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## Special Issue on the International Congress on Advances in Nuclear Power Plants (ICAPP2023)

Since 2002, the International Congress on Advances in Nuclear Power Plants (ICAPP) has served as an excellent platform for nuclear experts and leaders to share and explore knowledge and insights on nuclear power technologies and their applications. In 2023, the ICAPP2023 was held on April 23–27, at Hwabaek International Convention Center, Gyeongju, Republic of Korea, with its theme of "Nuclear - Big Steps Forward to Secure Clean Future." The conference was composed of three plenary sessions such as (1) Nuclear Energy Policy for Carbon Neutral and Energy Security, (2) Breakthrough Technologies Making SMR More Competitive, and (3) Readiness of Advanced Reactor Licensing, and twelve technical tracks such as (1) Water Cooled Reactor Programs & Related Small Modular Reactor Developments, (2) Molten Salt Reactor, (3) High Temperature Gas Cooled Reactor, (4) Fast Reactors & Other Advanced Reactors, (5) Integrated Application of Nuclear Energy Systems, (6) Operation, Performance & Reliability Management, (7) Plant Safety Assessment, Regulatory &

Licensing Issues, (8) Reactor Physics Analysis, (9) Thermal Hydraulic Analysis Testing, (10) Fuel Cycle & Waste Management, (11) Materials & Structural Issues, and (12) Student Competition. There were around 600 participants and over 300 presentations. Among them, the outstanding papers were recommended by session chairs to be published as journal articles. Thirty nine papers are determined to be published in the Nuclear Engineering and Technology (NET) journal after formal reviews by experts. As the technical program committee chair of the ICAPP2023, I would like to express my sincere gratitude to the authors and reviewers of the papers for their great contribution to this special issue.

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