

* 実績（論文発表）

査読付英文論文

- 2011 Kim YS, Makoto K, Takakai F, Shibata H, Satomura T, Takagi K, Hatano R, Koike T: Greenhouse gas emissions after a prescribed fire in white birch-dwarf bamboo stands in northern Japan, focusing on the role of charcoal. European Journal of Forest Research, 130(6): 1031–1044(2011)
- Diba F, Shimizu M, Hatano R: Effects of soil aggregate size, moisture content and fertilizer management on nitrous oxide production in a volcanic ash soil. Soil Science and Plant Nutrition, 57(5): 733–747(2011)
- Alberto, MCR, Wassmann, R, Hirano, T, Miyata, A, Hatano, R, Kumar, A., Padre, A, Amante, M: Comparisons of energy balance and evapotranspiration between flooded and aerobic rice fields in the Philippines. Agricultural Water Management, 98 (9): 1417–1430 (2011)
- Toma, Y, Takakai, F, Darung, U, Kuramochi, K, Limin, SH, Dohong, S, Hatano, R: Nitrous oxide emission derived from soil organic matter decomposition from tropical agricultural peat soil in central Kalimantan, Indonesia. Soil Science and Plant Nutrition, 57 (3): 436–451(2011)
- Toma Y, Fernandez FG, Sato S, Izumi M, Hatano R, Yamada T, Nishiwaki A, Bollero G, Stewart JR, Carbon budget and methane and nitrous oxide emissions over the growing season in a Miscanthus sinensis grassland in Tomakomai, Hokkaido, Japan. Global Change Biology Bioenergy, 3(2) 116–134(2011)
- Nkongolo NV, Hatano R, Kakembo V: Diffusivity Models and Greenhouse Gases Fluxes from a 2010 Forest, Pasture, Grassland and Corn Field in Northern Hokkaido, Japan. PEDOSPHERE, 20 (6), 747–760 (2010)
- Hara S, Hashidoko Y, Desyatkin RV, Morishita T, Hatano R: Clear increases in acetylene reduction by soil bacteria from an East Siberian Taiga forest bed under conditions mimicking the natural soil environment. Soil Science and Plant Nutrition, 56(5), 716–724 (2010)
- Jin T, Shimizu M, Marutani S, Desyatkin AR, Iizuka N, Hata H, Hatano R.: Effect of chemical fertilizer and manure application on N₂O emission from reed canary grassland in Hokkaido, Japan. Soil Science and Plant Nutrition, 56(1), 53–65(2010)
- Jiang R, Woli1 KP, Kuramochi K, Hayakawa A, Shimizu M, Hatano R: Hydrological process controls on Nitrogen export during storm events in an agricultural watershed. Soil Science and Plant Nutrition, 56(1), 72–85(2010)
- Kusa K, Sawamoto T, Hu R, Hatano R: Comparison of N₂O and CO₂ concentrations and fluxes in the soil profile between a Gray Lowland soil and an Andosol. Soil Science and Plant Nutrition, 56(1), 186–199 (2010)
- Kimura SD, Toma Y, Mu ZJ, Yamada H, Hatano R: Eco-balance analysis of land use

- combinations to minimize environmental impacts and maximize farm income in northern Japan. *SUSTAINABILITY SCIENCE*, 5(1), 19–27 (2010)
- Shimizu M, Marutani S, Desyatkin AR, Jin T, Nakano K, Hata H, Hatano R: Nitrous oxide emissions and nitrogen cycling in managed grassland in Southern Hokkaido, Japan. *Soil Science and Plant Nutrition*, 56(4), 676–688 (2010)
- Toma Y, Kimura SD, Yamada H, Hirose Y, Fujiwara K, Kusa K, Hatano R: Effects of environmental factors on temporal variation in annual carbon dioxide and nitrous oxide emissions from an unfertilized bare field on Gray Lowland soil in Mikasa, Hokkaido, Japan. *Soil Science and Plant Nutrition*, 56(4), 663–675 (2010)
- Koide T, Saito H, Shirota T, Iwahana G , Lopez ML, Maximov TC, Hasegawa S, Hatano R: Effects of changes in the soil environment associated with heavy precipitation on soil greenhouse gas fluxes in a Siberian larch forest near Yakutsk. *Soil Science and Plant Nutrition*, 56(4), 645–662 (2010)
- Mu Z, Huang A, Kimura SD, Jin T, Wei S, Hatano R: Linking N₂O emission to soil mineral N as estimated by CO₂ emission and soil C/N ratio. *Soil Biology and Biochemistry*, 41: 2593–2597 (2009)
- Hayakawa1 A, Woli KP, Shimizu M, Nomaru K, Kuramochi K, Hatano R: The nitrogen budget and relationships with riverine nitrogen exports of a dairy cattle farming catchment in eastern Hokkaido, Japan, *Soil Science and Plant Nutrition*, 55, 800–819(2009)
- Katayanagi N, Sawamoto T, Hayakawa A, Hatano R : New method for the estimation of nitrous oxide emission rates from an agricultural watershed. *Soil Science and Plant Nutrition*, 55(4), 590–598 (2009)
- Desyatkin AR, Takakai F, Fedorov PP, Nikolaeva MC, Desyatkin RV, Hatano R : CH₄ emission from different stages of thermokarst formation in Central Yakutia, East Siberia, *Soil Science and Plant Nutrition*, 55(4), 558–570 (2009)
- Hara S, Hashidoko Y, Desyatkin RV, Hatano R and Tahara S: High Rate of N₂ Fixation by East Siberian Cryophilic Soil Bacteria as Determined by Measuring Acetylene Reduction in Nitrogen-Poor Medium Solidified with Gellan Gum. *Applied and Environmental Microbiology*, 75(9), 2811–2819 (2009)
- Iqbal J, Hu R., Lin S, Hatano R, Feng M, Lu L, Ahamadou B, Du L: CO₂ emission in a subtropical red paddy soil (Ultisol) as affected by straw and N-fertilizer applications: A case study in Southern China, *Agriculture, Ecosystems and Environment* 131: 292–302(2009)
- Kimura S.D., Hatano R. and Okazaki M.: Characteristics and issues related to regional-scale modeling of nitrogen flows *Soil Sci. Plant Nutr.* 55(1):1–12(2009)
- Shimizu M, Marutani S, Desyatkin AR, Jin T, Hata H and Hatano R: The effect of manure application on carbon dynamics and budgets in a managed grassland of Southern Hokkaido,

