 木村真人・波多野隆介編, 土壌圏と地球温暖化, 名古屋大学出版会, 名古屋, 51-68
  - 28 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) 真常仁志・小崎隆 2005 : 日本の森林における土壌呼吸の季節変動と炭素収支, 木村真人・波多野隆介編, 土壌圏と地球温暖化, 名古屋大学出版会, 名古屋, 71-82)
  - 29 Funakawa, S. and Kosaki, T. 2005: Characterization and distribution of soils of Kazakhstan Steppe, Pedologist, 49(1), 52-66 (in Japanese) 舟川晋也, 小崎隆 2005 : カザフスタンステップ地帯に分布する土壌の特性, ペドロジスト, 49(1), 52-66
  - 30 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
  - 31 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) 真常仁志, 小崎隆 2007 : 2.1.地盤にかかわる地球環境問題, 嘉門雅史・日下部治・西垣誠編, 環境地盤工学ハンドブック、朝倉書店, 東京, 19-25
  - 32 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) 真常仁志, 小崎隆 2007 : 土壌侵食, 嘉門雅史・日下部治・西垣誠編, 環境地盤工学ハンドブック, 朝倉書店, 東京, 25-36
  - 33 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) 真常仁志, 小崎隆 2007 : 塩類化, 嘉門雅史・日下部治・西垣誠編, 環境地盤工学ハンドブック, 朝倉書店, 東京, 36-41
  - 34 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) 小崎隆 2008 : アフリカの土壌の特徴, 斉藤龍一郎・田中清文・吉田昌夫編, アフリカの食料安全保障を考える, アフリカ日本協議会, 東京38-48
  - 35 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) 小崎隆, 渡辺和彦, 佐野修司, 矢内純太, 鳥山和伸, 松本真吾, 阿江教治, 三島慎一郎 2008 : 土壌肥沃度の評価・管理に関する新展開ー土壌窒素と農業・環境ー, 日本土壌肥料学雑誌, 79(1), 113-118



- 36 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) 舟川晋也, 小崎隆, 矢内純太 2008: アジアにおける多様な土壌と我が国ペドロジストによる研究の最前線 1. カザフスタンにおける最新土壌研究－乾燥地・半乾燥地における持続的土地利用とは何か?－, 日本土壌肥科学雑誌, 79(4), 399-407
- 37 Watanabe, T., Funakawa, S. and Kosaki, T. 2009 : Distribution of Clay Minerals in Upland Soils under Different Weathering Conditions of Humid Asia, In McLaughlin, E.D. and Breaux, L.A. (Eds.), Chemical Mineralogy, Smelting and Metallization, Nova Science Publishers Inc., New York, 19-56
- 38 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
- 39 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
- 40 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) 小崎隆 2012: 農における業（なりわい）と業（ごう）の調整, 日本農学会編, 環境の保全と修復に貢献する農学研究, 養賢堂, 東京, 159-163
- 41 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
- 42 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
- 43 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) 伊ヶ崎健大, 小崎隆 2015 : 自然ツーリズム学の基礎としての土壌学, 菊地俊夫・有馬貴之編, 自然ツーリズム学, 朝倉書店, 東京, 34-45
- 44 小崎隆 2015 : 世界の土壌はいま, 科学, 85(11), 1076-108
- 45 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) 小崎隆 2016 : 百億人時代における土壌の役割, 日本農学会編, 国際土壌年2015と農学研究－社会と命と環境をつなぐ－, 養賢堂, 東京, 1-16
- 46 小崎隆・矢内純太 2018: 世界の土壌, 木村真人・南條正巳編, 土壌サイエンス入門（第2版）, 文永堂, 194-202
- 47 小崎隆 2020: 土地資源利用の適正化による持続可能な社会の実現, 大政謙次他編, 持続可能な社会への道, 日本学術協力財団, 55-74

