

Preface

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The FY2017 is the third year of the mid-range 7-year plan of the Advanced Science Research Center (ASRC). We have started the plan with six research groups in two major subject fields, “Advanced actinides science” and “Advanced materials science”. The Center, as a part of the Japan Atomic Energy Agency (JAEA), assumes responsibility to develop new fields of science making full use of facilities and experiences of JAEA. In addition, the Center promotes the Reimei Research Program, which aims to support international research collaborations and to establish an international Center of Excellence (COE) in the field of atomic-energy related basic sciences.

This book summarizes the highlights of the research achievements of each group throughout FY2017. One sees that many high quality reseaches in various fields in fundamental and applied sciences are reported. On behalf of ASRC, I would like to express my sincere appreciation for the generous support and collaborations, which will help us bring success to the project.