

**AYA SAKAGUCHI PhD**  
**Original National/International Journal Papers**

1. K. Sasa, T. Takahashi, T. Matsunaka, S. Hosoya, M. Muramatsu, S. Hosoya, H. Shen, M. Honda, K. Takano, Y. Ochiai, **A. Sakaguchi**, K. Sueki, M. Stodola, M. Sunquest, The 6-MV multi-nuclide AMS system at University of Tsukuba, Ibaraki, Japan: First Performance report. Nuclear Inst. and Methods in Physics Research B, 437, 98-102, 2018
2. **A. Sakaguchi**, R. Inaba, K. Sasa, T. Matsunaka, S. Hosoya, T. Takahashi, M. Honda, H. Yamano, K. Sasaki, S. Yamasaki, T. Watanabe, K. Sueki, Reconstruction of anthropogenic <sup>129</sup>I temporal variation in the Japan Sea using a coral core sample, Marine Environmental Research, 142, 91-99, 2018.
3. **A. Sakaguchi**, H. Chiga, K. Tanaka, H. Tsuruta, Y. Takahashi, Estimation of desorption ratios of radio/stable caesium from environmental samples (aerosols and soils) leached with seawater, diluted seawater and ultrapure water, Geochemical Journal, 52, 187-199, 2018.
4. H. Miura, Y. Kurihara, **A. Sakaguchi**, A. Tanaka, K. Yamaguchi, N. Higaki, S. and Takahashi, Y. (2018) Discovery of radiocesium-bearing microparticles in river water and their influence on the solid-water distribution coefficient ( $K_d$ ) of radiocesium in the Kuchibuto River in Fukushima,
5. K. Tanaka, N. Watanabe, S. Yamasaki, **A. Sakaguchi**, Q. Fan, Y. Takahashi, Mineralogical control of the size distribution of stable Cs and radiocesium in riverbed sediments, Geochemical Journal, 52, 173-185, 2018.
6. Y. Takahashi, Q. Fan, H. Suga, K. Tanaka, **A. Sakaguchi**, Y. Takeichi, K. Ono, K. Mase, K. Kato, V.V. Kanivets, Comparison of Solid-Water Partitions of Radiocesium in River Waters in Fukushima and Chernobyl Areas. Scientific Reports, 7, 12407, 2017.
7. A. Usui, K. Nishi, H. Sato, Y. Nakasato, B. Thornton, T. Kashiwabara, A. Tokumaru, **A. Sakaguchi**, K. Yamaoka, S. Kato, S. Nitahara, K. Suzuki, K. Iijima, T. Urabe, Continuous growth of hydrogenetic ferromanganese crusts since 17 Myr ago on Takuyo-Daigo Seamount, NW Pacific, at water depths of 800–5500 m, Ore Geology Reviews, 87, 71-87, 2017.
8. K. Sakata, **A. Sakaguchi**, Y. Yokoyama, Y. Terada, Y. Takahashi Lead Speciation Studies on Coarse and Fine Aerosol Particles by Bulk and Micro X-ray Absorption Fine Structure Spectroscopy, Geochemical Journal, 51, 215-225, 2017
9. S. Iwagami, M. Tsujimura, Y. Onda, M. Nishino, R. Konuma, Y. Abe, M. Hada, I. Pun, **A. Sakaguchi**, H. Kondo, M. Yamamoto, Y. Miyata, Y. Igarashi, Temporal changes in dissolved <sup>137</sup>Cs concentrations in groundwater and stream water in Fukushima after the Fukushima Daiichi Nuclear Power Plant accident. , J. Environ. Radioactivity, 166, 458-465, 2017.
10. T. Nomura, **A. Sakaguchi**, P. Steier, R. Eigl, A. Yamakawa, Takaaki Watanabe, K. Sasaki, T. Watanabe, R. Golser, Y. Takahashi, H. Yamano, Reconstruction of the temporal distribution

of  $^{236}\text{U}/^{238}\text{U}$  in the Northwest Pacific Ocean using a coral core sample from the Kuroshio Current area, *Marine Chemistry*, 190, 28-34, 2017.

