

# FUJITA Reiko

## **Position/Department/Division/Institution/Organization**

Former President of Atomic Energy Society of Japan

## **Country**

Japan

## **Career history**

Doctor of Science, the Department of Electronic Chemistry, Graduate School of Science and Technology, Tokyo Institute of Technology in 1982

Joined Toshiba Corporation 1983, assigned to Nuclear Research & Technology Laboratory

Visiting Researcher, Argonne National Laboratory, USA (1988-1989)

Part-time lecturer at the Nuclear Reactor Laboratory, Tokyo Institute of Technology (1993-1998)

Developed a metallic fuel reprocessing for Fast Breeder Reactor and a transuranium elements recovery process from high-level radioactive waste (1988-2013)

Part-time lecturer at the Development of Creative Energy, Tokyo Institute of Technology (2009-2013)

Director of the Atomic Energy Society of Japan (AESJ) (2010-2015)

Advisor to Fukushima Prefecture on Remediation after the Fukushima Nuclear Accident (2011-2019)

Chief Fellow, Power & Industrial Systems Research & Development Center, Toshiba Corp. (2012-2014)

Expert member of “Partitioning/Transmutation Technology Working Group”, Nuclear Science and Technology Committee, Science and Technology Council, Ministry of Education, Culture, Sports, Science and Technology (MEXT) (2012-2015)

Member of the Working Group of the Japan Atomic Energy Agency, MEXT (2013-Present)

President of AESJ (2014-2015).

ImPACT Program Manager of “Reduction and Resource Recycling of High-level Radioactive Wastes through Nuclear Transmutation” (2014-2019).

Chair of Fukushima Support Project, AESJ (2019-Present)

## **Awards/Publications**

### Awards:

1. The 27 Atomic Energy Society of Japan, Technology Award RWM Award, “Development of Redox Decontamination System” in 1995
2. The 31 Atomic Energy Society of Japan, Paper Award, “Development of FR recovery technology in Self-Consistent Nuclear System” in 1999
3. The Molten Salt Award from Electrochemical Society, “Expansion of Molten Salt Technology to Nuclear Field-Focusing on Molten Salt Electrolysis” in 2000
4. Denki Kagaku Technology Award /Tanahashi Award, “Innovative technology for radioactive waste treatment of nuclear power plant and nuclear fuel cycle facilities using electrochemical methods” in 2007
5. Atomic Energy Society of Japan, Reprocessing and Recycle Subcommittee Award, ”Recycling Techniques for useful Substances Generated from Nuclear Fuel Cycle Facilities” in 2008
6. The Fast Reactors 09 Poster Award “Development of hybrid reprocessing technology” in 2009
7. The 21st Century Invention Prize for Radioactive Waste Processing Method (PAT. No.606892) in 2018

### Publications:

1. *Academic Trends*, “10 Years after the Fukushima Daiichi Nuclear Power Station Accident -Safety Regulations and Social Trust-“, *April 2022*
2. *Energy Forum*, “Effective Utilization of Plutonium and Reduction of Long-life Nuclides: New Possibility of Fast Reactor Cycle”, *March 2022*.
3. *Nuclear new trends*, Discussion “National significance of nuclear fuel cycle business”, *October 2020*
4. *Electrical review*, “Reduction and resource recycling of high-level radioactive wastes through nuclear transmutation-Summary of results- ”, *June 30, 2020 Summer special edition*
5. “Reduction and Resource Recycling of High-level Radioactive Wastes through Nuclear Transmutation -Overview and Current Progress-“, JPS Conf. Proc. 32, 010098 (2020) *Proceedings of 13th International Conference on Nucleus-Nucleus Collisions*
6. *Nikkei newspaper morning edition personal view*, “Technology for reduce radioactive wastes”, *October 3, 2019*

7. Japan Science and Technology Agency, ImPACT Fujita Program Public Achievement Report, “Reduction and Resource Recycling of High-Level Radioactive Wastes through Nuclear Transmutation-Proposal of New Options, For the Future-”, March 9, 2019
8. “Pyrochemical Process in Molten Salts for Spent Nuclear Fuel Reprocessing and Radioactive Waste Treatments”, *ECS Transactions*, **86**(14), pp311-320 (2018)
9. Journal of Tokyo Tech. Alumni Association, Kuramae Journal, “Development of future nuclear technology, logically and softly ” (2015)
10. 39<sup>th</sup> Kuramae Science and Technology Seminar, “What is the goal of nuclear research now?” ~80 years since the discovery of nuclear fission ~ (2015)
11. Sankei Shinbun 2014.6.30 07:51, the first female chairman of Atomic Energy Society of Japan (2014)

### **Areas of expertise**

Nuclear Industry

Nuclear Fuel Cycle

Radioactive treatment

Spent fuel reprocessing

Electrochemistry

Pyrochemical process in Molten Salt