

AREAS OF EXPERTISE

- Additive Manufacturing
- Liquid Metal Dealloying
- Powder Metallurgy
- Materials Design
- Porous Materials
- Shape Memory Alloys
- High-Entropy Alloys
- Biomedical Materials
- Composite Materials
- Polymers

ANALYTICAL METHODS

- Light and Electron Microscopy
- X-Ray Diffraction Analysis
- Phase Diagram Analysis
- Dynamic Differential Calorimetry
- Destructive and Non-Destructive Material Testing
- Damage Analysis

LANGUAGES AND COMPUTER SKILLS

- Language | English (Fluency), Russian (Native)
- Programs | MS Office, Origin, ImageJ, Adobe Photoshop

CONTACTS

- Address | Shchorsa Street 30-64, 620142 Ekaterinburg
- Phone | +7(950)198-45-47
- E-mail | okulovartem@imp.uran.ru

DR.-ING. ARTEM OKULOV

HEAD OF ADDITIVE MANUFACTURING LABORATORY

ABOUT

"I have been doing research in materials science over 10 years. My scientific interests are additive manufacturing and porous biomedical Ti-based materials, including highentropy alloys, synthesized by liquid metal dealloying."

WORK EXPERIENCE

HEAD OF LABORATORY

Additive Manufacturing Laboratory, Institute of Metal Physics, Russian Academy of Sciences, Ekaterinburg (Russian Federation) | Since Oct 2021

- · Laboratory research management
- · Planning and conducting experiments
- Coordination of the third-party co-executors work
- Academic personnel training
- Preparation of scientific reports
- Reading lectures and conducting seminars
- Writing scientific papers and monographs

SENIOR RESEARCHER

Additive Manufacturing Laboratory, Institute of Metal Physics, Russian Academy of Sciences, Ekaterinburg (Russian Federation) | Since Apr 2022

- Planning and conducting experiments
- Rationale of the research relevance and novelty
- Formulation of the main research hypotheses
- · Decomposition of the research goal into separate tasks
- · Coordination of solving research tasks
- Generalization of scientific results
- Writing scientific papers and monographs

RESEARCHER

Laboratory of Laser and Plasma Processing, Institute of Metal Physics, Russian Academy of Sciences, Ekaterinburg (Russian Federation) | Dec 2018 to Apr 2022

- Planning and conducting experiments
- Performance of individual scientific tasks
- Development of research methods
- Generalization of scientific results
- Analysis of scientific information
- Writing scientific reports and giving oral talks

PUBLICATIONS

- 1.N.V. Gokhfeld, **A.V. Okulov**, M.A. Philippov, S.Kh. Estemirova, Yu.S. Korobov and S.O. Morozov, Phys. Solid State, 64, 356-361 (2022)
- 2.**A.V. Okulov**, S.-H. Joo, H.S. Kim, H. Kato and I.V. Okulov, Metals, 1396, 10(10), 1–7 (2020)
- 3.I.V. Okulov, S.-H. Joo, A.V. Okulov, A.S. Volegov, B. Luthringer, R. Willumeit-Römer, L. Zhang, L. Mädler, J. Eckert and H. Kato, Nanomaterials, 1479, 10(8), 1–12 (2020)
- 4.A.V. Okulov, E.S. Belosludtseva, N.N. Kuranova, E.B. Marchenkova, A.V. Pushin, V.G. Pushin, J. Phys. Conf. Ser., 1389(1), 1–7 (2019)
- 5.I.V. Okulov, M. Bönisch, A.V. Okulov, A.S. Volegov, H. Attar, S. Ehtemam-Haghighi, M. Calin, Z. Wang, A. Hohenwarter, I. Kaban, K.G. Prashanth, J. Eckert, Mater. Sci. Eng. A, 733, 80–86 (2018)
- 6.I.V. Okulov, A.V. Okulov, A.S. Volegov, J. Markmann, Scr. Mater., 154, 68–72 (2018)
- 7.**A.V. Okulov**, A.S. Volegov, J. Weissmüller, J. Markmann, I.V. Okulov, Scr. Mater., 146, 290–294 (2018)
- 8.I.V. Okulov, A.V. Okulov, I.V. Soldatov, B. Luthringer, R. Willumeit-Römer, T. Wada, H. Kato, J. Weissmüller, J. Markmann, Mater. Sci. Eng. C, 88, 95–103 (2018)
- 9.I.V. Okulov, M.F. Sarmanova, A.S. Volegov, A. Okulov, U. Kühn, W. Skrotzki, J. Eckert, Mater. Lett., 158, 111–114 (2015)

GUEST SCIENTIST

Helmholtz-Zentrum Geesthacht, Institute of Materials Research, Division of Materials Mechanics, Geesthacht (Germany) | Sep 2016 to Nov 2016

• Synthesis and characterization of dealloyed open porous materials and metal-polymer composites for biomedical applications

JUNIOR RESEARCHER

Laboratory of Non-Ferrous Alloys, Institute of Metal Physics, Russian Academy of Sciences, Ekaterinburg (Russian Federation) | Apr 2013 to Dec 2018

- Planning and conducting experiments
- Performance of individual scientific tasks
- Development of research methods
- Generalization of scientific results
- Analysis of scientific information
- Writing scientific reports and giving oral talks

EDUCATION

MASTER DEGREE IN BIOMEDICAL ENGINEERING Ural Federal University, Ekaterinburg (Russian Federation) | Sep 2011 to Jun 2013

ENGINEER DEGREE IN MECHANICAL ENGINEERING Ural State Agrarian University, Ekaterinburg (Russian Federation) | Sep 2005 to Jun 2010

HIGH SCHOOL DIPLOMA

Gymnasium №155, Ekaterinburg (Russian Federation) | Sep 2003 to Jun 2005

ADVANCED TRAINING

THE OPERATOR'S CERTIFICATE (TEM)

International School of Microscopy, National University of Science and Technology "MISiS", Moscow (Russian Federation) | Feb 2022 to Mar 2022