

[Track2] Fuel Material Design & Future Fuel Concepts

• Development of Hydration-Resistant Gadolinium-Based Burnable Absorbers by CeO₂ Addition

Hyeong Jin Kim(Korea Atomic Energy Research Institute/Kaist Advanced Institute of Science and Technology),Hyeongju Bae(Kaist Advanced Institute of Science and Technology),Ho Jin Ryu(Kaist Advanced Institute of Science and Technology)

• Interdiffusion behavior between UO₂ and Gd₂O₃ during the Sintering Process

Jae Ho Yang(Korea Atomic Energy Research Institute),Dong-Seok Kim(Korea Atomic Energy Research Institute),Ji-Hwan Lee(Korea Atomic Energy Research Institute),Ji-Hae Yoon(Korea Atomic Energy Research Institute),Hyeong Jin Kim(Korea Atomic Energy Research Institute),Yunsong Jung(Korea Atomic Energy Research Institute),Yeon-Soo Na(KepcoNF)

• Phase and Hydration Analysis of Zr-doped Gd₂O₃ Burnable Absorber

Hyeongju Bae(KAIST),Hyeong Jin Kim(KAIST),Ho Jin Ryu(KAIST)

• Development and Pre-Irradiation Evaluation of LEU+ and ATF Fuel Pellets

Dong Seok Kim(Korea Atomic Energy Research Institute),Yeon-Song Jung(Korea Atomic Energy Research Institute),Ji-Hwan Lee(Korea Atomic Energy Research Institute),Jae Ho Yang(Korea Atomic Energy Research Institute),Ji-Hae Yoon(Korea Atomic Energy Research Institute),Hyeong-Jin Kim(Korea Atomic Energy Research Institute),Dong-Joo Kim(Korea Atomic Energy Research Institute)

• Accident Tolerant Fuel UN doped with SiC: A Microstructural Analysis

Jhonathan Rosales(NASA - Marshall Space Flight Center),Nicholas Brooks(Amentum),Arne Croell(University of Alabama Huntsville),Logan Gibb(Amentum)