11. R. Eigl, P. Steier, K. Sakata, A. Sakaguchi, Vertical distribution of  $^{236}\text{U}$  in the North Pacific Ocean, *Journal of Environmental Radioactivity*, 169-170:70-78, 2017
12. R. Eigl, P. Steier, S. Winkler, K. Sakata, A. Sakaguchi, First study on  $^{236}\text{U}$  in the Northeast Pacific Ocean using a new target preparation procedure for AMS measurements, *Journal of Environmental Radioactivity*, 162-163, 244-250, 2016
13. V.F. Stepanenko, T.K. Rakhypbekov, A.D. Kaprin, S.A. Ivanov, K. Otani, S. Endo, K. Satoh, N. Kawano, T. Takatsuji, M. Nakashima, K. Shichijo, A. Sakaguchi, H. Kato, Y. Onda, N. Fujimoto, S. Toyoda, H. Sato, T. Kolyzhenkov, A.S. Petukhov, A.A. Dyussupov, N.Z. Chaizhunusova, N.B. Sayakenov, D. Uzbekov, A.Z. Saimova, D.M. Shabdarbaeva, L.N. Pivina, M.K. Skakov, A.D. Vurim, V.S. Gnyrya, A.C. Azimkhanov, A.N. Kolbayenkov, K.S. Zhumadilov, Y.O. Kairkhanova, E.K. Yaskova, I.G., Belukh, V.G. Skvortsov, A.I. Ivannikov, A.M. Khailov, U.A. Akhmedova, V.V. Bogacheva, Yu.N. Anokhin, S. Orlenko, M. Hoshi, Irradiation of laboratory animals by neutron activated dust: development and application of the method – first results of international multicenter study, *Radiation and Risk (in Russian)*, 25, 111-125, 2016
14. A. Sakaguchi, T. Nomura, P. Steier, R. Golser, K. Sasaki, T. Watanabe, T. Nakakuki, Y. Takahashi, H. Yamano Temporal and vertical distributions of anthropogenic  $^{236}\text{U}$  in the Japan Sea using a coral core and seawater samples, *Journal of Geophysical Research*, 121, 4-13, 2016.
15. K. Tanaka, H. Kondo, A. Sakaguchi, Y. Takahashi, Cumulative history recorded in the depth distribution of radiocesium in sediments deposited on a sandbar *Journal of Environmental Radioactivity*, 150, 213-219, 2015.
16. A. Sakaguchi, K. Tanaka, H. Iwatani, H. Chiga, Q. Fan, Y. Onda, and Y. Takahashi, Size distribution studies of  $^{137}\text{Cs}$  in river water in the Abukuma riverine system following the Fukushima Dai-ichi Nuclear Power Plant accident, *J. Environ. Radioactivity*, 139, 379-389, 2015.
17. K. Yoshimura, Y. Onda, A. Sakaguchi, M. Yamamoto, Y. Matsuura, An extensive study of the concentrations of particulate/dissolved radiocaesium derived from the Fukushima Dai-ichi Nuclear Power Plant accident in various river systems and their relationship with catchment inventory, *J. Environ. Radioactivity*, 139, 370-378, 2015.
18. K. Tanaka, H. Iwatani, A. Sakaguchi, Y. Takahashi, Q. Fan, Size-dependent distribution of radiocesium in riverbed sediments and its relevance to the migration of radiocesium in river systems after the Fukushima Daiichi Nuclear Power Plant accident, *J. Environ. Radioactivity*, 139, 390-397, 2015.
19. K. Tanaka, H. Iwatani, A. Sakaguchi, Y. Takahashi, Y. Onda, Relationship between particle size and radiocesium in fluvial suspended sediment related to the Fukushima Daiichi Nuclear Power Plant accident, *J. Radioanal. Nucl. Chem.*, 301, 607-613, 2014.

10.1007/s10967-014-3159-1.