- Japan. Agriculture, Ecosystems and Environment Agriculture, Ecosystems and Environment 130: 31–40 (2009)
- Takakai F, Desyatkin AR, Lopez CML, Fedrov AN, Desyatkin RV and Hatano R: Influence of forest disturbance on CO₂, CH₄ and N₂O fluxes from larch forest soil of permafrost taiga region in eastern Siberia. *Soil Science and Plant Nutrition*, 54(6): 938–949(2008)
- Kusa K, Sawamoto T, Hu R., Hatano R: Comparison of the closed-chamber and gas concentration gradient methods for measurement of CO₂ and N₂O fluxes in two upland field soils. *Soil Science and Plant Nutrition* 54(5), 777–785(2008)
- Yanai, Y, Hatano R, Okazaki M and Toyota K: Analysis of the C₂H₂ inhibition-based N₂O production curve to characterize the N₂O-reducing activity of denitrifying communities in soil. *Geoderma* 146(1–2), 269–276 (2008)
- Mori A, Hojito M, Shimizu M, Matsuura S, Miyaji T, Hatano R: N₂O and CH₄ fluxes from a volcanic grassland soil in Nasu, Japan: Comparison between manure plus fertilizer plot and fertilizer-only plot. *Soil Science and Plant Nutrition* 54(4), 606–617 (2008)
- Katayanagi N, Sawamoto T, Hayakawa A, Hatano R: Nitrous oxide and nitric oxide fluxes from cornfield, grassland, pasture and forest in a watershed in Southern Hokkaido, Japan. *Soil Science and Plant Nutrition* 54(4), 662–680 (2008)
- Mu ZJ, Kimura SD, Toma Y, Hatano R: Evaluation of soil carbon budget under different upland cropping systems in central Hokkaido, Japan. *Soil Science and Plant Nutrition* 54(2), (2008)
- Takakai, F., A. R. Desyatkin, C. M. L. Lopez, A. N. Fedorov, R. V. Desyatkin, and R. Hatano, CH₄ and N₂O emissions from a forest-alas ecosystem in the permafrost taiga forest region, eastern Siberia, Russia, *J. Geophys. Res.* 113, G02002, doi:10.1029/2007JG000521. (2008)
- Krishna Prasad WOLI, Atsushi HAYAKAWA, Toshiyuki NAGUMO, Hiromu IMAI, Teruo ISHIWATA and Ryusuke HATANO Assessing the impact of phosphorus cycling on river water P concentration in Hokkaido. *Soil Science and Plant Nutrition* 54(2), 310–317 (2008)
- Tokida, T., Mizoguchi, M., Miyazaki, T., Kagemoto, A., Nagata, O., and Hatano, R.: Episodic release of methane bubbles from peatland during spring thaw. *Chemosphere* 70, 165–171 (2007)
- Melling L, Hatano R and Goh K J: Nitrous oxide emissions from three ecosystems in tropical peatland of Sarawak, Malaysia. *Soil Science and Plant Nutrition* 53(6), 792–805 (2007)
- Yanai Y, Toyota K, Morishita T, Takakai F, Hatano R, Limin S H., Darung U And Dohong S: Fungal N₂O production in an arable peat soil in Central Kalimantan, Indonesia. *Soil Science and Plant Nutrition* 53(6), 806–811(2007)
- Desyatkin A.R., Takakai F., Fedorov P.P., Desyatkin R.V. and Hatano R.: Effect of human activity on carbon balance in meadows in a thermokarst depression in Siberia. *Eurasian J. For. Res.*, 10, 89–96, 2007

- Morishita T., Hatano R. and Desyatkin R. V.: N₂O Flux in Alas Ecosystems Formed by Forest Disturbance Near Yakutsk, Eastern Siberia, Russia. *Eurasian J. For. Res.*, 10: 79–84, 2007
- Hatano R., Nakahara O., Kawahara S., Kitamura S. and Koide T.: Greenhouse Gas Budget in a Larch Forest with Low Atmospheric N Deposition in Hokkaido, Northern Japan. *Eurasian J. For. Res.* 10: 71–77 , 2007
- Hashidoko Y., Takakai F., Toma Y., Darung U., Melling L., Tahara S., and Hatano R.. Emergence and behaviors of acid-tolerant *Janthinobacterium* sp. that evolves N₂O from deforested tropical peatland. *Soil Biology and Biochemistry* 40, 116–125 (2007)
- Toma Y, Kimura SD, Hirose Y, Kusa K, Hatano R: Variation in the emission factor of N₂O derived from chemical nitrogen fertilizer and organic matter: A case study of onion fields in Mikasa, Hokkaido, Japan. *Soil Science and Plant Nutrition* 53 (5): 692–703 (2007)
- Kimura SD, Mu ZJ, Toma Y, and Hatano R: Eco–balance analysis of six agricultural land uses in the Ikushunbetsu watershed. *Soil Science and Plant Nutrition* 53 (4): 373–386 2007
- Woli, K.P., Hayakawa, A., Kuramochi K. and Hatano R.: Assessment of River Water Quality during Snowmelt and Base Flow Periods in Two Catchment Areas with Different Land Use. *Environmental Monitoring and Assessment* online DOI 10.1007/s10661-007-9757-4 (2007)
- Toma, Y and Hatano, R.: Effect of crop residue C:N ratio on N₂O emissions from Gray Lowland soil in Mikasa, Hokkaido, Japan. *Soil Science and Plant Nutrition* 53(2), 198–205, 2007
- Kimura S.D. and Hatano R.: An Eco–Balance approach to evaluate the historical change in N loads caused by agricultural land–use change at a regional scale. *Agricultural Systems* 94 (2), 165–176, 2007
- Naser, H.M., Nagata, O., Tamura, S. and Hatano, R.: Methane emissions from five paddy fields with different amount of rice straw application in central Hokkaido, Japan. *Soil Science and Plant Nutrition* 53, 95–101, 2007
- Tokida, T., Miyazaki, T., Mizoguchi, M., Nagata, O., Takakai, F., Kagemoto, A. and Hatano, R.: Falling atmospheric pressure as a trigger for methane ebullition from peatland. *Global Biogeochemical Cycles* 21 (2): Art. No. GB2003 APR 18 2007
- Kusa K, Hu RG, Sawamoto T, Hatano R: Three years of nitrous oxide and nitric oxide 2006 emissions from silandic andosols cultivated with maize in Hokkaido, Japan. *Soil Science and Plant Nutrition*. 52, 103–113, 2006
- Mu ZJ, Kimura SD, Hatano R: Estimation of global warming potential from upland cropping systems in central Hokkaido, Japan. *Soil Science and Plant Nutrition* 52, 371–377, 2006
- Takakai F, Morishita T, Hashidoko Y, Darung U, Kuramochi K, Dohong S, Limin SH, Hatano R: Effects of agricultural land–use change and forest fire on N₂O emission from tropical peatlands, Central Kalimantan, Indonesia. *Soil Science and Plant Nutrition* 52, 662–674, 2006
- Melling L, Goh K J and Hatano R: Short–term effect of urea on CH₄ flux under the oil palm

