

Personal Information

Email: reris@metu.edu.tr

Web: <https://avesis.metu.edu.tr/reris>

International Researcher IDs

ScholarID: J7mKUBsAAAAJ

ORCID: 0000-0001-5718-4275

Publons / Web Of Science ResearcherID: AAT-5063-2021

ScopusID: 57195102097

Yoksis Researcher ID: 242062

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Unveiling the effect of Hf-(Mo,W) addition on the coarsening, agglomeration, and dissolution behaviour of γ' -Ni₃Al precipitates in model Ni-based superalloys**
ERİŞ R., AKDENİZ M. V., MEHRABOV A.
Journal of Alloys and Compounds, vol.936, 2023 (SCI-Expanded)
- II. **On the Optimization of the Microstructural and Mechanical Properties of Model Ni-Based Superalloys Through the Alloying Effects of Refractory Mo and W Elements**
Eriş R., Akdeniz M. V., Mekhrabov A.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.53, no.5, pp.1859-1872, 2022 (SCI-Expanded)
- III. **The Site Preferences of Transition Elements and Their Synergistic Effects on the Bonding Strengthening and Structural Stability of γ' -Ni₃Al Precipitates in Ni-Based Superalloys: A First-Principles Investigation**
Eriş R., Akdeniz M. V., Mekhrabov A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.52, no.6, pp.2298-2313, 2021 (SCI-Expanded)
- IV. **Atomic size effect of alloying elements on the formation, evolution and strengthening of gamma'-Ni₃Al precipitates in Ni-based superalloys**
Eriş R., Akdeniz M. V., Mekhrabov A.
INTERMETALLICS, vol.109, pp.37-47, 2019 (SCI-Expanded)
- V. **High-temperature site preference and atomic short-range ordering characteristics of ternary alloying elements in gamma '-Ni₃Al intermetallics**
Eris R., Mekhrabov A., Akdeniz M. V.
PHILOSOPHICAL MAGAZINE, vol.97, pp.2615-2631, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Effects of Refractory Element Addition on the Long Term Stability and Microstructural Characteristics of Nickel-Based Superalloys:**
Eriş R., Akdeniz M. V., Mekhrabov A.
TMS 2017 146th Annual Meeting and Exhibition, California, United States Of America, 26 February - 02 March 2017

II. The Effects of Transition Metal Element Addition on the Temporal Evolution and Microstructural Characteristics of Nickel-based Superalloys

Eriş R., Akdeniz M. V., Mekhrabov A.

TMS 2017 146th Annual Meeting and Exhibition, California, United States Of America, 26 February - 02 March 2017

III. The Effects of Cr Addition on the Atomic Ordering Properties of Ni Based Superalloys

Eriş R., Mekhrabov A., Akdeniz M. V.

18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.689-692

Supported Projects

MEHRABOV A., ERİŞ R., AKDENİZ M. V., Project Supported by Higher Education Institutions, Yüksek Sıcaklık Ni-Al Esaslı Süperalaşımlarının Tasarımı ve Geliştirilmesi, 2017 - 2017

Metrics

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