20. H. Suga, Q. Fan, Y. Takeichi, K. Tanaka, H. Kondo, V. V. Kanivets, **A. Sakaguchi**, K. Kato, N. Inami, K. Mase, K. Ono, and Y. Takahashi, Characterization of Particulate Matters in the Pripyat River in Chernobyl related to Its Adsorption of Radiocesium with Inhibition Effect by Natural Organic Matter, *Chemistry Letters*, 43, 1128-1130, 2014. doi:10.1246/cl.140222.
21. M. Yamamoto, **A. Sakaguchi**, S. Ochiai, and T. Imanaka, Isotopic compositions of transuranic nuclides released by the Fukushima Dai-ichi Nuclear Power Plant accident: with emphasis on Cm isotope, *J. Radioanal. Nucl. Chem.* 300, 1045-1-52, 2014. 10.1007/s10967-014-3003-7.
22. T. Wakahara, Y. Onda, H. Kato, **A. Sakaguchi**, K. Yoshimura, Radiocesium discharge from paddy fields with different initial scrapings for decontamination after the Fukushima Dai-ichi Nuclear Power Plant accident, *Environmental Science: Processes & Impacts*, 16, 2580-2591, 2014.
23. T. Kashiwabara, Y. Oishi, **A. Sakaguchi**, T. Sugiyama, A. Usui, Y. Takahashi, Chemical processes for the extreme enrichment of tellurium into marine ferromanganese oxides, *Geochim. Cosmochim. Acta*, 131, 150-163, 2014.
24. Q.H. Fan, M. Tanaka, K. Tanaka, **A. Sakaguchi**, Y. Takahashi, An EXAFS study on the effects of natural organic matter and the expandability of clay minerals on cesium adsorption and mobility. *Geochim. Cosmochim. Acta*, 135, 49-65, 2014.
25. **A. Sakaguchi**, P. Steier, Y. Takahashi, and M. Yamamoto, Isotopic compositions of <sup>236</sup>U and Pu isotopes in “Black Substances” collected from roadsides in Fukushima Prefecture: fallout from the Fukushima Dai-ichi Nuclear Power Plant accident, *Environ. Sci. & Tech.* 48, 3691-3697, 2014.
26. M. Yamamoto, **A. Sakaguchi**, S. Ochiai, T. Takada, K. Hamataka, T. Murakami, and S. Nagao, Isotopic Pu, Am and Cm, signatures in environmental samples contaminated by the Fukushima Dai-ichi Nuclear Power Plant Accident, *J. Environ. Radioactivity*, 132, 31-46, 2014.
27. K. Sakata, **A. Sakaguchi**, M. Tanimizu, Y. Takaku, Y. Yokoyama, Y. Takahashi, Identification of sources of lead in the atmosphere by chemical speciation using X-ray absorption near-edge structure (XANES) spectroscopy, *Journal of Environmental Science*, 26, 343-352, 2014.
28. K. Tokunaga, Y. Yokoyama, S. Kawagucci, **A. Sakaguchi**, Y. Terada, Y. Takahashi, Selenium Coprecipitated with Barite in Marine Sediments as a Possible Redox Indicator, *Chemistry Letters*, 42, 1068-1069, 2013.
29. K. Tanaka, **A. Sakaguchi**, Y. Kanai, H. Tsuruta, A. Shinohara Y. Takahashi. Heterogeneous distribution of radiocesium in aerosols, soil and particulate matters emitted by the Fukushima Daiichi Nuclear Power Plant accident: retention of micro-scale heterogeneity during the migration of radiocesium from the air into ground and river systems, *Journal of Radioanalytical Nuclear and chemistry*. 295, 1927-1937, 2013.