- (*Elaeis guineensis*) on tropical peatland in Sarawak, Malaysia. *Soil Science and Plant Nutrition* 52, 788–792, 2006
- Hayakawa A, Shimizu M, Woli KP, Kuramochi K and Hatano R: Evaluating stream water quality through land use analysis in two grassland catchments: Impact of wetlands on stream nitrogen concentration. *J. Environ. Qual.* 35 (2): 617–627(2006)
- Liang L, Nagumo T, Hatano R(2006) Nitrogen flow in the rural ecosystem of Mikasa City in Hokkaido, Japan. *Pedosphere* 16 (2): 264–272
- Mu Zhijian, Kimura Sonoko D. and Hatano Ryusuke: Estimation of Global Warming Potential from Upland Cropping Systems in Central Hokkaido, Japan. *Soil Science and Plant Nutrition*. 52, 372–378, 2006
- Kusa K, Hu RG, Sawamoto T, Hatano R Three years of nitrous oxide and nitric oxide emissions from silandic andosols cultivated with maize in Hokkaido, Japan. *Soil Science and Plant Nutrition*. 52, 103–113, 2006
- Hatano, R., Nagumo, T., Hata, H. and Kuramochi, K.: Impact of nitrogen cycling on stream water quality in a basin associated with forest, grassland and animal husbandry, Hokkaido, Japan. *Ecological Engineering*, 24(5), 509–515(2005)
- Nagata O, Takakai F, Hatano R: Effect of Sasa invasion on global warming potential in Sphagnum dominated poor fen in Bibai. *Phyton*, 45: 299–307,2005
- Takakai F., Nagata O. and Hatano R.: Effect of Sasa Invasion on CO₂, CH₄ and N₂O Fluxes in Sphagnum Dominated Poor Fen in Bibai, Hokkaido, Japan. *Phyton*, 45:319–326 (2005)
- Melling L, Hatano R, Goh, KJ : Global warming potential from soils in tropical peatland of Sarawak, Malaysia. *Phyton* (Horn, Austria), 45(4), 275–284(2005)
- Morishita T., Hatano R., Takahashi K. and Kondrashov, LG: Effect of deforestation on CH₄ uptake in Khabarovsk, Far East, Russia, *Phyton*, 45: 267–274(2005)
- Koide T., Sakai K., Kawahara S., Usui Y., Nakahara O. & Hatano R.: Response to Nitrogen Loading in a P-limited Larch Forest Ecosystem in Sapporo, Japan. *Phyton*, 45:443–450 (2005)
- Katayanagi N. & Hatano R.: Spatial Variability of Greenhouse Gas Fluxes from Soils of Various Land Uses on a Livestock Farm in Southern Hokkaido, Japan. *Phyton*, 45:309–318(2005)
- Naser, H. M., Nagata, O. and Hatano, R. : Greenhouse gas fluxes and global warming potentials in crop fields on soil-dressed peatland in Hokkaido, Japan. *Phyton*. 45:285–293(2005)
- Liang L, Nagumo T, Hatano R: Nitrogen cycling with respect to environmental load in farm systems in Southwest China. *Nutrient Cycling in Agroecosystems* 73 (2–3): 119–134 (2005)
- Melling L., Hatano, R. and Goh, K. J.: Methane emission from three ecosystems in tropical peatland of Sarawak, Malaysia. *Soil Biol. Biochem.*, 37(8), 1445–1453(2005)
- Kimura S D., Liang L. and Hatano R.:Influence of N flow change on environment between 1912 and 2002: a case study of one city in Hokkaido, Japan. *Nutrient Cycling in Agroecosystems* 70

(3): 271–282 (2005)

- Melling L., Hatano, R. and Goh, K. J.: Soil respiration from three ecosystems in tropical peatland of Sarawak, Malaysia. *Tellus* 57, 1–11(2005)
- Morishita T, Hatano R, Nagata O, Sakai K, Koide T, Nakahara O: Effect of nitrogen deposition 2004 on CH₄ uptake in forest soils in Hokkaido, Japan. *Soil Science and Plant Nutrition*, 50,1187–1194 (2004)
- Hatano, R., Lipiec, J.. Effects of land use and cultural practices on greenhouse gas fluxes in soil. *Acta Agrophysica*, 109, 5–51,2004
- Woli, K.P., Nagumo, T., Kuramochi, K. and Hatano, R.: Evaluating river water quality through land use analysis and N budget approaches in livestock farming areas, *Science of the Total Environment*, 329, 61–74. (2004)
- Hu, R., Hatano, R., Kusa, K., and Sawamoto, T.: Soil Respiration and Net Ecosystem Production in an Onion Field in Central Hokkaido, Japan. *Soil Sci. Plant Nutr.* 50 (1): 27–33(2004)
- Nagumo, T., Woli, K. P. and Hatano, R.: Evaluating contributions of point and non—point sources of nitrogen pollution in stream water in a rural area of central Hokkaido, Japan. *Soil Sci. Plant Nutr.* 50 (1): 109–117 (2004)
- Woli, K.P., Nagumo, T., Lie, L. and Hatano, R.: Evaluation of the impact of paddy fields on stream water nitrogen concentration in central Hokkaido, Japan. *Soil Sci. Plant Nutr.* 50 (1): 45–55 (2004)
- Nakano,T., Sawamoto, T., Morishita, T., Inoue, G. and Hatano, R. :A comparison of regression methods for estimating soil-atmosphere diffusion gas fluxes by a closed-chamber technique. *Soil Biol. Biochem.*, 36; 107–113 (2004)
- Hatano, R., Osaki, M., Limin, H. S. :Nitrogen budgets in different types of agricultural systems in central Kalimantan, Indonesia. In Eds M. Osaki et al. *Proceedings of the International 2003 Symposium on “Land Management and Biodiversity in Southeast Asia*, p. 241–247, Hokkaido University, Sapporo, Japan and Research Center for Biology, The Indonesian Institute of Sciences, Bogor, Indonesia (2003) .
- 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 nitrous oxide emissions and their soil-related determining factors in an agricultural field. *J. Environ. Qual.*, 32, 1965–1977 (2003)
- Nakahara, O., Yamagami, T., Koide, T., Sakai, K. and Hatano, R.: Spatial variation of nitrogen deposition over five adjacent catchments in Larch forest. *Soil Sci. Plant Nutr.* 49, 741–746 (2003)
- Lipiec, J. and Hatano, R.: Quantification of compaction effects on soil physical properties and crop growth, *Geoderma* 116, 107–136 (2003)
- Morishita, T., Hatano R. and Desyatkin R. V. : CH₄ flux in an Alas ecosystem formed by forest

