

# Preface

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## TAKANASHI Koki

Director General,  
Advanced Science Research Center



Dear Colleagues,

We are pleased to present Annual Report of ASRC 2022, which summarizes the highlights of the research achievements of 7 research groups in the Advanced Science Research Center (ASRC) throughout FY2022.

The ASRC was established in April of 1993 with the aims of solving the problems of nuclear research and development by going back to the origins of principles and phenomena, and of advancing research that leads the development of not only nuclear energy but also other related fields through collaboration with basic sciences. For nearly 30 years, as a part of the Japan Atomic Energy Agency (JAEA), the ASRC has made a significant contribution to developing new ideas and fields of science related to atomic energy with two major subjects: advanced actinide nuclear science and advanced nuclear materials science.

The COVID-19 pandemic that broke out in 2020 has had a large influence on our research activities, in particular, international collaborations and workshops that have normally been conducted through the Reimei research projects. In the meantime, however, various on-line opportunities have brought us a new digitalized research style. Now the situation has almost been recovered, we are going to a further advanced direction to enhance the research activities with the synergy between on-site and on-line collaborations.

I hope that this edition of Annual Report will enable you to better understand our recent research activities, and you will see that the researchers of the ASRC have conducted high-quality studies in spite of the present restricted conditions. On behalf of the ASRC, I appreciate your continued support and welcome any suggestions.