

Res. Asst. SEDAT ALPEREN TUNÇ

Personal Information

Office Phone: [+90 462 377](tel:+90462377) Extension: 4039

Email: sedatalperentunc@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/sedatalperentunc>

Address: Karadeniz Teknik Üniversitesi, Metalurji ve Malzeme Mühendisliği Bölümü 61080-TRABZON

International Researcher IDs

ScholarID: q7BVryoAAAAJ

ORCID: 0000-0001-7382-2353

Publons / Web Of Science ResearcherID: HTQ-7353-2023

ScopusID: 58126432700

Yoksis Researcher ID: 336360

Education Information

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2020 - Continues

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2015 - 2020

Foreign Languages

English, B2 Upper Intermediate

German, A1 Beginner

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Material Characterization, Production Metallurgy, Powder Metallurgy, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Effect of different PCA types on morphology, physical, thermal and mechanical properties of AA2024-B4C composites**
TUNÇ S. A., ÇANAKÇI A., KARABACAK A. H., ÇELEBİ M., Turkmen M.
POWDER TECHNOLOGY, vol.434, 2024 (SCI-Expanded)
- The effects of different types and ratios of reinforcement, and machining processes on the**

machinability of Al2024 alloy nanocomposites

Karabacak A. H., Çanakçı A., Özkaya S., Tunç S. A., Çevik Z. A., Yalçın E. D.

JOURNAL OF COMPOSITE MATERIALS, vol.57, no.18, pp.2811-2827, 2023 (SCI-Expanded)

III. Production of Al2024/h-BN nanocomposites with improved corrosion, wear and mechanical properties

Karabacak A. H., Çanakçı A., Çelebi M., Güler O., Tunç S. A., Arpacı K. A.

Materials Chemistry and Physics, vol.300, 2023 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. EFFECT OF H-BN CONTENT ON MORPHOLOGY, PARTICLE SIZE, AND MICROHARDNESS OF Al2024/B4C/h-BN HYBRID NANOCOMPOSITE POWDERS**
Çelebi M., Karabacak A. H., Özkaya S., Tunç S. A.
5TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Rize, Turkey, 8 - 10 November 2023, pp.1357-1364
- II. The Effect of Different PCA Types on the Properties of AA2024-B4C Composites**
Tunç S. A., Çanakçı A., Karabacak A. H., Çelebi M.
2. BİLSEL International World Science and Research Congress, İstanbul, Turkey, 16 - 17 September 2023, pp.417-425
- III. FABRICATION AND PROPERTIES OF FENICUCRAL HIGH ENTROPY ALLOYS BY POWDER METALLURGY**
Karabacak A. H., Çelebi M., Özkaya S., Tunç S. A.
2. BİLSEL INTERNATIONAL WORLD SCIENCE AND RESEARCH CONGRESS, İstanbul, Turkey, 16 - 17 September 2023, pp.335-345
- IV. Investigation of the Effect of TiH₂ Amount on Foaming in AA2024 Based Metallic Foams Produced by Powder Metallurgy**
Tunç S. A., Çanakçı A., Karabacak A. H., Özkaya S.
2. BİLSEL International World Science and Research Congress, İstanbul, Turkey, 16 - 17 September 2023, pp.410-416
- V. Investigation of Mechanical Properties of Cu-316L Metal-Metal Composites Produced by Powder Metallurgy Method**
Tunç S. A., Çanakçı A., Karabacak A. H.
3RD INTERNATIONAL CONFERENCE ON APPLIED ENGINEERING AND NATURAL SCIENCES, Konya, Turkey, 20 - 23 July 2022, pp.2034-2039
- VI. Production and Microstructure Investigations of 316L Stainless Steel Reinforced Copper Matrix Composites**
Tunç S. A., Çanakçı A., Karabacak A. H.
3RD INTERNATIONAL CONFERENCE ON APPLIED ENGINEERING AND NATURAL SCIENCES, Konya, Turkey, 20 - 23 July 2022, pp.1051-1055
- VII. Machining of Al2024-SiC Nanocomposites by WEDM Method**
Karabacak A. H., Tunç S. A.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.865-868
- VIII. Investigation of the Effect of Temperature and Foaming Time on AA2024 Based Metal Foam Production**
Tunç S. A., Çanakçı A., Karabacak A. H., Özkaya S.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 November - 03 December 2021, pp.494-497
- IX. Production and Characterization of AA2024 Based Foam Layered Functionally Graded Composites**
Tunç S. A., Çanakçı A., Karabacak A. H.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021,

pp.498-501

X. The Effect of The Amount of Reinforcement on The Machining of Al₂O₃-B₄C/SiC Hybrid Nanocomposites by AWJ Method

Karabacak A. H., Çanakçı A., Tunç S. A.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.507-511

XI. Machining of Metal Matrix Hybrid Nanocomposites with WEDM Method

Karabacak A. H., Çanakçı A., Tunç S. A., Özkaya S.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.502-506

Supported Projects

Çanakçı A., Çuvalcı H., Varol T., Alver Ü., Erdemir F., Aslan M., Sezer R., Karabacak A. H., Güler O., Yalçın E. D., et al., Project Supported by Higher Education Institutions, AA2024 CuNiCr Takviyeli Metal Matrisli Kompozitlerin Üretimi ve Özelliklerinin İncelenmesi , 2023 - 2025

Çanakçı A., Çuvalcı H., Gedikli H., Yılmaz A. H., Varol T., Erdemir F., Karabacak A. H., Tunç S. A., Başkan T., Meriç D., et al., Project Supported by Higher Education Institutions, Production and Characterization of New Generation Functional Composite Armor Plates with High Ballistic Resistance and Radiation Absorption Properties, 2022 - 2025

Metrics

Publication: 14

Citation (WoS): 12

Citation (Scopus): 13

H-Index (WoS): 2

H-Index (Scopus): 2