

Recent Trend of Research and Development on Materials for Railway

Yasutomo SONE

Various innovations have been achieved by the progress of material technology such as realization of higher performance and/or higher function. Also in the railway systems, many kinds of material technologies contributed to the achievement of the higher performance or function of various equipments of railway vehicles and facilities, and these days, to more environmentally acceptable performance of various railway parts. In addition, analytical and measurement methods are regarded as important technologies to understand deterioration of materials which is necessary for accomplishing higher performance and function of the various parts. This review describes some of the results of the recent research and development of RTRI in the latest material technologies mainly contributing to the achievement of higher function, and also analytical and measurement methods that assist the progress of material technologies.