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Academic degrees obtained

B. Sc. Fudan University, Shanghai, P.R. China
Radiochemistry, July 1987

M. Sc. The Chinese Academy of Sciences, Shanghai, P.R. China
Radioanalytical Chemistry, September 1990

Ph. D. Institute for Analytical Chemistry, Karl-Franzens University Graz, Austria
Environmental Analytical Chemistry, October 1998

Work experience

1990-02/1995 Research Assistant/Associate
Shanghai Institute of Nuclear Research, The Chinese Academy of Sciences, China

03/1996-03/1999 Ph.D. study and visiting scientist, Karl-Franzens University Graz, Institute for Analytical Chemistry, Austria

04/1999---02/2001 Post-doctoral Fellow
Environmental Chemistry Laboratory, Dept. of Applied Chemistry, Faculty of Science and Engineering, Chuo University, Tokyo, Japan,

03/2001---04/2002 STA Research Fellow
Environmental Chemistry Division, National Institute for Environmental Studies (NIES), Tsukuba, Japan

05/2002----03/2003 Research Associate
Environmental Science Centre, Trent University, Peterborough, Canada

04/2003---03/2008 Research Scientist (研究職員、tenure-tracked)
04/2008---present Senior Researcher (主任研究員、with tenure)
Research Center for Radiation Protection, National Institute of Radiological Sciences (NIRS), Japan

12/2010--- Adjunct Professor
Shanghai Institute of Applied Physics, the Chinese Academy of Sciences

08/2014--- Guest Professor
Chinese Research Academy of Environmental Sciences, Beijing, China

Memberships

Japan Plasma Research Discussion Group, 1999---
The Japan Society for Analytical Chemistry, 2000---
Shanghai Society of Nuclear Science Research, P. R. China, 1990---
Shanghai Society of Trace Element Research, P. R. China, 1990---
The Geochemical Society of Japan, 2003---
The Oceanographic Society of Japan, 2003---
日本放射線影響学会、2006---
日本放射化学学会、2006--
American Geophysical Union, 2006---

Awards and Fellowships

1. People's Scholarship, Fudan University, Shanghai, China, 1983-1987
2. SINR excellent research articles awards, Shanghai Institute of Nuclear Research (SINR), Chinese Academy of Sciences, 1990 and 1992
3. North-South Dialogue Fellowship, Austria, 1996-1998
4. Chinese Ministry of Education, "ChunHui Plan" Travel Scholarship, December, 1996
5. Japan Science and Technology Research Fellowship (STA), Japan, March, 2001
6. K. C. Wong Education Foundation Research Fellowship, Hong Kong, July, 2004
7. 2005 获授"中国科学院海外知名学者"称号
8. 2009 日本文科省国立放射线医学综合研究所杰出研究奖
9. 2012 日本文科省国立放射线医学综合研究所優秀職員

研究生培养

1. 2006-2009 与中国科学院地球化学研究所合作培养博士生1名, 硕士生3名
2. 2009-present 与南京大学海岸海洋科学系合作培养博士生2名
3. 2009-present 与北京大学技术物理系合作培养博士生2名
4. 2013-present 与厦门大学沿岸海洋环境国家重点实验室合作培养博士生1名

List of Publications

Journal articles and book chapters

(*corresponding author)

