Dr. Seiichiro Ii

National Institute for Materials Science, Japan

Dr. Ii graduated from Kumamoto University in 1997 and received Dr. of Engineering from Kumamoto University in 2002. The title of his Ph.D thesis was “Microstructural analysis of twins in thermoelastic martensite in Ti-based shape memory alloys” supervised by Prof. Minoru Nishida. Then, he worked in the University of Tokyo (2002–2004) and Kyushu University (2004–2006) as a post-doctoral researcher. After that, Dr. Ii was in Sojo University in Kumamoto prefecture as Assistant and Associate Professor. In 2008, he moved to NIMS as a senior researcher. While working in NIMS, he visited University of Vienna (2009) as a guest researcher.

Dr. Ii’s research background is microstructural analysis by transmission electron microscopy. Particularly, he is focusing on the two-dimensional lattice defects such as grain boundaries and twins etc. in crystalline materials. So far, he has investigated many type of planer defects including the twins in the Ti-based shape memory alloys, direct observation of grain boundary fracture surface through the in-situ straining technique, and hetero interface structure of advanced semiconductor, etc. Dr. Ii’s current research is quantitative analysis of physical properties by transmission electron microscopy and its application to the grain boundaries. He is also interesting in local mechanical responses by means of nanoindentation and exploring the role of minor dopants on local mechanical response in metallic materials.