- disturbance near Yakutsk, eastern Siberia, Russia. *Soil Sci. Plant Nutr.*, 49, 369–377 (2003)
- Sawamoto, T., Hatano, R., Shibuya, M., Takahashi, K., Isaev A.P., Desyatkin R.V., and Maximov T.C.: Changes in net ecosystem production caused by forest fire in Taiga ecosystems, near Yakutsk, Russia. *Soil Sci. Plant Nutr.*, 49, 493–501(2003)
- Hayakawa, A., Nagumo, T., Kuramochi, K., and Hatano, R.: Characteristics of nutrient load in a stream flowing through a livestock farm during spring snowmelt. *Soil Sci. Plant Nutr.*, 49, 301–310 (2003)
- Sawamoto, T., Kusa, K., Hu, R. and Hatano, R. : Dissolved N₂O, CH₄ and CO₂ emissions from subsurface-drainage in a structured clay soil cultivated with onion in Central Hokkaido, Japan. *Soil Sci. Plant Nutr.*, 49, 31–38 (2003)
- Woli, K. P., Nagumo, T. and Hatano R.: Magnitude of Nitrogen pollution in stream water due to intensive livestock farming practices, *Soil Sci. Plant Nutr.*, 48, 883– 888 (2002)
- Hu, R., Hatano, R., Kusa, K., and Sawamoto, T.: Effect of Nitrogen fertilizer on Methane Flux in a structured clay soil cultivated with onion in central Hokkaido, Japan. *Soil Sci. Plant Nutr.*, 48 797–804 (2002)
- Sawamoto, T., Kusa, K., Hu, R. and Hatano, R.: Dissolved N₂O, CH₄ and CO₂ in pipe drainage, seepage and stream water in a livestock farm in Hokkaido, Japan, *Soil Sci. Plant Nutr.*, 48, 433–440 (2002)
- Woli, K.P., Nagumo, T. and Hatano, R.: Evaluating impact of land use and N budgets on stream water quality in Hokkaido, Japan. *Nutrient Cycling Agro Ecosystems*, 63, 175–184(2002)
- Hatano, R., Shinano, T., Taigen Z., Okubo M. and Li, Z.:Nitrogen Budgets and Environmental Capacity in Farm Systems in a Large-Scale Karst Region, Southern China. *Nutrient Cycling Agro Ecosystems*, 63, 139–149 (2002)
- Kusa, K., Sawamoto, T. and Hatano, R. :Nitrous Oxide Emissions for Six Years from a Gray Lowland Soil Cultivated with Onions in Hokkaido, Japan. *Nutrient Cycling Agro Ecosystems*, 63, 239–247 (2002)
- Sawamoto, T., Hatano, R., Shibuya, M., Takahashi, K., Isaev, A. P. and Desyatkin, R. M.: CO₂, 2001 N₂O, CH₄ fluxes from Soil in Siberia Taiga Larch forests with different histories of forest fire. *Tohoku Geophysical Journal*, 36, 77–89 (2001)
- Shibuya M., Sugiura, T., Takahashi, K., Sawamoto, T., Hatano, R., Cha, J-Y. Fukuhara K., Isaev, A. P. and Maximov, T. C.: Comparison of Needle Mass Density in the tree crowns of Larix gmelinii and Larix kaempferi Trees. *Eurasian J. For. Res.* 2, 39–44(2001)
- Nagata, O., Managi, A., Hayakawa, A., Hatano, R. Shibata, H. and Satoh, F.: Seasonal dynamics of biogeochemical proton and base cation fluxes in a white birch forest in Hokkaido, Japan. *Water Air and Soil Pollut.* 130,691–696(2001)
- Kirikae, M., Hatano, R., Shibata, H, and Tanaka, Y.: Analysis of proton generation and

- consumption of forest surface soils in Hokkaido, Northern Japan. Water Air Soil Pollut., 130, 697–702 (2001)
- Hu, R., Kusa, K., and Hatano, R.: Soil respiration and methane flux in adjacent forest grassland and cornfield soils in Hokkaido, Japan. *Soil Sci. Plant Nutr.*, 47, 621–628(2001)
- Kirikae, M., Shibata, H., Tanaka, Y., Sakuma, and T., Hatano, R.: Significance of nitrification and vegetation uptake in proton budgets in forest surface soil. *Soil Sci. Plant Nutr.* 47, 253–264 (2001)
- Pampolino, M. F. Urushiyama, T. and Hatano, R. Detection of nitrate leaching through bypass flow using Pan Lysimeter, Suction Cup and Resin Capsule. *Soil Sci. and Plant Nutr.* 46, 703–712(2000)
- Pampolino, M. F. and Hatano, R. Comparison between conventional soil tests and the use of resin capsules for measuring P, K, and N in two soils under two moisture conditions. *Soil Sci. Plant Nutr.* 46,461–471(2000)
- Sawamoto, T., Hatano, R., Yajima, T., Takahashi, K., and Isaev, A. P. Soil respiration in Siberian Taiga ecosystems with different histories of forest fire. *Soil Sci. Plant Nutr.* 46, 31–42 (2000)
- Nagumo, T, and Hatano, R. Impact of Nitrogen Cycling Associated with Production and Consumption of Food on Nitrogen Pollution of Stream Water. *Soil Sci. Plant Nutr.* 46, 325–342(2000)
- Hayashi,Y., and Hatano, R.: Annual nitrogen leaching in subsurface-drained water from a clayey aquic soil growing onions in Hokkaido, Japan. *Soil Sci. Plant Nutrition*, 45, 451–459 (1999)
- Kuramochi, K., Haraguchi, A., Nagata, O. and Hatano, R.: Effects of microtopography on fruit production of strawberry, *Fragaria chiloensis* Duch. Var. *ananassa* Bailey. *J. Faculty Agr. Hokkaido Univ*, 69, 17–25(1999)
- Kanazawa, K., Miyaji, N., Kusaba, T., Ban, K., Hayakawa, Y. and Hatano, R.: Ground water pollution by cattle slurry stored in unlined lagone. *Japan Agricultural Research Quaterly*, 33, 7–13(1999)
- Shibata, H., Kirikae M., Tanaka, Y., Sakuma, T. and Hatano, R.: Proton budgets of forest ecosystems on volcanogenous regosols in Hokkaido, Nothern Japan. *Water, Air and Soil Pollution*, 105, 63–72(1998)
- Lipiec, J. Hatano, R. and Slowinska-Jurkiewicz, A.: The fractal dimension of pore distribution patterns in variously-compacted soil. *Soil Tillage Research*, 47, 61–66(1998)
- Hatano, R.: Regression model to predict travel time for chloride leaching throughout pedons using soil morphological characteristics. *Nutrient Cycling in Agroecosystems*, 50, 267–269 (1998)
- 1994 Hatano,R. and Bootink, H. W. G. A: morphological approach to describe soute movemnt