2014

1. **J. Zheng***, K. Tagami, T. Aono, S. Uchida (2015): Release of Plutonium Isotopes into the Environment from the Fukushima Daiichi Nuclear Power Plant Accident. *Actinide Research Quarterly*, accepted.
2. W. Bu, Y. Ni, Q. Guo, **J. Zheng***, S. Uchida (2014): Pu isotopes in soils collected downwind from Lop Nor: regional fallout vs. global fallout. *Sci. Rep*. submitted.
3. W. Bu, **J. Zheng***, Q. J. Guo, T. Aono, S. Otosaka, K. Tagami, S. Uchida (2014): Temporal distribution of plutonium isotopes in marine sediments off Fukushima after the Fukushima Daiichi Nuclear Power Plant accident. *J. Radioanal. Nucl. Chem*. doi:10.1007/s10967-014-3437-y, 2014.
4. W. T. Bu, M. Fukuda, **J. Zheng***, T. Aono, T. Ishimaru, J. Kanda, G. S. Yang, K. Tagami, S. Uchida, Q. J. Guo and M. Yamada (2014): Release of Pu isotopes from the Fukushima Daiichi Nuclear Power Plant accident to the marine environment was negligible. *Environ. Sci. Technol*. 48, 9070-9078.
5. **J. Zheng***, W. T. Bu, K. Tagami, Y. Shikamori, K. Nakano, S. Uchida N. Ishii (2014): Determination of ^{135}Cs and ^{135}Cs/^{137}Cs isotopic ratio in environmental samples by combining ammonium molybdophosphate (AMP) selective Cs adsorption and ion-exchange chromatographic separation to triple quadrupole inductively coupled plasma mass spectrometry. *Anal. Chem*., 86, 7103-7110.
6. G. S. Yang, **J. Zheng**, K. Tagami, S. Uchida (2014): Soil-to-crop transfer factors of tellurium. *Chemosphere*, 111, 554-559.
7. W. T. Bu, **J. Zheng***, Q. J. Guo and S. Uchida (2014): Vertical distribution and migration of global-fallout Pu in soil in southwestern China. *J. Environ. Radioact.* 136, 174-180.
8. **J. Zheng***, K. Tagami, W. T. Bu, S. Uchida, Y. Watanabe, Y. Kubota, S. Fuma and S. Ihara (2014): ^{135}Cs/^{137}Cs isotopic ratio as a new tracer of radiocesium released from the Fukushima nuclear accident. *Environ. Sci. Technol*. 48, 5433-5438.
9. H. Q. Liao, W. T. Bu, **J. Zheng***, F. C. Wu, M. Yamada (2014): Vertical distributions of radionuclides ($^{239+240}$Pu, ^{240}Pu/^{239}Pu, ^{137}Cs, ^{210}Pb) in sediment cores of Lake Bosten in northwestern China. *Environ. Sci. Technol.* 48, 3840-3846.
10. W. Bu, **J. Zheng***, Q. J. Guo, T. Aono, K. Tagami, S. Uchida, H. Tazoe, M. Yamada (2014): Ultra-trace determination of plutonium in small volume seawater by sector-field inductively coupled plasma mass spectrometry with application to Fukushima seawater samples. *J. Chromatogr. A*, 1337, 171-178.
11. J. W. Wu, **J. Zheng***, M. H. Dai, C. A. Huh, W. F. Chen, K. Tagami, S. Uchida (2014): Isotopic composition and distribution of plutonium in northern South China Sea sediments revealed continuous release and transport of Pu from the Marshall Islands. *Environ. Sci. Technol.* 48, 3136-3144.
12. W. Bu, **J. Zheng***, Q. J. Guo, T. Aono, H. Tazoe, K. Tagami, S. Uchida, M. Yamada (2014): A method of measurement of ^{239}Pu, ^{240}Pu, ^{241}Pu in high U content marine sediments by sector field ICP-MS and its application to Fukushima sediment samples. *Environ. Sci. Technol.* 48, 534-541. http://dx.doi.org/10.1021/es403500e

13. W. Bu, **J. Zheng***, Q. J. Guo, K. Tagami, S. Uchida (2014): Distribution of plutonium isotopes in marine sediments off Japan before and after the Fukushima Daiichi Nuclear Power Plant accident: a review. Chapter 9, in *Radiation Monitoring and Dose Estimation of the Fukushima Nuclear Accident*. S. Takahashi (Ed.), *Springer,* 2014. ISBN 978-4-431-54582-8. Pp. 91-101.

2013

14. **J. Zheng***, K. Tagami, S. Takeda, W. T. Bu (2013): The key role of atomic spectrometry in radiation protection. Critical review. *J. Anal. At. Spectrom*. 28, 1676-1699. Doi:10.1039/C3JA50217A.
15. **J. Zheng***, K. Tagami, S. Uchida (2013): Release of plutonium isotopes into the environment from the Fukushima daiichi nuclear power plant accident: what is known and what needs to be known. Critical review, *Environ. Sci. Technol.* 47, 9584-9595.
16. G. S. Yang, **J. Zheng***, K. Tagami, S. Uchida (2013): Rapid and sensitive determination of tellurium in soil and plant samples by sector-field inductively coupled plasma mass spectrometry. *Talanta* 116, 181-187.
17. H. Takata, T. Aono, **J. Zheng**, K. Tagami, J. Shirasaka, S. Uchida (2013): A sensitive and simple analytical method for the determination of Cs in estuarine and coastal waters. *Anal. Method*. 5, 2558-2564.
18. K. Tagami, S. Uchida, N. Ishii, **J. Zheng** (2013): Estimation of Tellurium-132 distribution in the eastern part of Fukushima prefecture at the early stage of Fukushima daiichi nuclear power plant accident. *Environ. Sci. Technol*. 47, 5007-5012.
19. Z. Y. Liu, **J. Zheng***, S. M. Pan, J. H. Gao (2013): Anthropogenic plutonium in the North Jiangsu tidal flats of the Yellow Sea in China. *Environ. Monit*. *Assess.* 185, 6539-6551.
20. W. Bu, **J. Zheng***, T. Aono, K. Tagami, S. Uchida, J. Zhang, M. C. Honda, M. Yamada (2013): Vertical distribution of plutonium isotopes in marine sediments off the Fukushima coast following the Fukushima daiichi nuclear power plant accident. *Biogeosciences*, 10, 2497-2511. doi:10.5194/bg-10-2497-2013, 2013
21. W. Bu, **J. Zheng***, T. Aono, K. Tagami, S. Uchida, J. Zhang, M. C. Honda, M. Yamada (2013): Determination of plutonium isotopes in marine sediments off the Fukushima coast following the Fukushima daiichi nuclear power plant accident. *Biogeosciences Discussions*, 10, 643-680.

