

Accelerator Applications Research Division RI Application Research Group

1. Abstract

RI Application Research Group promotes industrial applications of radioisotopes (RIs) and ion beams at RIKEN RI Beam Factory (RIBF). Nuclear Chemistry Research Team develops production technologies of useful RIs for application studies in nuclear and radiochemistry. The team also develops technologies of mass spectrometry for trace-element and isotope analyses and apply them to the research fields such as cosmochemistry, environmental science, archaeology, and so on. Industrial Application Research Team promotes industrial applications of the accelerator facility and its related technologies.

2. Major Research Subjects

- (1) Research and development of RI production technologies at RIBF
- (2) RI application research
- (3) Distribution of RIs produced at RIBF
- (4) Development of radioactive targets and sources
- (5) Development of trace element analyses using accelerator techniques and their applications to geoscience and archaeological research fields
- (6) Development of chemical materials for ECR ion sources of the RIBF accelerators
- (7) Development of technologies on industrial utilization and novel industrial applications of RIBF
- (8) Support of industrial utilization of the heavy-ion beams at RIBF
- (9) Support of materials science experiments

3. Summary of Research Activity

See the subsections of Nuclear Chemistry Research Team and Industrial Application Research Team.

Member

Director

Hiromitsu HABA

List of Publications & Presentations

See the subsections of Nuclear Chemistry Research Team and Industrial Application Research Team.