30. **A. Sakaguchi**, M. Hoshi, M. Aoyama, H. Kato, Y. Onda, Soil particle size measurements for the calculation of the spread of dusts blown up by the explosion of the Hiroshima atomic bomb - For radiation dose estimation from neutron activated dusts of soils used in traditional Japanese houses and those of the ground surface -, Revisit The Hiroshima A-bomb with a Database-Last scientific view on local fallout and Black Rain, ISBN 978-4-9905935-1-3, 15-24, 2013.
31. GD., SD Egbert, I. Al-Nabulsi I, HL. Beck, HM. Cullings, S. Endo, M. Hoshi, T. Imanaka, DC. Kaul, S. Maruyama, GI. Reeves, Ruehm, **A. Sakaguchi**, SL. Simon, GD. Spriggs, DO. Stram, T. Tonda, JF. Weiss, RL. Weitz, RW. Young. Workshop report on atomic bomb dosimetry-residual radiation exposure: recent research and suggestions for future studies, Health Physics, 105, 140-149, 2013.
32. K. Tanaka, H. Iwatani, **A. Sakaguchi** and Y. Takahashi. Local distribution of radioactivity in tree leaves contaminated by fallout of the radionuclides emitted from the Fukushima Daiichi Nuclear Power Plant, Journal of Radioanalytical Nuclear and chemistry. 295, 2007-2014, 2013.
33. **A. Sakaguchi**, A. Kadokura, P. Steier, Y. Takahashi, K. Shizuma, M. Hoshi, T. Nakakuki, M. Yamamoto, Uranium-236 as a new oceanic tracer: a first depth profile in the Japan Sea and comparison with caesium-137, Earth and Planetary Science Letters, 333-334, 165-170, 2012.
34. **A. Sakaguchi**, A. Kadokura, P. Steier, K. Tanaka, Y. Takahashi, H. Chiga, A. Matsushima, S. Nakashima and Y. Onda, Isotopic determination of U, Pu and Cs in environmental waters following the Fukushima Daiichi Nuclear Power Plant accident. Geochemical Journal, 46, 355-360, 2012.
35. M. Yamamoto, T. Takada, S. Nagao, T. Koike, K. Shimada, M. Hoshi, K. Zhumadilov, T. Shima, M. Fukuoka, T. Imanaka, **A. Sakaguchi**, S. Kimura, An early survey of the radioactive contamination of soil due to the Fukushima Dai-ichi Nuclear Power Plant accident, with emphasis on plutonium analysis, Geochemical Journal, 46 (2012) 341-353.
36. K. Tanaka, Y. Takahashi, **A. Sakaguchi**, M. Umeo, S. Hayakawa, H. Tanida, T. Saito, Y. Kanai, Vertical Profiles of Iodine-131 and Cesium-137 in Soils in Fukushima Prefecture related to the Fukushima Daiichi Nuclear Power Station Accident, Geochemical Journal, 43, 73-76, 2012.
37. H. Qin, Y. Yokoyama, Q. Fan, H. Iwatani, K. Tanaka, **A. Sakaguchi**, Y. Kanai, J. Zhu, Y. Onda, and Y. Takahashi, Investigation of cesium adsorption on soil and sediment samples from Fukushima Prefecture by sequential extraction and EXAFS technique, Geochemical Journal.46, 297-302, 2012.
38. A. Orkhonselenge, K. Mino, K. Kashiwaya, S. Krivonogv, M. Yamamoto, **A. Sakaguchi**, T. Nakamura, Holocene hydro-environmental changes in northern Mongolia inferred from lacustrine sediments in Borsog Bay of Lake Khuvsgul, Journal of Earth Environment, 2,

457-461, 2011.

39. **A. Sakaguchi**, H. Chiga, K. Shizuma, M. Hoshi, M. Yamamoto, Preliminary results on  $^{137}\text{Cs}$  in soil core samples collected from the under-floors of houses built within 1-4 years after the Hiroshima Atomic Bomb, Revisit the Hiroshima A-bomb with a Database-Last scientific view on local fallout and Black Rain, ISBN 978-4-9905935-0-6, 93-96, 2011.
40. **A. Sakaguchi**, K. Kawai, P. Steier, T. Imanaka, M. Hoshi, S. Endo, K. Zhumadilov, M. Yamamoto, Feasibility of using  $^{236}\text{U}$  to reconstruct close-in fallout deposition from the Hiroshima Atomic Bomb, Science of the Total Environment, 408, 5392-5398, 2010.
41. K. Tanaka, S. Ohde, **A. Sakaguchi**, CW. McLeodc, AG. Cox, Pb/Ca in Thailand coral determined by LA-ICPMS: Anthropogenic Pb input of river run-off into a coral reef from urbanised areas, Water, Air, and Soil Pollution, 211, 211-218, 2010.
42. T. Imanaka, M. Yamamoto, K. Kawai, **A. Sakaguchi**, M. Hoshi M, N. Chaizhunusova, K. Apsalikov, Reconstruction of local fallout composition and gamma-ray exposure in a village contaminated by the first USSR nuclear test in the Semipalatinsk nuclear test site in Kazakhstan. Radiation and environmental biophysics. Radiation and Environment Biophysics, 49, 673-84, 2010.
43. M. Yamamoto, J. Tomita, **A. Sakaguchi**, Y. Ohtsuka, M. Hoshi, K N Apsalikov, Uranium isotopes in well water samples as drinking sources in some settlements around the Semipalatinsk Nuclear Test Site, Kazakhstan, Journal of Radioanalytical and Nuclear Chemistry. 284, 309-314, 2010.
44. J. Tomita, H. Satake, T. Fukuyama, K. Sasaki, **A. Sakaguchi**, M. Yamamoto, Radium geochemistry in Na-Cl type groundwater in Niigata Prefecture, Japan. Journal of Environmental Radioactivity, 101, 201-210, 2010.
45. **A. Sakaguchi**, K. Kawai, P. Steier, J. Tomita, M. Hoshi, M. Yamamoto, FIRST RESULTS ON  $^{236}\text{U}$  LEVEL IN SOILS FROM GLOBAL FALLOUT-APPLICATION FOR ENVIRONMENTAL DINAMICS-, Proceedings of International Workshop on Low-level Measurement of Radionuclides and Its Application to Earth and Environmental Sciences, ISBN 978-4-924861-23-7, 81-87, 2010
46. W.H. Nahm, G.H. Lee, D.Y. Yang, J.Y. Kim, K. Kashiwaya, M. Yamamoto, **A. Sakaguchi**, A 60-year record of rainfall from the sediments of Jinheung Pond, Jeongeup, Korea, Journal of Paleolimnology. 43, 489-498, 2010.
47. K. Kashiwaya, S. Ochiai, G. Sumino, T. Tsukamoto, A. Szyzniszewska, M. Yamamoto, **A. Sakaguchi**, N. Hasebe, H. Sakai, T. Watanabe, T. Kawai, Climato-hydrological fluctuations printed in long lacustrine records in Lake Hövsgöl, Mongolia, Quaternary International. 219, 178-187, 2010.
48. M. Yamamoto, **A. Sakaguchi**, H. Kofuji, Uranium in acidic mine drainage at the Former Ogoya Mine in Ishikawa Prefecture of Japan, Journal of Radioanalytical and Nuclear Chemistry. 283, 699-705, 2010.