2012

22. K. Tagami, S. Uchida, N. Ishii, **J. Zheng** (2012): Estimation of Tellurium-132 distribution in Fukushima prefecture. In *Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi nuclear power stations*. Edited by S. Takahashi, H. Yamana, T. Takahashi, K. Takamiya, S. Fukutani, N. Sato and M. Nakatani. Research Reactor Institute, Kyoto University, Japan. pp. 120-123, ISSN 978-4-9906815-0-0.
23. **J. Zheng***, K. Tagami, S. Uchida (2012): Release of plutonium isotopes from the Fukushima Daiichi nuclear power plant accident. In *Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi nuclear power stations*. Edited by S. Takahashi, H. Yamana, T. Takahashi, K. Takamiya, S. Fukutani, N. Sato and M. Nakatani. Research Reactor Institute, Kyoto University, Japan. pp. 184-189, ISSN 978-4-9906815-0-0.

24. W. Bu, **J. Zheng***, T. Aono, K. Tagami, S. Uchida, J. Zhang, Q. J. Guo, M. Yamada (2012): Investigating plutonium contamination in marine sediments off Fukushima following the Fukushima daiichi nuclear power plant accident. In *Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi nuclear power stations*. Edited by S. Takahashi, H. Yamana, T. Takahashi, K. Takamiya, S. Fukutani, N. Sato and M. Nakatani. Research Reactor Institute, Kyoto University, Japan. pp. 141-145, ISSN 978-4-9906815-0-0.
25. G. S. Yang, **J. Zheng***, K. Tagami, S. Uchida (2012): Direct determination of tellurium in soil and plant samples by sector-field inductively coupled plasma mass spectrometry for the study of soil-plant transfer of radioactive tellurium following the Fukushima daiichi nuclear power plant accident. In *Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi nuclear power stations*. Edited by S. Takahashi, H. Yamana, T. Takahashi, K. Takamiya, S. Fukutani, N. Sato and M. Nakatani. Research Reactor Institute, Kyoto University, Japan. pp. 174-178, ISSN 978-4-9906815-0-0.
26. H. Takata, **J. Zheng**, K. Tagami, T. Aono, K. Fujita, S. Yamazaki, S. Uchida (2013): Distribution coefficients (K_ds) of stable iodine in estuarine and coastal regions, Japan, and its relationship to salinity and organic carbon in sediments. *Environ. Monit. Assess.* 185, 3645-3658.
27. S. Hasegawa, Y. Morokoshi, H. Kanda, S. Tsukamoto, **J. Zheng**, Atsushi B. Tsuji, I. Aoki, T. Furukawa, S. Kakinuma, Y. Shimada, T. Saga (2012): H-ferritin overexpression promoters radiation-induced leukemia/lymphoma in mice. *Carcinogenesis* 33, 2269-2275.
28. **J. Zheng***, M. Yamada (2012): Determination of plutonium isotopes in seawater reference materials using isotope-dilution ICP-MS. *Appl. Radiat. Isot.* 70, 1944-1949.
29. **J. Zheng**,* T. Aono, S. Uchida, J. Zhang, M. C. Honda (2012): Distribution of Pu isotopes in marine sediments in the Pacific 30 km off Fukushima after the Fukushima Daiichi nuclear power plant accident. *Geochem. J.* 46, 361-369.
30. M. Yamada, **J. Zheng** (2012): $^{240}Pu/^{239}Pu$ atom ratios in water columns of the equatorial Pacific. *Sci. Total Environ*. 430, 20-27.
31. **J. Zheng***, K. Tagami, Y. Watanabe, S. Uchida, T. Aono, N. Ishii, S. Yoshida, Y. Kubota, S. Fuma, S. Ihara (2012): Isotopic evidence of plutonium release into the environment from the Fukushima DNPP accident. *Sci. Rep. (Nature)* 2, 304; Doi:10.1038/srep00304 (2012). *Sci. Rep. Top contents ranking: No. 3 (2012, March); Nature Asia-Pacific, highlighted paper. Reported and commented by Nature News Blog.*
32. **J. Zheng**,* K. Tagami, S. Uchida (2012): Rapid analysis of U isotopes in vegetables using ICP-MS: application to the emergency U monitoring after the nuclear accident at TEPCO's Fukushima Dai-ichi nuclear power station. *J. Radioanal. Nucl. Chem*. 292, 171-175.
33. **J. Zheng**,* H. Takata, K. Tagami, T. Aono, K. Fujita, S. Uchida (2012): Rapid determination of iodine in Japanese coastal seawater using SF-ICP-MS. *Microchem. J*. 100, 42-47.