- 48 Mori, K., Hirai, H., and Kosaki, T. (2020) Guidelines for introducing essence of soil science in pre and primary school children. In Kosaki, T. et al. (eds.) Soil Sciences Education - Global concepts and teaching. Schweizerbart Publ. Co. Ltd., Stuttgart, 21-30
- 49 Nakatsuka, H. and Kosaki, T. 2023: Practical investigation of soil profile. 7. Overseas soil survey. Jpn. J. Soil Sci. Plant Nutr., 94(4), 268-275 (in Japanese) 中塚博子・小崎隆 2023：土壌断面調査の実際 7. 海外における土壌断面調査の実際, 日本土壌肥科学雑誌, 94(4), 268-275

## Selected Refereed Conference Papers and Keynotes Presentations (国際会議招待講演など)

- 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 12-18, Kyoto, Japan, 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 (jointly organized as **the 2nd International Conference of East and Southeast Asia Federation of Soil Science Societies (ESAFS)** )
- 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 Yellow sand 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., Yanai, J., Shinjo, H., Lee, C.K., Moritsuka, N. and Matsubara, T. 2005: Spatio-temporal variability of soil properties in a paddy field - Implications to management - **the 7th International Conference of ESAFS**, May 29-31, Quezon City, Philippines
- 16 Kosaki, T., Funakawa, S., Akshalov, K.K., Takata, Y. 2006: Is “Summer Fallowing” beneficial to sustainable grain production in Central Asia?, **18th WCSS**, July 9-15, Philadelphia, USA
- 17 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
- 18 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)
- 19 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)
- 20 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)
- 21 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)
- 22 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Funakawa, S. and Kosaki, T. 2014: “Fallow Band System”, a Do-nothing Practice for Controlling Desertification and Improving Crop Production in the Sahel, West Africa. **20th WCSS**, Jeju, Korea
- 23 Kosaki, T. 2016: Land use strategy for sustaining our soil resources and society: A case of grain production in Kazakhstan, Central Asia. International Scientific Conference “Long-term Agroecosystem Sustainability: Links between Carbon Sequestration in Soils, Food Security and Climate Change” AGROECO 2016, October 4-6, 2016, Kaunas, Lithuania.
- 24 Kosaki, T. 2016: Land degradation and abiotic stress management. International Conference on Integrated Land Use Planning for Smart Agriculture - An Agenda for Integrated Land Management