- influenced by bypass flow in a structured clay soil. *Soil Sci. Plant Nutr.*, 40, 573–580(1994).
- 1993 Lipiec, J., Ishioka, T., Hatano, R. and Sakuma, T.: Effects of soil structural discontinuity on root and shoot growth and water use of maize. *Plant and Soil*, 157, 65–74(1993).
- Booltink, H. W. G., Hatano, R. and Bouma, J.: Measurement and simulation of bypass flow in a structured clay soil: a physico-morphological approach, *J. Hydrology*, 148, 149–168(1993).
- Hatano, R., Tomita, A. and Sakuma, T.: Diffusion processes in water saturated spherical soil aggregates. *Soil Sci. Plant Nutr.*, 39, 245–255 (1993).
- 1992 Kiura, T., Hatano, R. and Hakamata, T.: A personal computer system for construction of a tank model for water resource management. *J. Arid Land Studies*, 2, 55–63(1992).
- Hatano, R., and Booltink, H. W. G.: Using fractal dimensions of stained flow patterns in a clay soil to predict bypass flow. *J. Hydrology*, 135, 121–131(1992).
- Hatano, R., Kawamura, N., Ikeda, J. and Sakuma, T.: Evaluation of the effect of morphological features of flow paths on solute transport by using fractal dimensions of methylene blue staining patterns. *Geoderma*, 53, 31–44(1992).
- 1991 Hatano, R. and Sakuma, T: A plate model for solute transport through aggregated soil columns. II. Experimental results and application of the model, *Geoderma*, 50, 25–36 (1991).
- Hatano, R. and Sakuma, T: A plate model for solute transport through aggregated soil columns. I. Theoretical description. *Geoderma*, 50, 13–23(1991).
- 1988 Hatano, R., Nakamoto, H., Sakuma, T. and Okajima, H.: Evapotranspiration in Cracked Clay Field Soil. *Soil Sci. Plant Nutr.*, 34, 547–555(1988).
- Hatano, R., Iwanaga, K., Okajima, H. and Sakuma, T.: Relationship between the distribution of soil macropores and root elongation. *Soil Sci. Plant Nutr.*, 34, 535–546 (1988).
- 1985 Hatano, R., Sakuma, T. and Okajima, H.: The source-sink effect of clayey soil peds on solute transport. *Soil Sci. Plant Nutr.*, 31, 199–213(1985).

査読付和文論文

- 2010 関谷長昭・高階史章・丹羽勝久・木村園子ドロテア・波多野隆介:北海道十勝管内耕地土壤の炭素賦存量とその動態. 日本土壤肥料学雑誌 81(3), 224–233(2010)
- 関谷長昭: 畑地帯における多湿黒ボク土の土壤有機物動態 第1章 緒論. 北農,第77巻, 第3号,p268–273(2010).
- 関谷長昭: 畑地帯における多湿黒ボク土の土壤有機物動態 第2章 十勝管内畑作地帯の土壤炭素賦存量. 北農,第77巻,第4号,p387–393(2010).
- 関谷長昭: 畑地帯における多湿黒ボク土の土壤有機物動態 第3章 多湿黒ボク土の理化学性および二酸化炭素フラックスの特徴. 北農,第78巻,第1号,p30–40.(2010)
- 2001 山本吾一・永田修・田中夕美子・波多野隆介:森林－湿地境界域の土壤におけるメタンフラッ

- クスと土壤中メタン濃度分布、土肥誌, 72, 673–675(2001)
- 南雲俊之・笛木伸彦・波多野隆介: 消石灰処理された家畜糞尿資材の水稻栽培における有効性、北海道大学農学部邦文紀要, 23(4), 403–413(2001)
- 永田修・波多野隆介: 土壤条件の違いがアカエゾマツの成長および物質循環に与える影響、泥炭土、灰色台地土に成立するアカエゾマツ林における比較、土肥誌, 72, 147–157(2001)
- 南雲俊之・波多野隆介: 北海道における融雪期河川水質の地域特性、土肥誌, 72, 41–48(2001)
- 澤本卓治・波多野隆介: 北海道の土壤構造が発達した灰色低地土タマネギ畑からの N₂O フラックス、土肥誌, 71, 659–665(2000)
- 切替眞智子・波多野隆介: 外部からの NH₄⁺供給が各種森林土壤A層の硝酸化成に及ぼす影響、土肥誌, 71, 63–71(2000)
- 森下智陽・波多野隆介: 新設ダム湖からのメタン放出量と森林土壤へのメタン吸収量、土肥誌, 70, 791–798(1999)
- 細淵幸雄・波多野隆介: 火山放出物未熟土壤に立地する落葉広葉樹林生態系における酸性降下物の影響と塩基の循環、土肥誌, 70, 505–513(1999)
- 細淵幸雄・波多野隆介・柴田英昭・田中夕美子: 火山放出物未熟土壤における TDR を使った現場での不飽和透水係数の測定、土肥誌, 69, 633–635(1998)
- 江口定夫・阪田匡司・波多野隆介・佐久間敏雄: 落葉広葉樹林土壤からの CO₂ フラックスの日変化と植生に対する CO₂ 供給源としての重要性、土肥誌, 68, 138–147(1997)
- 阪田匡司・波多野隆介・佐久間敏雄: 粘土質コムギ畑の土壤呼吸における根と微生物呼吸の寄与、土肥誌, 67, 133–138(1996).
- 波多野隆介・長谷川周一・佐久間敏雄: TDR 土壤水分計のキャリブレーション、土肥誌, 66, 678–680(1995)
- 江口定夫・波多野隆介・佐久間敏雄: 土壤の有機物分解活性に及ぼすミズの影響、土肥誌, 66, 165–167. (1995)
- 阪田匡司・波多野隆介・佐久間敏雄: フロースルーチャンバー法を用いた土壤呼吸測定の改良法、土肥誌, 65, 334–336(1994).
- 高橋千穂・波多野隆介・佐久間敏雄: 土壤－植物－大気系(SPAC)の放射・水分レジムの影響によるコムギ畑の蒸発散の変動、土壤の物理性, 62, 33～41(1991).
- 波多野隆介・江耀宗・齊藤英樹・佐久間敏雄・岡島秀夫: 水と溶存イオンの移動に対する畑土壤粒団の source-sink 効果、D₂O を水のトレーサーとして、土肥誌, 59, 253～259(1988).
- 岡島秀夫・波多野隆介: シングル・ルート・モデルにより求めた根への NO₃-N 供給様式と土壤溶液最低 NO₃-N 濃度、土肥誌, 59, 172～177(1988).
- 波多野隆介: 重粘性土壤における水と溶存イオンの移動・分布に関する研究—とくに粗孔隙の関与を中心にして—、土肥誌, 58, 289～290(1987).
- 波多野隆介・佐久間敏雄・岡島秀夫: 重粘性畑土壤における浸透水と Cl⁻ の動態、土壤の物