2011

34. Z. Y. Liu, **J. Zheng**,* S. M. Pan, W. Dong, M. Yamada, T. Aono, Q. J. Guo (2011): Pu and ^{137}Cs in Yangtze River estuary sediments: distribution and source identification. *Environ. Sci. Technol.* 45, 1805-1811.
35. F. C. Wu, **J. Zheng***, H. Q. Liao, M. Yamada, G. J. Wan (2011): Anomalous plutonium isotopic ratios in sediments of Lake Qinghai from the Qinghai-Tibetan Plateau, China. *Environ. Sci. Technol*. 45, 9188-9194.
36. **J. Zheng**,* M. Yamada, S. Yoshida (2011): Sensitive iodine speciation in seawater by multi-mode size exclusion chromatography with sector-field ICP-MS. *J. Anal. At. Spectrom.*, 26, 1790-1795.
37. H. Takata, **J. Zheng**, T. Aono, K. Tagami, S. Uchida (2011): Determination of ^{232}Th in seawater by ICP-MS after simple and rapid separation and preconcentration using a chelating resin. *Talanta*, 85, 1772-1777.
38. M. Ketterer, **J. Zheng**, M. Yamada (2011): Applications of Transuranic as tracers and chronometers in the environment. Chapter 20, in *Handbook of Environmental Isotope Geochemistry* (Ed. M. Baskaran), Springer-Verlag. Pp.395-418, September, 2011.
39. **J. Zheng**,* Y. S. Zhang, M. Yamada, F. C. Wu, Y. Igarashi, K. Hirose (2011): Determination of Pu isotopes and Am-241 in a reference fallout material using SF-ICP-MS. *Radiat. Prot. Dosim.*146 (1-3) 307-310.
40. F. C. Wu, **J. Zheng**,* H. Q. Liao, M. Yamada (2011): Distribution of artificial radionuclides in lacustrine sediments in China. *Radiat. Prot. Dosim.* 146 (1-3), 291-294.
41. M. Yamada, **J. Zheng** (2011): Determination of ^{240}Pu/^{239}Pu atom ratio in surface seawaters from the East China Sea. *Radiat. Prot. Dosim.* 146 (1-3), 311-313.
42. T. Nakanishi, **J. Zheng**, T. Aono, M. Yamada and M. Kusakabe (2011): Vertical distributions of ^{99}Tc and ^{99}Tc/^{137}Cs activity ratio in the coastal water off Aomori, Japan. *J. Environ. Radioact*. 102, 774-779.
43. G. J. Wan, F. C. Wu, **J. Zheng**, E. Y. wan, H. Q. Liao, M. Yamada, C. S. Wang (2011): $^{239+240}$Pu as a dating marker in lake sediments: an example from Lake Chenghai, China. *Acta Scientiae Circumstantiae,* 31 (5), 979-986. (in Chinese)
44. Z. Y. Liu, **J. Zheng**, M. Yamada, S. M. Pan, H. Kawahata (2011): Plutonium characteristics in sediments of Hiroshima Bay in Seto Inland Sea in Japan. *J. Radioanal. Nucl. Chem.*, 288, 911-917.
45. M. K. Pham, M. Betti, P. P. Povinec, M. Benmansour, J. Drefvelin, C. Engeler, J. M. Flemal, C. Gasco, Guillevic, Gurriaran, M. Groening, J. D. Happel, J. Herrmann, C. Olchmann, S. Klemola, M. Kloster, G. Kanisch, K. Leonard, S. Long, S. Nielsen, J. S. Oh, P. U. Rieth, L. Ostergren, H. Pettersson, N. Pinhao, L. Pujol, K. Sato, J. Schikowski, Z. Varga, V. P. Vartti, **J. Zheng** (2011): A reference material for radionuclides in water sample from Irish Sea (IAEA-443). *J. Radioanal. Nucl. Chem.*, 288, 603-611.
46. W. Dong, **J. Zheng**,* M. Yamada and Q. J. Guo (2011): Distribution of plutonium isotopes in sediments of Melanesian Basin, central Pacific. *J. Radioanal. Nucl. Chem.* 287, 943-948.
47. L. B. Xu, F. C. Wu, **J. Zheng**, Q. L. Xie, H. X. Li, H. Q. Liao, X. L. Zhao, F. Guo (2011): Sediment records of Sb and Pb stable isotopic ratios in Lake Qinghai. *Microchem. J*, 97, 25-29.

2010

48. M. Yamada, **J. Zheng** (2010): Temporal variability of $^{240}Pu/^{239}Pu$ atom ratio and $^{239+240}Pu$ inventory in water columns of the Japan Sea. *Sci. Total Environ.* 408, 5951-5957.
49. W. Dong, **J. Zheng**,* Q. J. Guo, M. Yamada and S. M. Pan (2010): Characterization of plutonium in the deep-sea sediments of the Sulu Sea and the South China Sea. *J. Environ. Radioact*. 101, 622-629.
50. F. C. Wu, **J. Zheng**,* H. Q. Liao and M. Yamada (2010): Vertical distributions of plutonium and ^{137}Cs in lacustrine sediments in northwestern China: Quantifying sediment accumulation rates and source identifications. *Environ. Sci. & Technol.* 44, 2911-2917.
51. Y. S. Zhang, **J. Zheng**,* M. Yamada, F. C. Wu, Y. Igarashi, and K. Hirose (2010): Characterization of Pu concentration and its isotopic composition in a reference fallout material. *Sci. Total Environ*. 408, 1139-1144.
52. 吉田聡、石川徹夫、保田浩志、**鄭　建**、久保田善久、府馬正一 (2010): 放射線安全・規制ニーズに対応する環境放射線影響研究。*Radiol. Sci.* 53(5) 35-38. (in Japanese)