- (ICILUPSA-2016), November 10-13, 2016, Nagpur, India.
- 25 Kosaki, T. 2016: Prospective innovations in land management for food security and agribusiness: Is precision agriculture or site-specific soil management beneficial? International Conference Scientific-Education Collaboration in Soil Science and Food Security. December 6, 2016, Moscow, Russia
  - 26 Kosaki, T. 2017: Soils research for sustainable development of our society. The 20<sup>th</sup> Dokuchaev Conference for Young Scientists” «Soil and Sustainable Development of State», March 1-4, 2017, St. Petersburg, Russia
  - 27 Kosaki, T. 2017: Challenges and opportunities of soil research and development in the 21st Century. The 17<sup>th</sup> Annual Conference of Ethiopian Society of Soil Science. March 31, 2017, Addis Ababa, Ethiopia
  - 28 Kosaki, T. Matoh, T. Inubushi, K. and Sakurai, K. 2017: Contribution of Japanese Soil Science Societies to scientific knowledge, education and sustainability. European Geosciences Union General Assembly. April 23-28, Vienna, Austria
  - 29 Kosaki, T. 2017: Soils in anthropized conditions: A challenge in the International Decade of Soils 2015-2024. International Conference SUITMA9 “Urbanization: A Challenge and an Opportunity for Soil Functions and Ecosystems Services” May 22-26, 2017, Moscow, Russia
  - 30 Kosaki, T. 2017: Revitalisation of degraded soils - A challenge in International Decade of Soils (IDS) for achieving Sustainable Development Goals (SDGs). International Conference “Degradation and Revitalisation of Soil and Landscape” organized by V4 countries. September 10-13, 2017, Olomouc, Czech Republic
  - 31 Kosaki, T., Tanaka, H., Mori, K. and Hirai, H. 2018: Collaboration between International Union of Soil Sciences and national societies in promoting soil education and public awareness as a pillar of International Decade of Soils (IDS): A good practice of “Shiny Soil Balls” in Japan. **21st WCSS**, August 12-17, Rio de Janeiro, Brazil
  - 32 Kosaki, T. 2018: Towards further collaboration between Ukrainian Society of Soil Scientists and Agrochemists and International Union of Soil Sciences (IUSS). The 11<sup>th</sup> Congress of Soil Scientists and Agrochemists of Ukraine, September 17-21, 2018, Kharkiv, Ukraine
  - 33 Kosaki, T. 2018: Need for enhancing collaboration between national/regional societies and IUSS to advance International Decade of Soils (IDS). The 3<sup>rd</sup> Eurasian Soil Congress on “Environment and Soil Resources Conservation” October 17-19, 2018, Almaty, Kazakhstan
  - 34 Kosaki, T. 2018: Soil education to advance sustainable life and soil health. 2018 Korean Society of Soil Science and Fertilizer (KSSSF) Conference for Celebrating the 50th Anniversary. October 24-26, 2018, Kyung-Ju, Korea
  - 35 Kosaki, T. 2018: Combat against soil degradation to advance Sustainable Development Goals (SDGs) in International Decade of Soils (IDS). The 30<sup>th</sup> Post Graduate Institute of Agriculture Annual Congress, November 15-16, 2018, Kandy, Sri Lanka
  - 36 Kosaki, T. 2019: Towards wise use of natural resources to enhance Sustainable Development Goals (SDGs) in International Decade of Soils (IDS) Initiative of IUSS. The 22<sup>nd</sup> Dokuchaev Conference for Young Scientists «Soil is the System of Functional Connections in Nature» devoted to the 150th Anniversary of the Discovery of Mendeleev Periodic Law of Chemical Elements, February 25-March 1-3, 2019, St. Petersburg, Russia
  - 37 Kosaki, T. 2019: Sustainable management of cultural landscapes and soil science perspectives. Workshop “Soils, Landscape and Culture”, February 28, 2019, S. Agata Militello, Italy
  - 38 Kosaki, T. 2019: Judicious management of land resources towards sustainable environment and food security. International Seminar and Congress of Indonesian Soil Science Society, August 5-7, 2019, Bandung, Indonesia



- 39 Kosaki, T. 2019: Harmonization of natural and agricultural soil systems for sustaining society. First Joint Meeting on Soil and Plant System Sciences “Natural and Human-induced Impacts on the Critical Zone and Food Production” by Italian Society of Agricultural Chemistry, Italian Society of Pedology and Italian Society of Soil Science, September 23-26, 2019, Bari, Italy
- 40 Kosaki, T. 2019: Freedom from land degradation - Towards enhancing human security and achieving sustainable development goals-, 9th International Congress “Soil's Contribution to People: from Food to Life Supporting Services” by European Society for Soil Conservation, September 26-28, 2019, Tirana, Albania
- 41 Kosaki, T. 2019: Judicious land management for achieving Sustainable Development Goals (SDGs). Webinar by Soil Science Australia, October 4, 2019, Adelaide, Australia
- 42 Kosaki, T. 2019: Diversification of land management: Clue for sustaining agricultural production and human security. XXII Congress of Latin American Society of Soil Science “Diversity of Production: Pillar for Sustainable Soil Management”, October 7-11, Montevideo, Uruguay
- 43 Kosaki, T. 2019: Evaluation and management of soil fertility in the SDGs context. XLIV Mexican Soil Science Congress, October 28-31, 2019, Aguascalientes, Mexico
- 44 Hirai, H., Deguchi, A., Shiraishi, T. and Kosaki, T. 2019: Soil education for pre- and elementary-school children towards setting an international standard. – How to convey the importance of top soil to support life from the viewpoint of daily rice consumption. **The 14<sup>th</sup> International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS)**, November 3-7, 2019, Taipei, Taiwan
- 45 Kosaki, T. 2020: Site specific fertilizer management for enhancing sustainability and productivity of soil resources. The 2<sup>nd</sup> International Conference on Sustainability – Innovation and Diversification, January 31-February 2, Pune, India
- 46 Kosaki, T. 2020: How International Union of Soil Sciences (IUSS) contributes to new research dynamics in society development? International research conference “Living values of the university in globalizing world” and International symposium “New research dynamics in society development”, February 6-8, 2020, Moscow, Russia
- 47 Kosaki, T. 2020: Soils in the humid tropics: Degradation processes and strategies for remediation. The 1st International Conference on Sustainable Tropical Land Management (ICSTLM) 2020, September 16, 2020, Jakarta, Indonesia.
- 48 Kosaki, T. 2020: Utilization of current digital technologies and way forward in agriculture and environment in a changing world. Soil Science Conference of Malaysia, October 6, Johor Bahru, Malaysia.
- 49 Kosaki, T. 2021: Towards the alliance for environmental education to achieve SDGs. International Science Council (ISC) Members’ Forum, October 11, Paris, France
- 50 Kosaki, T. 2021: Towards judicious management of peatlands for enhancing SDGs. International Seminar Tropical Peatland (ISTP) ,, October 21, Bogor, Indonesia.
- 51 Nakao, A., Terashima, M., Elliott, C., Wampler, M., Tanaka, R., Yanai, J. and Kosaki, T. 2022: K-Ar dating and oxygen isotopic analysis for tracing Asian dust inclusion in aeolian depositions during the last glacier period. **22<sup>nd</sup> WCSS**, July 31-August 5, Glasgow, UK
- 52 Ikazaki, K., Shinjo, H., Tanaka, U., Tobita, S., Fatondji, D., Funakawa, S. and Kosaki, T. 2023: Fallow Band System - a do-nothing practice for nutrient management in the Sahelian sandy soils, West Africa. Global Conference on Sandy Soils, June 4-8, Madison, USA.
- 53 Kosaki, T., Asano, Y., Mori, K., Kadono, A., Asano, M., Toyota, A., Niwa, K. and Osawa, S. 2024: Development of comprehensive soil education package for achieving SDGs. **The 16<sup>th</sup> International**

**Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS)**, March 26-29, Thai Nguyen, Vietnam

- 54 Kosaki, T., Inubushi, K. and Fujiwara, T. 2024: Development of Soil Sciences in Japan. Centennial Congress of IUSS, May 20-22, Florence, Italy
-

**Citations**

Google Scholar (as of August 1, 2024)

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<b>Citation indices</b>	<a href="#">All</a>
Citations	5066
h-index	38
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## INTERNATIONAL SYMPOSIUMS AND ACADEMIC TOURS ORGANIZED

(主宰した国際シンポジウム／巡検)

- 1 Inoue, T., Otowa, M. and Kosaki, T. 1990: Pre-congress tour in Hokkaido, Japan, The **14th International Congress of Soil Science, ISSS**, Kyoto, Japan
- 2 Kosaki, T., Araki, S. and Kyuma, K. 1991: Post-conference tour in Southwest Japan, The **1st East and Southeast Asian Federation of Soil Science Societies (ESAFS)**
- 3 Kosaki, T. and Choi, W. 2009: “Challenges of Soil Degradation Towards Sustaining Life and Environment”, October 28, Seoul, Korea. (jointly organized by **ESAFS**, **Commission 3.5, International Union of Soil Sciences (IUSS)**, Tokyo Metropolitan University, and Japanese Society of Pedology)
- 4 Naidu, R., Bolan, N., and Kosaki, T. 2010: “Remediation of Heavy Metal Contaminated Soils”, August 1-6, Brisbane, Australia. (jointly organized by **19th World Congress of Soil Science, IUSS**, Tokyo Metropolitan University, Japanese Society of Pedology)
- 5 Naidu, R., Bolan, N., and Kosaki, T. 2010: “Risk Assessment and Risk-based Approaches to Remediation”, August 1-6, Brisbane, Australia. (jointly organized by **19th World Congress of Soil Science, IUSS**, Tokyo Metropolitan University, Japanese Society of Pedology)
- 6 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)
- 7 Kosaki, T., Gicheru, P. and Indratne, S.P. 2011: “Land Degradation & Management”, October 10-13, Colombo, Sri Lanka. (jointly organized by **ESAFS**, **Commission 3.5, IUSS**, Tokyo Metropolitan University, and Japanese Society of Pedology)
- 8 Gicheru, P., Kosaki, T., Horn, R., and Senesi, N. 2012: “Soil Erosion and Degradation on Agricultural Land”, July 2-6, Bari, Italy. (jointly organized by **European Confederation of Soil Science Society (ECSSS)**, **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 9 Kosaki, T. and Gicheru, P., Horn, R., and Senesi, N. 2012: “Soil Degradation in the Mediterranean: A Never-ending story that still needs solutions”, July 2-6, Bari, Italy. (jointly organized by **ECSSS**, **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 10 Kosaki, T. and Gabriels, D. 2013: “The First Conference on Desertification and Land Degradation (DesertLand I)”, June 17-18, Gent, Belgium. (jointly organized by University of Gent, **Commission 3.5, IUSS**, Tokyo Metropolitan University, Japanese Society of Soil Science and Plant Nutrition)
- 11 Kosaki, T. 2013: “Land Degradation and Remediation”, October 21-23, Bogor, Indonesia. (jointly organized by **ESAFS**, **Commission 3.5, IUSS**, and Tokyo Metropolitan University)
- 12 Kosaki, T. and Gicheru, P. 2014: “Water Conservation Technologies and Impacts on Sustainable Dry Land Agriculture”, June 8-13, Jeju, Korea. (jointly organized by **20th World Congress of Soil Science, IUSS**)
- 13 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)