- 理性, 54, 21~27(1987).
- 波多野隆介・佐久間敏雄・岡島秀夫: 重粘性土壤における根群分布に対する粒団間粗孔隙の意義, 土肥誌, 58, 209~216 (1987).
- 波多野隆介・袴田共之・藤井国博: ライシメーター試験による水と溶存イオンの流出機構の解析—土壤間差と汚泥・化学肥料施与の比較—, 国立公害研究所研究報告, 94, 11~28(1986).
- 波多野隆介・佐久間敏雄・岡島秀夫: シミュレーションモデルによる亀裂内水分流の解析, 2. 数値例, 土肥誌, 55, 351~356(1984).
- 波多野隆介・佐久間敏雄・岡島秀夫: シミュレーションモデルによる亀裂内水分流の解析, 1. 理論, 土肥誌, 55, 344~350(1984).
- 波多野隆介: 物質移動における亀裂の役割, 土壤の物理性, 49, 9~22 (1984).
- 波多野隆介・佐久間敏雄・岡島秀夫: メチレンブルートレーサー法による水みちの分布状態, 土肥誌, 54, 490~498(1983).
- 波多野隆介・今井弘樹・岡島秀夫: ハウス土壤における施肥成分の分布, 北大農邦文紀, 13, 507~519(1983).
- 波多野隆介・佐久間敏雄: イオンクロマトグラフィーの土壤溶液分析への適用, 土肥誌, 54, 161~163(1983).
- 波多野隆介・今井弘樹・岡島秀夫: 土地利用を異にする土壤の土壤溶液イオン組成に関する比較研究 第4報 火山性土における水分の移動と肥料塩の再分配について, 北大農邦文紀, 13, 128~137(1982).
- 波多野隆介・今井弘樹・岡島秀夫: 土地利用を異にする土壤の土壤溶液イオン組成に関する比較研究 第3報 火山性土の畑圃場について, 北大農邦文紀, 13, 118~127(1982).

プロシーディングス

- 2011
- Hatano R, M. Shimizu, T. Arita, Y. Kouda, A. Mori, S. Matsuura, M. Niimi, M. Mano, R. Hirata, T. Jin, A. Limin, O. Kawamura, M. Hojito, A. Miyata:Effect of manure application on greenhouse gas emissions from managed grasslands in Japan. ESAFS10, SriLanka, 10~13 Oct.2011
- Hashidoko, Y., Takeda, H., Hasegawa, S., Hara, S., Wijaya, H.C., Darung, U., Melling, L., Hatano R.: Screening of N₂O-emitting bacteria from acidic soils and their characteristics under acidic condition. Sudarsono, Rusuke Hatano, Takashi Inoue, Suwido Limin, Gunawan Djajakirana, Suwardi eds; Wise Use of Tropical Peatland, Proceeding of Bogor Symposium and Workshop on Tropical Peatland Management, 52~56(2010)
- Hamada Y, Hatano R: Dynamics of greenhouse gases within a soil profile: Review and application to tropical peatland soils. Sudarsono, Rusuke Hatano, Takashi Inoue, Suwido Limin,

- Gunawan Djajakirana, Suwardi eds; Wise Use of Tropical Peatland, Proceeding of Bogor Symposium and Workshop on Tropical Peatland Management, 19–32(2010)
- Hatano R, Inoue T, Darung U, Limin SH, Morishita T, Takaki F, Toma Y and Yamada H: CO₂ and N₂O emission associated with tropical peatland degradation, Sudarsono, Rusuke Hatano, Takashi Inoue, Suwido Limin, Gunawan Djajakirana, Suwardi eds; Wise Use of Tropical Peatland, Proceeding of Bogor Symposium and Workshop on Tropical Peatland Management, 11–18(2010)
- Mariko ShimizuA, Satoru MarutaniA, Tao JinA Desyatkin R. AlexeyA, Akira MiyataB, Masami ManoB, Ryuichi Hirata B, Shoji MatsuuraC, Masayuki HojitoC, Ryusuke Hatano;Comparison of different approaches for estimating carbon budgets in a managed grassland in Hokkaido, Japan.19th World Congress of Soil Science, Brisbane Conference Hall, Brisbane, Australia, 4 August 2010
- Rui JIANGA, Krishna P. WOLIB, Kanta KURAMOCHIA, Atsushi HAYAKAWAC, Mariko SHIMIZUA, Ryusuke HATANO:Hydrological and land use control on N export sensitivity to climate in three adjacent watersheds.19th World Congress of Soil Science, Brisbane Conference Hall, Brisbane, Australia, 4 August 2010
- Yohei HamadaA, Untung DarungB, Ube ThoB, Suwido H. LiminB, and Ryusuke HatanoC:Gaseous composition of smoke samples obtained at a tropical peatland fire. 19th World Congress of Soil Science, Brisbane Conference Hall, Brisbane, Australia, 4 August 2010
- Hatano R, Inoue T, Darung U, Limin SH, Morishita T, Takaki F, Toma Y and Yamada H: CO₂ and N₂O emission associated with tropical peatland degradation. In the symposium of 4.3.1 Impacts of land-use change in (un)sustainable ecosystems in 19th World Congress of Soil Science, 4 August 2010, Brisbane, Australia, No. 0–0092
- Ryusuke Hatano, Mariko Shimizu and Natsumi Iizuka: Life cycle assessment of manure application effect on GHG budget in forage production systems. Proceedings of 1st International Congress on “Global Climate Changes and Agriculture”, 23–29(2009)
- Shimizu M., Marutani S., Desyatkin A.R., Jin T., Hata H., Hatano R.:Nitrous oxide emissions and nitrogen cycling in a managed grassland in southern Hokkaido, Japan. In Proceedings of The 9th International Conference of ESAFS, “Soils as a Convergent Technology in Tandem with Human and Ecosystem Health” 597–598 (2009)
- Ryusuke HATANO, Atsushi HAYAKAWA, Kanta KURAMOCHI, Masaya NAKATA, Krishna Prasad WOLI, Osamu NAKAHARA and Mariko SHIMIZU: Assessing nitrogen purification function of agricultural basins based on monitoring of nitrogen budget and stream runoff load – A case study on a catchment associated with dairy farming in eastern Hokkaido, Japan. Proceedings of International Conference on NPS Monitoring and Control Measures for Reservoir Water Quality Improvement, 49–58(2008)