2009

53. L. Zeng, F. C. Wu, G. J. Wang, **J. Zheng** (2009): The distribution characteristic and environmental significance of ^{137}Cs deposit profile in Chinese lacuatrine sediment. *J. Lake Sci.* 21 (1) 1-9. (in Chinese).
54. R. Y. Zhang, F. C. Wu, Z. Q. He, **J. Zheng**, B. A. Song and L. H. Jin (2009): Phosphorus composition in sediments seven different trophic lakes, China: A ^{31}P NMR study. *J. Environ. Quality* 38, 353-359.
55. **J. Zheng**,* M. Yamada, F. C. Wu and H. Q. Liao (2009): Characterization of Pu concentration and its isotopic composition in soils of Gansu in northwestern China. *J. Environ. Radioact*. 100, 71-75.
56. **J. Zheng**,* H. Hintelmann (2009): HPLC-ICP-MS for a comparative study on the extraction approaches for arsenic speciation in terrestrial plant, *Ceratophyllum demersum*. *J. Radioanal. Nucl. Chem.* 280, 171-179.

2008

57. **J. Zheng*** and M. Yamada (2008): Isotope dilution SF-ICP-MS combined with extraction chromatography for rapid determination of ^{241}Am in marine sediment samples: a case study in Sagami Bay, Japan. *J. Oceanogr.* 64, 541-550.
58. 日下部正志、中原元和、石井紀明、渡部輝久、山田政俊、青野辰雄、**鄭 建**、中西貴宏、桜井智史、帰山秀樹、大久保綾子(2008): Radionuclides in ocean: solution, particulate matter, and plankton-Outline of the study carried out in the waters off Aomori Prefecture. *Radiol. Sci.* 51 (6) 45-51. (in Japanese).
59. Y. C. Bai, F. C. Wu, C. Q. Liu, W. Li, J. Y. Guo, P. Q. Fu, B. S. Xing and **J. Zheng** (2008): Ultraviolet absorbance titration for determining stability constants of humic substances with Cu(II) and Hg(II). *Anal. Chim. Acta*, 616, 115-121.
60. F. C. Wu, **J. Zheng**, X. L. Pan, L. Wen, Q. J. Qiu, C. L. Mo, J. Zhu, B. J. Liu, S. X. Shao, J. Y. Guo (2008): Prospect on Biogeochemical Cycle and Environmental Effect of Antimony. *Advances in Earth Science*, 23(4), 350-356. (in Chinese).
61. H. Q. Liao, **J. Zheng**,* F. C. Wu, M. Yamada, M. G. Tan and J. M. Chen (2008): Determination of plutonium isotopes in freshwater lake sediments by sector-field ICP-MS after separation using ion-exchange chromatography. *Appl. Radiat. Isot.* 66, 1138-1145.

62. J. Chen, M. Tan, Y. Li, **J. Zheng**, Y. Zhang, Z. Shan, G. Zhang and Y. Li (2008): Characteristics of trace elements and lead isotope ratios in $PM_{2.5}$ from four sites in Shanghai. *J. Hazard. Mater*. 156, 36-43.
63. **J. Zheng**,* F. C. Wu, M. Yamada, H. Q. Liao, C. Q. Liu and G. J. Wan (2008): Global fallout Pu recorded in lacustrine sediments in Lake Hongfeng, SW China. *Environ. Pollut*. 152, 314-321.
64. A. Okubo, **J. Zheng**, M. Yamada, T. Aono, T. Nakanishi, H. Kaeriyama, M. Kusakabe (2008): Determination of plutonium isotopes in marine particle samples collected by the large volume in-situ filtration/concentration system. *J. Radioanal. Nucl. Chem.* 275, 291-297.
65. **J. Zheng**,* H. Q. Liao, F. C. Wu, M. Yamada, P. Q. Fu, C. Q. Liu and G. J. Wan (2008): Vertical distributions of $^{239+240}$Pu activity and ^{240}Pu/^{239}Pu atom ratio in sediment core of Lake Chenghai, SW China. *J. Radioanal. Nucl. Chem.* 275, 37-42.
66. M. Yamada and **J. Zheng** (2008): Determination of ^{240}Pu/^{239}Pu atom ratio in coastal surface seawaters from the western North Pacific Ocean and Japan Sea. *Appl. Radiat. Isot.* 66, 103-107.

