

Name: Tadafumi KOYAMA
Title: Doctor of Engineering
Country: Japan
Position: Associate Vice President
Institution: Central Research Institute of Electric Power Industry (CRIEPI)



1. Education and Degrees

1988 Finished graduate school of nuclear engineering of Tokyo University.
1988 Awarded doctor degree from University of Tokyo.

2. Career

1988-2011 Researcher of CRIEPI in charge of Advanced Fuel Cycle technology development
1990-1992 Visiting Researcher at Argonne National Laboratory (USA)
1998-2000 Visiting Researcher at JRC-ITU (Germany)
2002-2005 Visiting Researcher at Japan Nuclear Fuel Cycle (Tokai, Japan)
2012- Deputy-associate / Associate Vice President of CRIEPI in charge of Fukushima Daiichi remediation studies

3. Main Publications

<Books>

- [1] T.Koyama & M. Iizuka, "Chapter 18 Pyrochemical fuel cycle technologies for processing of spent nuclear fuels"(p.457-513), R. Taylor edited, "Reprocessing and recycling of spent nuclear fuel", Woodhead Publishing, April 2015. (ISBN 978-1-78242-212-9)
- [2] T. Koyama, "Chapter 10 Nuclear Engineering for Pyrochemical Treatment of Spent Nuclear Fuel"(p. 269-310), K.L. Nash & G. J. Lumetta edited, "Advanced Separation Techniques for Nuclear Fuel Reprocessing and Radioactive Waste Treatment", Woodhead Publishing, March 2011. (ISBN 978-1-84569-501-9)

<Journals or Proceedings>

- [1] T. Koyama, T.R. Johnson, and D.F. Fischer, "Distribution of Actinides in Molten Chloride Salt / Cadmium Metal Systems", *J. Alloys and Compounds*, V189(1), 37-44(1992).
- [2] T. Koyama, M. Iizuka, Y. Shoji, R. Fujita, H. Tanaka, T. Kobayashi, M. Tokiwai, "An Experimental Study of Molten Salt Electrorefining of Uranium Using Solid Iron Cathode and Liquid Cadmium Cathode for Development of Pyrometallurgical Reprocessing", *J. Nuclear Science and Technology*, V34(4), 384-393(1997).
- [3] T. Koyama, K. Kinoshita, T. Inoue, R. Malmbeck, J-P. Glatz, L. Koch, "Study of electrorefining of U-Pu-Zr alloy fuel" *J. Nuclear Science and Technology* Supplement 3, 765-768(2002).
- [4] T. Koyama, T. Hijikata, T. Usami, S. Kitawaki, T. Shinozaki, M. Fukushima, "Integrated Experiments of Electrometallurgical Pyroprocessing using Plutonium Oxide", *J. Nuclear Science and Technology*, V44(3), 382-392(2007). Awarded "**AESJ Best Paper Award**"
- [5] T. Koyama, Y. Sakamura and M. Iizuka, "Pyrochemical Reprocessing of Used Nuclear Fuels," *ECS Transactions*, 33(7), 339-349 (2010).
- [6] T. Koyama, T. Tsukada, T. Hijikata, K. Uozumi, K. Inagaki, Y. Nauchi, K. Ishikawa, S. Ono, S. Suzuki, M. Denton, J. Raymond, R. Keenan and G. Bonhomme, "R&D Back-ups for Design and Operation of the Kurion Media System for Early Construction of the Contaminated Water Treatment System in Fukushima Daiichi Nuclear Power Station", GLOBA2011, Makuhari, Chiba, December, (2011).