- Hatano, R.: Nitrogen Cycling in Agro-Ecosystems of East Asia. Proceedings of Soil Science Conference of Malaysia 2007, 60–68, Mukah, Sarawak, Malaysia (2007)
- 2006 Hatano R.: Nitrogen Cycling in agro-ecosystem of East Asia. Proceedings of Soils 2007 “Peat and other soil factors in crop production”, 60–68(2007)
- Hatano R.: impact of nitrogen cycling on global warming in agro-ecosystems of East Asia. Proceedings of NIAES International Symposium 2006 “Evaluation and Effective Use of Environmental Resources for Sustainable Agriculture in Monsoon Asia–, 18–23(2006)
- Kimura, S.D., Takao, G., Kushida, K., Takakai, F., Koide, T. and Hatano, R.: Use of remote sensing for estimating global warming potential at permafrost area in East-Siberia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 267–276(2006)
- Hashidoko, Y., Ohchi, T., Hatano, R. and Tahara, S.: Both sand particles and organic substances enhance activity of free-living, nitrogen-fixing bacteria inhabiting soil of permafrost terrain in East Siberia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 171–176(2006)
- Nakahara O., Takakai, F., Desyatkin, A. R., Hatano, R., and Desyatkin, R.V.: Surface water chemistry in a continuous permafrost region, Central Yakutia, Eastern Siberia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 129–134 (2006)
- Sawamoto, T., Takakai, F., Desyatkin, A.R., Desyatkin, R.V. and Hatano, R.: Dissolved N₂O and CH₄ in seepage and stream water in Yakutsk. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 123–128(2006)
- Takakai, F., Desyatkin, A.R., Lopez, L., Hatano, R., Fedorov, A.N. and Desyatkin, R.V. : Greenhouse gas emissions from a Siberian alpine ecosystem near Yakutsk, Russia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 11–25(2006)
- Koide, T., Hatano, R. and Maximov, T.C.: Impact of soil temperature and soil moisture on GHG fluxes from an Eastern Siberian Taiga soil at Yakutsk, Russia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 27–38(2006)
- Hatano, R., Takakai, F., Morishita, T., Takao, G. and Desyatkin, R.V.: Contribution of forest fire and land covers to emissions of CO₂, CH₄ and N₂O in Central Yakutia. In: Symptom of Environmental Change in Siberian Permafrost Region (eds, Hatano R. and Guggenberger G.), Hokkaido University Press, Sapporo, Japan, pp 39–54 (2006)

- Hatano R: Environmental Impacts of Nitrogen Load and its Outflow on Agriculture: Problems in East Asian Countries. Proceedings of The 3rd International Workshop of the Japan–Korea Research Cooperation Nitrogen Load in Agro–Ecosystems and its Outflow to Water Bodies: Analyses with Monitoring and Modeling. 5–10, Tsukuba Japan.(2006)
- Hatano, R. : Impact of Nitrogen Cycling on Global Warming in Agro–Ecosystems of East Asia, Proceeding of NIAES International Symposium 2006, 18–23, Tsukuba, Japan (2006)
- Darung U. , Morishita, T., Takakai, R., Dohong S, Limin, S.H., and Hatano R.:The effect of forest fire and agriculture on CO₂ emission from tropical peatlands, Central Kalimantan, Indonesia.
- 2005 Proceedings of the international workshop on Human dimension of tropical peatland under global environmental changes, 112–119, Bogor, Indonesia (2005)
- Takakai, R., Morishita, T., Kuramochi, K., Darung U., Dohong S, Limin, S.H., and Hatano R. :The effect of forest fire and agriculture on CH₄ and N₂O emissions from tropical peatlands, Central Kalimantan, Indonesia. Proceedings of the international workshop on Human dimension of tropical peatland under global environmental changes, 101–111, Bogor, Indonesia (2005)
- Kuramochi, K., Takakai, F, Morishita, T., Hatano, R., Darung U., Limin, SH., Dohong S. and Anwar, S. :Effect of agriculture and forest fire on water quality in tropical peatland in Central Kalimantan, Indonesia. Proceedings of the international workshop on Human dimension of tropical peatland under global environmental changes, 65–71, Bogor, Indonesia(2005)
- Nakahara O, Yamagami T, Koide T, Sakai K, Morishita T and Hatano R: Effect of nitrogen deposition on stream water nitrate and nitrous gas emissions in larch forest in the northern Japan. Proceedings of 3rd International Nitrogen Conference, contributed papers, eds Z. Zhu, K. Minami and G. Xing, 654–657, Science Press and Science Press USA Inc., USA(2005)
- Mu Z.-J., Kimura S. D. and Hatano R.: Contributions of individual greenhouse gases from upland cropping systems in Central Hokkaido to the net global warming potentials. Proceedings of 3rd International Nitrogen Conference, contributed papers, eds Z. Zhu, K. Minami and G. Xing, 707–714, Science Press and Science Press USA Inc., USA(2005)
- Hayakawa A, Hatano R and Hata H: Nitrogen budget approach for environmental evaluation of nitrogen management in beef cattle farming system, Southwestern Hokkaido, Japan. Proceedings of 3rd International Nitrogen Conference, contributed papers, eds Z. Zhu, K. Minami and G. Xing, 65–70, Science Press and Science Press USA Inc., USA(2005)
- Hatano R., Nagumo T., Kimura S. D. and Liang L :Relationship between magnitude of nitrogen pollution and structure of nitrogen cycling associated with food production and consumption in various farms. Proceedings of 3rd International Nitrogen Conference, contributed papers, eds Z. Zhu, K. Minami and G. Xing, 24–29, Science Press and Science Press USA Inc., USA(2005)
- Kimura S. D. and Hatano R.: An Eco – Balance approach to evaluate the impact of agricultural land use on regional sustainability, Proceedings of 3rd International Nitrogen Conference,