2007

67. M. Yamada, **J. Zheng** and Z. L. Wang (2007): ^{240}Pu/^{239}Pu atom ratios in seawater from Sagami bay, western Northwest Pacific Ocean: sources and scavenging. *J. Environ. Radioact.* 98, 274-284.
68. W. Zhu, F. C. Wu, **J. Zheng** and C. Q. Liu (2007): The use of 3-(2-pyridyl)-5, 6-diphenyl-1, 2, 4-triazine as pre-column derivatizing reagent in HPLC determination for Fe(II) in natural samples. *Anal. Sci.* 23, 1291-1296.
69. V. N. Epov, R. Douglas Evans, **J. Zheng**, O.F. X. Donard, and M. Yamada (2007): Rapid fingerprinting of ^{239}Pu and ^{240}Pu in environmental samples with high U level using on-line ion chromatography with highly sensitive quadrupole ICP-MS detection. *J. Anal. At. Spectrom.* 22, 1131-1137.
70. M. Yamada and **J. Zheng** (2007): ^{210}Pb and ^{230}Th in settling particles in the western Northwest Pacific Ocean: Particle flux and scavenging. *Continental Shelf Res.* 27, 1629-1642.
71. **J. Zheng**,* M. Yamada (2007): Precise determination of Pu isotopes in a seawater reference material using ID-SF-ICP-MS combined with two-stage anion-exchange chromatography. *Anal. Sci*. 23, 611-615.

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72. M. Yamada, Z. L. Wang and **J. Zheng** (2006): The extremely high ^{137}Cs inventory in the Sulu Sea: A possible mechanism. *J. Environ. Radioact*. 90, 163-171.
73. **J. Zheng**,* M. Yamada, T. Aono and M. Kusakabe (2006): Vertical distribution of uranium concentrations and ^{235}U/^{238}U atom ratios in coastal water off Aomori, Japan: a survey prior to the operation of a nuclear fuel reprocessing facility. *J. Radioanal. Nucl. Chem.* 270 (3), 669-675.
74. M. Yamada, **J. Zheng** and Z. L. Wang (2006): ^{137}Cs, $^{239+240}$Pu and ^{240}Pu/^{239}Pu atom ratios in the surface waters of the western North Pacific Ocean, eastern Indian Ocean and their adjacent seas. *Sci. Total Environ*. 366, 242-252.
75. **J. Zheng*** and M. Yamada (2006): Plutonium isotopes in settling particles: transport and scavenging of Pu in the western Northwest Pacific. *Environ. Sci. Technol.* 40, 4103-4108.

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77. **J. Zheng*** and M. Yamada (2006): Determination of U isotope ratios in sediments using ICP-QMS after sample cleanup with anion-exchange and extraction chromatography. *Talanta* 68, 932-939.
78. **J. Zheng*** and M. Yamada (2006): Determination of Pu isotopes in sediment cores in the Sea of Okhotsk and the NW Pacific by sector field ICP-MS. *J. Radioanal. Nucl. Chem.* 267 (1), 73-83.

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Oral presentation

1. J. Zheng, K. Tagami, T. Aono, S. Uchida (2014): Release of Pu isotopes into the environment from the Fukushima Daiichi Nuclear Power Plant accident: distribution and source identification. Plutonium Futures The Science 2014, September 7-12, Las Vegas, Nevada, USA (invited)
2. J. Zheng (2014): Detection and quantification of actinide and fission product isotopes released from the Fukushima Nuclear Accident. WE-Heraeus Physics School on Ionizing Radiation and Protection of Man, The Physikzentrum Bad Honnef/Germany, 10 – 22 August 2014 (90 min invited talk).
3. J. Zheng (2014): Release of Pu and Cs isotopes from the Fukushima nuclear accident: source identification and environmental impact. Dalian University of Technology, China, April 28, 2014. (Invited)
4. J. Zheng (2014): ICP-MS for source identification of radionuclides released from the Fukushima Nuclear accident. Analytix-2014, Dalian, China, April 27, 2014. (Invited)
5. J. Zheng (2014): Determination of radiocesium isotopes by ICP-MS: importance of chemical separation techniques. 10th Eichrom Seminar, Tokyo, April 15, 2014.
6. J. Zheng, W. T. Bu, G. S. Yang, K. Tagami, S. Uchida (2014): Determination of Cs and Pu isotopes using ICP-MS for source identification and long-term environmental behavior studies after the Fukushima nuclear accident. International Conference on Radioecology & Environmental Radioactivity. 7-12 Sept. 2014, Barcelona, Spain.
7. J. Zheng (2014): Tracing the Fukushima nuclear accident released Pu and radiocesium isotopes in the environment: the role of isotope ratio analysis. The 15th KEK Symposium on Environmental Radioactivity. Tsukuba, March 6, 2014. (invited)
8. J. Zheng (2014): Release of Pu isotopes into the environment from the Fukushima nuclear accident. Workshop on the chemistry of actinides and fission products. Kyoto University, Nuclear Reactor Research Institute, Kumatori, March 12, 2014. (Invited).
9. 鄭 建 (2013): Analytical potential of SF-ICP-MS and reaction cell ICP-MS for the determination of radioactive cesium isotopes. : プラズマ分光分析研究会セミナー、東京、2013年10月4日。(invited).
10. J. Zheng, W. T. Bu, T. Aono, Q. J. Guo, K. Tagami, S. Uchida, M. Yamada (2013): Source identification of Pu in marine sediments after the Fukushima accident. Annual meetings of Geochemical Society of Japan, Sept. 11-13, 2013, Tsukuba Univ., Japan.
11. J. Zheng, K. Tagami, S. Uchida (2013): Accurate determination of Pu isotope ratios in environmental samples for the identification of release sources of Pu in the Fukushima Daiichi Nuclear Power Plant accident. 7th International Symposium on

radiation Safety and Detection Technology (ISORD-7), July 15-18, 2013, Sanya, China.

