

Advanced Energy Materials and Research

Research and development results on advanced materials for light water reactors and future works

Toshio Yonezawa
Tohoku University, Japan

In the past few years, the development of advanced materials for light water reactors (LWRs) has been progressing rapidly. This paper reports the research and development results on advanced materials for LWRs and future works. The materials are classified into two groups: (1) materials for the core and (2) materials for the primary system. The materials for the core are zirconium alloys, stainless steels, and nickel-based alloys. The materials for the primary system are austenitic stainless steels, ferritic/martensitic steels, and nickel-based alloys. The research and development results are summarized in this paper.

t-yonezawa@fri.niche.tohoku.ac.jp