

Forewords

We are pleased to publish this Special Issue of **GLOBAL2024** International Conference, which was held from October 6 to 10, 2024, at Iino Hall in Tokyo, Japan.

Innovative nuclear energy systems and fuel cycles are key technologies for realizing a sustainable world amidst the current global energy supply situation and climate change. The conference served as a forum for discussing these critical technologies from a global perspective, with the slogan "**Realizing a Sustainable World with Innovative Nuclear Energy Systems and Fuel Cycles.**" The event was a great success, bringing together over 500 participants from 23 countries and featuring over 300 oral and poster presentations.

GLOBAL2024 was organized by the Reprocessing & Recycling Division of the Atomic Energy Society of Japan. We would like to express our sincere gratitude to all the organizations that made this conference possible through their sponsorship, support, and cooperation.

- **Sponsored by:** Atomic Energy Society Japan, Japan Atomic Energy Agency
- **Supported by:** Agency for Natural Resources and Energy, Embassy of France in Japan, Embassy of the United States of America
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The selected papers, among those presented at the conference, are now published in this special issue. We hope that this special issue shares a new stage of innovative nuclear energy systems and fuel cycles for a carbon-neutral society with all of you.

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Special Issue

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