12. J. Zheng, W. T. Bu, T. Aono, K. Tagami, S. Uchida, Q. J. Guo (2013): Investigation on plutonium contamination in the marine environment following the Fukushima DNPP accident. '7th International Conference on marine Pollution and Ecotoxicology. Hong Kong, June 17-21, 2013.
13. J. Zheng, K. Tagami, S. Uchida, T. Aono, W. T. Bu (2012): Accurate plutonium isotope analysis using SF-ICP-MS provided evidence for the release of plutonium from the Fukushima Daiichi nuclear power plant accident. The 2013 European Winter Conference on Plasma Spectrochemistry. Krakow, Poland, February 10-15, 2013. (invited)
14. J. Zheng, K. Tagami, S. Uchida (2012): Release of plutonium isotopes from the Fukushima Daiichi nuclear power plant accident. International Symposium on ***Environmental monitoring and dose estimation of residents after accident of TEPCO's Fukushima Daiichi nuclear power stations*.** Kyoto, 2012/12/14. Japan. (invited)
15. J. Zheng (2012): Application of ICP-MS for the determination of trace level artificial radionuclides in environmental samples. Institute of Chemistry, Kyoto University, Japan. 2012/12/13. (invited)
16. J. Zheng, K. Tagami, S. Uchida (2012): ICP-MS analysis of Pu isotopes in environmental samples: what can it tell us about the Fukushima Daiichi Nuclear Power Plant accident? 2012 Asia-Pacific Winter Conference (APWC), Jeju Island, South Korea, August 26-29, 2012.
17. J. Zheng, T. Aono, S. Uchida, J. Zhang, M. C. Honda (2012): Plutonium isotopes in marine sediments after the Fukushima DNPP accident. 2012 ASLO Aquatic Sciences Meeting: Voyages of Discovery. Lake Biwa, Otsu, Shiga, Japan, July 8-13, 2012.
18. 鄭 建、環境放射能測定法についてーＩＣＰ－ＭＳを用いた場合ー（2012）：プラズマ分光分析研究会2012筑波セミナー、筑波、2012年7月５日。(invited).
19. J. Zheng, T. Aono, S. Uchida, J. Zhang, M. Honda (2012): Characterization and distribution of Pu isotopes in marine sediments 30 km off Fukushima after the Fukushima DNPP accident. 2012 Spring Conference of the Oceanographic Society of Japan, Tsukuba, March 26-30, 2012.
20. J. Zheng, K. Tagami, Y. Watanabe, S. Uchida, T. Aono, N. Ishii, S. Yoshida, Y. Kubota, S. Fuma, S. Ihara (2012): Isotopic composition of plutonium released into the environment from the Fukushima Daiichi nuclear power plant accident. The 13th Environmental Radioactivity Symposium, Tsukuba, Japan, 27-29 February, 2012.
21. J. Zheng, M. Yamada (2011): Precise determination of Pu isotopes in a newly certified seawater reference material, IAEA-443. The 12th Environmental Radioactivity Symposium, Tsukuba, Japan, 8-10 March, 2011.
22. J. Zheng, M. Yamada, F.C Wu, S. M. Pan (2010): Application of sector-field ICP-MS in radioecological and environmental radioactivity studies. The 4th Asia-Pacific winter conference on plasma spectrochemistry. Chengdu, China, November 26-30, 2010. (invited Keynote speaker)
23. J. Zheng, M. Yamada, S. M. Pan (2010): Marine environmental geochemistry of Pu isotopes in the NW Pacific margin. The Cross-Strait Joint conference on Environment and Energy. Shanghai, China, July 12-14, 2010. (invited speaker).