49. **A. Sakaguchi**, K. Kawai, P. Steier, F., Quinto, K. Mino, K., J. Tomita, M. Hoshi, N. Whitehead, M. Yamamoto. First results on  $^{236}\text{U}$  levels in global fallout. *Science of the Total Environment*. 407, 4238-4242, 2009.
50. **A. Sakaguchi**, M. Yamamoto, J. Tomita et al. Uranium-series chronology for sediments of Lake Hovsgol, Mongolia, and the 1-Ma records of Uranium and Thorium isotopes from the HDP-04 drill core. *Quaternary International*. 205, 65-73, 2009.
51. M. Yamamoto, **A. Sakaguchi**, J. Tomita, T. Imanaka, K. Shiraishi, Measurements of  $^{210}\text{Po}$  and  $^{210}\text{Pb}$  in total diet samples: Estimate of dietary intakes of  $^{210}\text{Po}$  and  $^{210}\text{Pb}$  for Japanese, *Journal of Radioanalytical and Nuclear Chemistry*, *Journal of Radioanalytical and Nuclear Chemistry*, 279, 93-103, 2009.
52. M. Yamamoto, S. Oikawa, **A. Sakaguchi**, J. Tomita, M. Hoshi, K.N. Apsalikov, Determination of  $^{239,240}\text{Pu}$  isotope ratios in human tissues collected from areas around the Semipalatinsk Nuclear Test Site by sector-field high resolution ICP-MS. *Health Physics*, 95, 291-299, 2008.
53. M. Yamamoto, J. Tomita, **A. Sakaguchi**, T. Imanaka, S. Fukutani, S. Endo, K. Tanaka, M. Hoshi, B.I. Gusev, K.N. Apsalikov, Spatial distribution of soil contamination by  $^{137}\text{Cs}$  and  $^{239,240}\text{Pu}$  in the village of Dolon near the Semipalatinsk Nuclear Test Site: New information on traces of the radioactive plume from the 29 August, 1949 Nuclear Test. *Health Physics*, 94, 328-337, 2008.
54. S. Endo, J. Tomita, K. Tanaka, M. Yamamoto, S. Fukutani, T. Imanaka, **A. Sakaguchi**, H. Amano, H. Kawamura, H. Kawamura, K.N. Apsalikov, B.I. Gusev, N. E. Whitehead, S. Shinkarev, M. Hoshi, Iodine-129 measurements in soil samples from Dolon village near the Semipalatinsk Nuclear Test Site, *Radiation and Environmental Biophysics*, 47, 359-365, 2008.
55. **A. Sakaguchi**, M. Yamamoto, M. Hoshi, T. Imanaka, K. N. Apsalikov, B. I. Gusev, Radiological Situation in the Vicinity of Semipalatinsk Nuclear Test Site : Dolon, Mostik, Cheremshki and Budene Settlements, *Journal of Radiation Research*, 47, A101-A116, 2006.
56. **A. Sakaguchi**, M. Yamamoto, K. Sasaki, K. Kashiwaya, Uranium and Thorium Isotope Distribution in the offshore Bottom Sediment Core of the Selenga Delta, in Lake Baikal, Siberia, *Journal of Paleolimnology*, 35, 807-818, 2006.
57. J. Tomita, **A. Sakaguchi**, M. Yamamoto, Hokutolite Collected from Riverbed at Peitou Hot Spring in Taiwan: With Emphasis on Radiochemical Studies, *Journal of Radioanalytical and Nuclear Chemistry*, 270, 567-574, 2006.
58. M. Yamamoto, **A. Sakaguchi**, K. Sasaki, K. Hirose, Y. Igarashi, C.K. Kim, Seasonal and spatial variation of atmospheric  $^{210}\text{Pb}$  and  $^7\text{Be}$  deposition: features of the Japan Sea side of Japan, *Journal of Environmental Radioactivity*, 86, 110-131, 2006.
59. M. Yamamoto, M. Hoshi, **A. Sakaguchi**, K. Shinohara, O. Kurihara, K. N. Apsalikov, B. I. Gusev, Plutonium and Uranium in Human Bones from Areas surrounding the

