



Assistant Professor

WAKABAYASHI Hideki

Professor Room 4, NEXTA Building

Email: hwakabayashi[at]riko.shimane-u.ac.jp

(Please change [at] to @ for email.)

Background

2020- Assistant Professor, Institute of Science and Engineering, Shimane University

2019 Researcher, School of Materials and Chemical Technology, Tokyo Institute of Technology

Research

Microstructure characterization and control, Evaluation of high temperature deformation

Key papers

1. H. Wakabayashi, L. J. Signori, A. Shaaban, R. Yamagata, H. Nakashima and M. Takeyama, "Design Approaches and Achievements of Novel Wrought TiAl Alloys for Jet Engine Applications", MRS Advances, 4 (2019), 1465-1470.
2. H. Wakabayashi, R. Yamagata, H. Nakashima and M. Takeyama, "Effect of γ -TiAl/ γ Lamellar Interfaces and Grain-boundary α_2 -Ti₃Al Phase on Creep of TiAl Based Alloy", Joint EPRI-123HiMAT International Conference on Advances in High-Temperature Materials (2019), 1395-1401.
3. Hideki Wakabayashi, Shin Usui, Hirotoyo Nakashima, Satoru Kobayashi, Masao Takeyama, "Effect of Microstructural Stability on Creep Behavior of a Wrought TiAl Based Alloy with β -Ti Phase" Proceedings of the 1st International Conference on Advanced High-Temperature Materials Technology for Sustainable and Reliable Power Engineering (123HiMAT-2015), p.365-368.