24. J. Zheng, M. Yamada, S.M. Pan (2010): Sources, distributions and transport processes of artificial radioactive elements in NW Pacific margin. 2010 Western Pacific Geophysics Union Meeting, Taipei, China, June 22-25, 2010. (Invited speaker).
25. J. Zheng, F. C. Wu, H. Q. Liao, M. Yamada (2010): Distribution of artificial radionuclides in lacustrine sediments in China. AOCRP-3 conference, Tokyo, Japan, May 24-28. (Invited speaker).
26. J. Zheng (2009): Sb speciation in the environment. Natural organic matter workshop, Beijing, China, August 8, 2009. (Invited speaker).
27. J. Zheng, M. Yamada, S. M. Pan, W. Dong, Q. J. Guo, L. Zeng, Y. S. Zhang, F. C. Wu (2009): Isotope dilution SF-ICP-MS for the determination of ^{241}Am and Pu isotopes in low-level environmental samples. International Workshop on Low-level Measurement of Radionuclides and Its Application to Earth and Environmental Sciences. Kanazawa, Japan, November 4-6, 2009.
28. J. Zheng, M. Yamada, T. Aono, S. Yoshida, K. Tagami, S. Uchida (2009): ICP-MS in radioecological studies. ISORD-5, Kitakyushu, Japan, July 15-17, 2009.
29. J. Zheng, M. Yamada (2009): Sources, distributions and transport processes of Pu isotopes in the NW Pacific margin. Goldschmidt 2009, Davos, Switzerland, June 21-26, 2009.
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31. J. Zheng, M. Yamada, (2008): Pu isotope ratio analysis by sector-field ICP-MS reveals contamination sources and transport mechanism in the western northwest Pacific. 2008 Third Asia-Pacific winter conference on plasma spectrochemistry. Tsukuba, Japan, November 16-21, 2008.
32. J. Zheng, M. Yamada, (2008): Rapid determination of short-lived radionuclides, ^{241}Pu and ^{241}Am in environmental samples using SF-ICP-MS. The 52th Radiochemistry Symposium. Hiroshima, Japan, Sept. 25-27, 2008.
33. J J. Zheng (2008): Antimony speciation in the environment. Symposium on the environmental geochemistry of antimony, Chinese Research Academy of Environmental Sciences, Beijing, Sept. 11, 2008.
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35. J. Zheng, M. Yamada (2007): Seasonal variation of Pu flux and ^{240}Pu/^{239}Pu atom ratio in the western northwest Pacific. The 8th Environmental Radioactivity Symposium, Tsukuba, Japan, 22-24 March, 2007.
36. J. Zheng and M. Yamada (2006): Development of highly sensitive analytical methods for radionuclides in marine environmental studies. 7th International Symposium on Environmental Geochemistry, Beijing, China, 24-27, Sept. 2006. (Invited keynote speaker).
37. J. Zheng and M. Yamada (2006): Research development for the analysis of Pu and U isotopes in the marine environment. Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai, China, Sept., 29, 2004 (invited).
38. J. Zheng and M. Yamada (2006): Plutonium isotopes in the NW Pacific: besides the global fallout. 2006 Western Pacific Geophysics Meeting, Beijing, China, 24-27 July, 2006.

39. J. Zheng and M. Yamada (2006): Distributions of Pu isotopes in sediments from the western North Pacific and its adjacent seas. Symposium on GEOTRACES Project. Tokyo University, Tokyo, Japan. Jan. 26-27, 2006.
40. J. Zheng, M. Yamada, T. Aono and M. Kusakabe (2005): Determination of U isotopes in marine environmental samples using ICP-MS. The 49th Radiochemistry Symposium. Kanazawa, Japan, Sept. 28-30, 2005. Abstract in J. Nucl. Radiochem. Sci., 6 (supplement), 53, 2005.
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42. J. Zheng and M. Yamada (2004): The distribution of plutonium in sediments in the marginal seas of the Pacific Ocean: a hypothesis for oceanic current transportation of Bikini close-in fallout Pu. The 51th Annual Meeting of the Geochemical Society of Japan, Shizuoka, Japan, Sept. 20, 2004.
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45. J. Zheng and M. Yamada (2004): Pu isotopes in sediments of the marginal seas of the NW Pacific Ocean. Goldschmidt 2004, Copenhagen, Denmark, June 5-11, 2004. Abstract in GEOCHIMICA ET COSMOCHIMICA ACTA 68 (11): A491-A491 Suppl. S JUN 2004
46. J. Zheng and M. Yamada (2004): Isotopic evidence for the sources of plutonium in the sediments collected from Sagami Bay, Japan. Japan Earth and Planetary Science Joint Meeting. Chiba, Japan, May 9-13, 2004.
47. J. Zheng and M. Yamada (2004): The isotopic signature of plutonium in sediments from the western North Pacific margin. International Workshop on Global Carbon Cycle and Related Mapping Based on Satellite Imagery and Climate Change. Tsukuba, Japan, Jan. 19-21, 2004.
48. J. Zheng (2003): Hyphenated techniques for the speciation of Se, Sb and As in environmental studies. Dept. of Chemistry, Trent University, Canada, Feb. 11, 2003.
49. J. Zheng (2002): Speciation of Cr in the leaching test solutions of plasma treated slags. The 5th Symposium on the treatment of hazardous waste & reuse by ultra-high temperature plasma. Chuo University, Tokyo, Japan, March 6, 2002.
50. J. Zheng (2001): ICP-MS: Trends in environmental analytical chemistry. Shanghai Institute of Nuclear Research, The Chinese Academy of Sciences, Shanghai, China, Aug. 17, 2001. (invited).
51. J. Zheng (2001): Analytical strategy for the speciation of Sb and Cr with emphasis on the preservation of elemental species. International Congress on Analytical Sciences 2001 (ICAS 2001), Tokyo, Japan, Aug. 6-10, 2001.
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