- Semipalatinsk Nuclear Test Site, *Journal of Radiation Research*, 47, A85-A94, 2006.
60. V. F. Stepanenko, M. Hoshi, M. Yamamoto, A. Sakaguchi, J. Takada, H. Sato, E.K. Iaskova, T.V. Kolizshenkov, I.G. Kryukova, K. N. Apsalikov, B. I. Gusev, H. Jungner, International Intercomparison of Retrospective Luminescence Dosimetry Method: Sampling and Distribution of The Brick Samples from Dolon' Village, Kazakhstan, *Journal of Radiation Research*, 47, A15-A21, 2006.
  61. V. F. Stepanenko, M. Hoshi, Y.V. Dubasov, A. Sakaguchi, M. Yamamoto, M.Y. Orlov, I.K. Bailiff, A.I. Ivannikov, V.G. Skvortsov, E.K. Iaskova, I.G. Kryukova, K.S. Zhumadilov, S. Endo, K. Tanaka, K. N. Apsalikov, B. I. Gusev, A Gradient of Radioactive Contamination in DolonVillage near the SNTS and Comparison of Computed Dose Values with Instrumental Estimates for the 29 August, 1949 Nuclear Test, *Journal of Radiation Research*, 47, A149-A158, 2006.
  62. T. Imanaka, S. Fukutani, M. Yamamoto, A. Sakaguchi, M. Hoshi, External Radiation in Dolon Village due to Local Fallout from the First USSR Atomic Bomb Test in 1949, *Journal of Radiation Research*, 47, A121-A127, 2006.
  63. M. Yamamoto, A. Sakaguchi, M. Funatsu, H. Kofuji, H. Tokuyama, Determination of Deposition of cosmogenic radionuclide  $^{35}\text{S}$  and sulfate in a heavy-snowfall area facing the Sea of Japan. *Journal of Radioanalytical and Nuclear Chemistry*, 268, 569-577, 2006.
  64. A. Sakaguchi, Y. Ohtsuka, K. Yokota, K. Sasaki, K. Komura, M. Yamamoto, Cosmogenic radionuclide  $^{22}\text{Na}$  in the Lake Biwa system: Residence Time, transport and application to the hydrology, *Earth and Planetary Science Letters*, 231, 306-317, 2005.
  65. T. Imanaka, S. Fukutani, M. Yamamoto, A. Sakaguchi, M. Hoshi, Width and Center-axis Location of the Radioactive Plume That Passed Over Dolon and Nearby Villages on the Occasion of the First USSR A-bomb Test in 1949, *Journal of Radiation Research*, 46, 395-399, 2005.
  66. A. Sakaguchi, M. Yamamoto, M. Hoshi, K. N. Apsalikov, B. I. Gusev, Plutonium isotopes and  $^{137}\text{Cs}$  in Dolon settlement near the Semipalatinsk Nuclear Test Site: About 50 years after the First Nuclear Weapon testing, *Journal of Radioanalytical and Nuclear Chemistry*, 261, 543-555, 2004.
  67. M. Yamamoto, M. Hoshi, J. Takada, A. Sakaguchi, K. N. Apsalikov, B. I. Gusev, Distributions of Pu isotopes and  $^{137}\text{Cs}$  in Soil from Semipalatinsk Nuclear Test Site detonations throughout southern district, *Journal of Radioanalytical and Nuclear Chemistry*, 261, 19-36, 2004.
  68. A. Sakaguchi, M. Yamamoto, T. Shimizu, S. Koshimizu, Geochemical record of U and Th isotopes in bottom sediments of Lake Kawaguchi at the foot of Mt. Fuji, Central Japan, *Journal of Radioanalytical and Nuclear Chemistry*, 262, 617-628, 2004.
  69. M. Yamamoto, M. Hoshi, J. Takada, A. Sakaguchi, K. N. Apsalikov, B. I. Gusev, Plutonium,  $^{137}\text{Cs}$  and U in some pond and lake sediments from areas surrounding the Semipalatinsk

