

[T1F] Session F. Radiochemistry	
Date / Time	December 8 (Thu.), 2022 / 13:00-16:00
Place	S306 (3F)
Chairpersons	Dr. Wansik CHA (KAERI) Dr. Jeong Hoon PARK (KAERI)

T1F\_01

13:00-13:20

**Thermodynamic Studies of Pu(III) Hydrolysis in Aqueous Solutions**

Sangki Cho<sup>1,2</sup>, Hee-Kyung Kim<sup>1,2</sup>, Tae-Hyeong Kim<sup>1</sup>, Wansik Cha<sup>1</sup>, Hyejin Cho<sup>1</sup>, Hye-Ryun Cho<sup>1,2</sup>

<sup>1</sup>Korea Atomic Energy Research Institute, Republic of Korea, <sup>2</sup>University of Science and Technology, Republic of Korea

T1F\_02

13:20-13:40

**Current Status of Computational Study of Selective Absorption of Xe/Kr by MOF**

Jungho Ahn, Kunok Chang

Kyunghee University, Republic of Korea

T1F\_03

13:40-14:00

**Integration of First-Principles Computation and Machine Learning Models to Characterize Materials Properties of a Spent Nuclear Fuel and Remedy Radioactive Pollution**

Minjoon Hong, Hoje Chun, Byungchan Han

Yonsei University, Republic of Korea

T1F\_04

14:00-14:20

**The Automated Development of Atomwise and Non-Polarizable Force Fields for Molten Salts Using Genetic Algorithms**

Abdullah Bin Faheem<sup>1</sup>, Jong-Yun Kim<sup>2</sup>, Tae-Hyeong Kim<sup>2</sup>, Kyung-Koo Lee<sup>1</sup>

<sup>1</sup>Kunsan National University, Republic of Korea, <sup>2</sup>Korea Atomic Energy Research Institute, Republic of Korea

T1F\_05

14:20-14:40

**Applications of Radioisotopes for Bionanomaterials**

Jeong Hoon Park, Lee Jun Young, Pyeong Seok Choi, Min Goo Hur

Korea Atomic Energy Research Institute, Republic of Korea

T1F\_06

14:40-15:00

**Veterinary Use of Radiopharmaceuticals and Their Introduction to Korea**

Jae Cheong Lim

Korea Atomic Energy Research Institute, Republic of Korea

T1F\_07

15:00-15:20

**Production, Separation and Quality Control of Cobalt-57 in RFT-30 Cyclotron Facility**

**Jun Young Lee, JungHo Chae, Min Goo Hur, Jeong Hoon Park**

*Korea Atomic Energy Research Institute, Republic of Korea*

T1F\_08

15:20-15:40

**The Elemental Analysis of Packaged Meals Procured at Debre Tabor Market Places in Ethiopia by Using EDX**

**G. Mekuannent Alemye, A.D.P. Rao, P.V. Lakshmi Narayana**

*Andhra University, India*

T1F\_09

15:40-16:00

**Human Health Risk Assessment Through Marine Fish Consumption in Andhra Pradesh by the Heavy Metals Accumulation**

**Jayasree Aleti<sup>1</sup>, Srinivasulu A<sup>1</sup>, Tanushree panigrahi<sup>2</sup>, Jaganmoy Biswasi<sup>3</sup>, A.D.P. Rao<sup>1</sup>**

*<sup>1</sup>Andhra University, India, <sup>2</sup>Gitam University, India, <sup>3</sup>UGC-DAE Consortium for Scientific Research, India*