- 14 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 organized by The International Conference on the Biogeochemistry of Trace Elements (ICOBTE), **Division 3, IUSS**, and Japanese Society of Soil Science and Plant Nutrition)
- 15 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 organized by The International Conference on the Biogeochemistry of Trace Elements (ICOBTE), **Division 3, IUSS**, and Japanese Society of Soil Science and Plant Nutrition)
- 16 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)
- 17 Nishida, M. and Kosaki, T. 2015: “High Yield of Rice and Sustainable Soil Utilization”, September 18-21, Nanjing, China. (jointly organized by **ESAFS** and **Paddy Soils Working Group and Division 3, IUSS**)
- 18 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**)
- 19 Singh, B.R. and Kosaki, T. 2015: “Soil Degradation - Impact on soil quality, productivity and climate change”, September 23-26, Kiel, Germany. (jointly organized by International Congress on the Occasion of the International Year of Soils 2015 (SUSTAIN), **Land Degradation Working Group and Division 3, IUSS**)
- 20 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**)
- 21 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 organized by **ECSSS**, **Commission 3.5 and Division 3, IUSS**)
- 22 Kosaki, T. and Suthumchai, W. 2017: “Soil education and public awareness to advance SDGs”, December 14, Pattaya, Thailand (jointly organized by **IUSS** and **ESAFS**)
- 23 Hannan, J., Field, D., Huber, S., Kosaki, T. and Millar, B. 2018: “Soil Science, education, outreach and your favorite soil maps”, April 13, Vienna, Austria (jointly organized by **European Geosciences Union (EGU)** and **IUSS**)
- 24 Kosaki, T. and Hirai, H. 2019: “Soil education for pre- and elementary-school children: current issues towards setting an international standard”, November 3-5, Taipei, Taiwan (jointly organized by **IUSS** and **ESAFS**)
- 25 Kosaki, T. and Thamae, L. 2021: “ISC Members’ outlook on their contribution to Advance Sustainable Development Goals”, **International Science Council (ISC)** Members’ Forum, October 11, Paris, France (jointly organized by **IUSS**)
- 26 Kosaki, T. 2022: “Research Forum”, **IUSS**, August 4, Glasgow, UK (organized by **22nd World Congress of Soil Science, IUSS**)
- 27 Kosaki, T., Mori, K., Zacccone, C. and Sanden, T. 2024: “Development of efficient soil education scheme for tomorrow”, May 20-22, Florence, Italy, (proposed for **Centennial Congress of IUSS**)

- 28 Dazzi, C., Costantini, E.A.C., Feger, K-H. and Kosaki, T. 2024: “The Development of Soil Science in the IUSS Countries: 100 Years of History”, May 20-22, Florence, Italy, (proposed for **Centennial Congress of IUSS**)