Nuclear Test Site: With emphasis on anomalously high U accumulation, Journal of Radioanalytical and Nuclear Chemistry, 262, 607-616, 2004.

70. M. Hoshi, M. Yamamoto, J. Takada, **A. Sakaguchi**, K. N. Apsalikov, B. I. Gusev, Radioactive contamination on land and external radiation dose in residential areas around the Former Soviet Union's Semipalatinsk Nuclear Test Site: A review of our studies since 1995, Indian Journal of Radiation Research, 1, 1-20, 2004.
71. **A. Sakaguchi**, M. Yamamoto, Y. Ohtsuka, K. Sasaki, K. Yokota, K. Komura, Low-level measurement of cosmogenic radionuclide  $^{22}\text{Na}$  in fresh water by ultra-low-background  $\gamma$ -ray spectrometry after simple radiochemical separation, Journal of Radioanalytical and Nuclear Chemistry, 258, 101-105, 2003.



## Japanese Papers

1. 山本政儀、坂口綾、新たな研究分野を目指して：新規トレーサー<sup>236</sup>U に着目した地球・環境科学研究、地球化学、51-4、221-237, 2017.
2. 山本政儀、坂口綾、福島第一原子力発電所事故に絡む環境アクチノイド元素諸核種、地球化学、49、173-184, 2015.
3. 高橋嘉夫、ファンチャオファイ、東郷 洋子、坂口綾、田中万也、X線分光法による放射性セシウムおよび放射性ヨウ素の陸域表層での移行過程の解明、放射光, 27, 20-28. 2014.
4. 坂口綾、門倉彰伸、シュタイアーピーター、山本政儀、坂田昂平、富田純平、高橋嘉夫、環境中の人工ウラン同位体 U-236 を利用した研究-海洋循環トレーサーとしての確立を目指して-、分析化学、62, 1001-1012, 2013.
5. 田中万也、坂口綾、岩谷北斗、高橋嘉夫、福島第一原子力発電所事故由来の放射性セシウムの環境中での移行挙動とミクロスケールでの不均質性、放射化学、27号、12-19, 2013.
6. 高橋嘉夫、東郷洋子、田中万也、坂口綾、化学種解析に基づく放射性セシウムおよび放射性ヨウ素の移行挙動の理解、表面科学、34, 119-124, 2013.
7. 勝部亜矢、早坂康隆、坂口綾、高橋嘉夫、213 nm Nd-YAG レーザーアブレーション ICP 質量分析装置を用いたジルコンの U-Pb 局所年代分析：SHRIMP データとの整合性の検、地質学雑誌、118, 762-767, 2012.
8. T. Itono, K. Kashiwaya and A. Sakaguchi, Disastrous flood events found in lacustrine sediments from Lake Biwa, 地形, 33, 455-470, 2012.
9. 富田純平、佐竹洋、佐々木圭一、坂口綾、井上睦夫、浜島靖典、山本政儀、大深度掘削井から得られた Na-Cl 型温鉱泉水中のラジウム(Ra)同位体：石川県沿岸地域、温泉科学、58, 241-255.