- contributed papers, eds Z. Zhu, K. Minami and G. Xing, 14–18, Science Press and Science Press USA Inc., USA(2005)
- Hatano R: Evaluating stream water quality through land use analysis and nitrogen budget approach. in Proceedings of International symposium on management strategies for agricultural and rural non-point source pollution, 75–96, Suwon, Korea (2004)
- 2004 Hatano, R., Nagumo, T., Hata, H. and Kuramochi, K.: Impact of nitrogen cycling on stream water quality in a basin associated with forest, grassland and animal husbandry, Hokkaido, Japan.
- 2002 Proceeding of International Workshop on Riparian Buffer Zones in Agricultural Watersheds:Purification Efficiency, Design and Planning, 12–19 (2002)
- Melling, L, Hatano, R. and Osaki M.: Sustainable agriculture development on tropical peatland, Trans. 17th World Cong. Soil Sci, Paper No. 1919 (CD-ROM) (2002)
- Sawamoto, T., Kusa, K., Hu, R. and Hatano, R.: Dissolved N₂O, CH₄ and CO₂ emission from under-drainage in a structured clay soil cultivated with onion in Central Hokkaido, Japan. Trans. 17th World Cong. Soil Sci, Paper No. 308 (CD-ROM) (2002)
- Hatano, R., Nagumo, T. and Woli P. K.: Sensitivity analysis of the model to predict stream N concentration associated with regional N cycling. Trans. 17th World Cong. Soil Sci, Paper No. 1117 (CD-ROM) (2002)
- Hatano, R., Nakahara, O., Desyatkin, R.V., Okoneshnikova, M.V. and Kamide, K. :Pedogenic processes in alas soils in central Yakutia, Russia: Proceedings of the tenth symposium on the joint siberian permafrost studies between Japan and Russia , 105–112(2002)
- Morishita, T., Hatano, R. and Desyatkin, R.V.: CH₄ flux from a forest-Alas ecosystem near Yakutsk, eastern Siberia, Russia.: Proceedings of the tenth symposium on the joint siberian permafrost studies between Japan and Russia , 39–52(2002)
- Kamide, K. , R Hatano, O Nakahara, T Sawamoto, K Takahashi, R.V. Desyatkin: Effect of forest fire on physico-chemical properties of Taiga soils in Yakutsk, Russia, Fukuda et al. (eds)
- 2001 Proceedings of the ninth symposium on the joint siberian permafrost studies between Japan and Russian , 104–111 (2001)
- Morishita, T. R. Hatano, T. Sawamoto, O. Nakahara, K. Takahashi, A.P. Isaev, R.V. Desyatkin, T.C. Maximov: Methane fluxes in forest, grassland, and wetland soils, near Yakutsk, Russia, Fukuda et al. (eds) Proceedings of the ninth symposium on the joint siberian permafrost studies between Japan and Russian , 150–155 (2001)
- Sawamoto, T., R. Hatano, M. Shibuya, H. Saito, Y. Tuno, K. Takahashi, A.P. Isaev, R.V. Desyatkin, and T.C. Maximov: Effect of forest fire on NEP in Taiga soil ecosystems, near Yakutsk, Russia, , Fukuda et al. (eds) Proceedings of the ninth symposium on the joint siberian permafrost studies between Japan and Russian , 120–127 (2001)
- Hatano R., Nakahara O., Sawamoto T., Morishita T. and Kamide K: Effect of forest fire on

- nutrient cycling in Taiga soil ecosystems in Yakutsk, Russia., Fukuda et al. (eds) Proceedings of the ninth symposium on the joint siberian permafrost studies between Japan and Russian , 99–103, 2001
- 2000 Hasegawa, M., Koizumi, T., Takahashi, K., Shibuya, M., Hatano, R., Kondrashov, L.G. and Sapozhnikov, A.P.: Comparative studies of soil fauna between felling site and an unfelling site in at Khabarovsk Suburbs, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint Siberian permafrost studies between Japan and Russian in 1999", 104–110 (2000)
- Takahashi, K., Hatano, R., Shibuya, M., Sawamoto, T., Yamamoto, G., Tsuno, Y., Isaev, A.P., and Maximov, T.C. : Characteristics of ground vegetation at Neleger Alas, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint Siberian permafrost studies between Japan and Russian in 1999", 77–82(2000)
- Tsuno, Y., Shibuya, M., Takahashi, K., Hatano, R., Sawamoto, T., Isaev, A.P., and Kononov, A.V., and Maximov, T.C. Trend of spatial distribution of Larix trees with stand growth in eastern Siberia, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint siberian permafrost studies between Japan and Russian in 1999", 16–22(2000)
- Morishita, T., Hatano, R., Nagata, O., Takahashi, K., Shibuya, M., Sapozhnikov, A. P., and Kondrashov, L. G.: Methane uptake of forest soils near Khabarovsk, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint siberian permafrost studies between Japan and Russian in 1999", 154–159 (2000)
- Sawamoto, T., Hatano, R., Shibuya, M., Takahashi, K., Isaev, A., and Maximov, T.C. :Effect of forest fire on carbon cycling in Taiga soil–plant systems, near Yakutsk, Russia, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint siberian permafrost studies between Japan and Russian in 1999", 230–236 (2000)
- Hatano, R., Sawamoto, T. Desyatkin, R.M., Isaev, A.P., Takahashi, K., Shibuya, M., and Maximov, T.C. :Effect of forest fire on physico–chemical properties of Taiga permafrost soils, near Yakutsk, Russia, Inoue et al. (eds) "Proceedings of the eighth symposium on the joint siberian permafrost studies between Japan and Russian in 1999", 111–120 (2000)
- Nagumo, T., and Hatano, R. Nitrogen Losses to the Environment with Production and 1999 Consumption of Food in Hokkaido, and their Impact on Water Quality. Proceeding in international symposium of bio–recycling composting in Sapporo. 37–39 (1999)
- Sawamoto, T. Hatano, R., Takahashi, K., Shibuya, M., Isaev, A.P., Desyatkin, R. M., Maximov, T.C. and Ivanov, B.I. : Soil respiration and fluxes of N₂O and CH₄ in Siberian–Taiga ecosystems with different histories of forest fire, M. Shibuya et al. (eds) "Proceedings of the seventh symposium on the joint siberian permafrost studies between Japan and Russian in 1998", 77–89 (1999)
- 1998 Yajima, T., Takahashi,K., Sasaoka, E., Hatano, R., Sawamoto, T., Ivanov, B.I., Isaev, A.P. and

- Maximov, T.C.: Stand Structure and Biomass of *Larix xajanderi* forest in the Siberian Taiga. S.Mori et al. (eds) "Proceedings of the sixth symposium on the joint siberian permafrost studies between Japan and Russan in 1997", 72-80(1998)
- Sawamoto, T. Hatano, R. Yajima, T., Takahashi, K., Isaev, A.P., Maximov, T.C. and Ivanov, B.I. : Soil respiration in Siberian-Taiga ecosystems with different history of forest fire, S.Mori et al. (eds) "Proceedings of the sixth symposium on the joint siberian permafrost studies between Japan and Russan in 1997", 112-123(1998)
- Shibata, H., Kirikae M., Tanaka, Y., Sakuma, T. and Hatano, R.: Proton budgets of forest soils
1997 during the snowmelt process in Hokkaido, Nothern Japan. In: K.Aoyama et al. (eds) "Acid snow and rain": 491-496(1997)
- Hatano, R. and Sawamoto, T.: Emission of N₂O from clayey aquic soil cultivated with Onion plants.In: T.Ando et al.(eds) "Plant Nutrition for sustainable food production and environment", Kluwer Academic publishers, Dordrecht. 555-556(1997)
- Shibata, H., Tanaka, Y., Sakuma, T. and Hatano, R. : Relationship between soil acidification and nutrient cycling in a forest ecosystem on Volcanogeneous Regosols in Hokkaido, northern Japan.In: T.Ando et al.(eds) "Plant Nutrition for sustainable food production and environment", Kluwer Academic publishers, Dordrecht. 547-548(1997)
- Hatano, R. and Sakuma, T.: The role of macropores on rooting pattern and movement of water and solutes in various field soils. Trans. 14th Inter. Cong. Soil Sci., VolII, 130-135 (1990).