



Assistant Professor

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Background

- 2017-present Assistant professor, Department of Physics and Materials Science, Shimane University
- 2016 Contract assistant professor, Dept. of Physics and Materials Science, Shimane University
- 2014-2016 Contract assistant professor, Center for the promotion of research, Shimane University
- 2011-2014 PhD, Shimane University
- 2007-2014 Lecturer at Hanoi University of Science and Technology, Vietnam
- 2007 Master of Science, Volgograd State Technical University, Russia
- 2005 Bachelor of Engineering, Volgograd State Technical University, Russia

Research

- Microstructure characterization to reveal the preparation techniques of old Japanese swords.
- Microstructure evolution during heat treatment of hot-work tool steel (Collaboration with Hitachi Metals)
- Non-destructive crystallographic study of old Japanese swords by using pulsed neutron imaging and neutron diffraction (Trans-institutional project involving research groups in Nagoya University, Hokkaido University, Shimane University and J-PARC)
- Selective growth of single-crystal on metal thin films by using micron chevron-shaped laser annealing
- Formation of freckle defects in Ni-based superalloys (Collaboration with Hitachi Metals)
- Synthesis of high-entropy ceramics by using RF thermal plasma (Collaboration with Shimane Institute for Industrial Technology)

Key papers

1. A.H. Pham, T. Ohba, S. Morito, T. Hayashi, "Application of Newton's method for precise calculation of parent orientation and orientation relationship from orientations of daughter phase", Mater. Char. 132 (2017), 108-118.
2. A.H. Pham, T. Ohba, S. Morito, T. Hayashi, "Automatic reconstruction approach for characterization of prior-austenite microstructure in various Japanese swords", Mater. Trans., 56 (2015), 1639-1647.
3. A.H. Pham, T. Ohba, S. Morito, T. Hayashi, "An advanced fitting method for crystallographic and morphological analyses of EBSD data applied for low-carbon steel martensite", Mater. Trans., 54 (2013) 1396-1402.
4. A.H. Pham, T. Ohba, S. Morito, T. Hayashi, "Energetic stability of boundary between variants in lath martensite", J. Alloys Compd. 577S (2013) S583-S586.