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International Researcher IDs

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

ScopusID: 58126432700

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Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2024 - Continues

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2020 - 2024

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

Foreign Languages

English, B2 Upper Intermediate

German, A1 Beginner

Dissertations

Postgraduate, Toz metalurjisi yöntemiyle üretilen AA2024 - B4C kompozitlerinin özelliklerinde PCA katkısının incelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2024

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

- I. **Effect of AlCrCuFeNi high entropy alloy reinforcements with and without B4C on powder characteristic, mechanical and wear properties of AA5083 metal-metal composites**
KARABACAK A. H., ÇANAKÇI A., ÖZKAYA S., TUNÇ S. A., GÜLER O., ÇELEBİ M.
Journal of Alloys and Compounds, vol.1008, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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. **EXPLORING THE INFLUENCE OF GRAPHITE AND GRAPHENE NANO- REINFORCEMENTS ON THE POWDER CHARACTERISTICS OF Al2024-BASED NANOCOMPOSITES**
Çelebi M., Karabacak A. H., Tunç S. A.
9th International Azerbaijan Congress on Life, Engineering, Mathematical, and Applied Sciences, Baku, Azerbaijan, 20 - 22 December 2024, pp.353-360
- II. **IMPACT OF REINFORCEMENT TYPES ON THE PHYSICAL, MECHANICAL, AND WEAR BEHAVIOR OF Al2024 MATRIX NANOCOMPOSITES**
Çelebi M., Çanakçı A., Tunç S. A.
9th International Azerbaijan Congress on Life, Engineering, Mathematical, and Applied Sciences, Baku, Azerbaijan, 20 - 22 December 2024, pp.361-369
- III. **Effect of Methanol Addition on the Particle Size and Morphology of Al-Cu Composites**
BIYIK S., ÇANAKÇI A., TUNÇ S. A.
7th International Conference on Sustainable Sciences and Technology, İstanbul, Turkey, 12 - 14 July 2024, pp.51-57
- IV. **Influence of Nanographene and Methanol Additions on the Mechanical Alloying Behavior of Al-Cu/SiC/NG Composites**
BIYIK S., ÇANAKÇI A., TUNÇ S. A.
7th International Conference on Sustainable Sciences and Technology, İstanbul, Turkey, 12 - 14 July 2024, pp.42-50
- V. **The Investigation of the Effect of Increasing B4C Amount on Mechanical Properties and Microstructures of Composites in AA2024 Matrix Composites Produced By Powder Metallurgy**
Tunç S. A., Karabacak A. H., Çelebi M.
10th International Artemis Scientific Research Congress, Bucuresti, Romania, 29 - 30 November 2024, pp.32-39
- VI. **Investigation Of The Effect Of Increasing B4C Reinforcement Amount On Powder Morphology And Physical Properties In Mechanical Alloying In Aa2024 Matrix Composites**
Tunç S. A., Çanakçı A., Çelebi M.
2. International Üsküdar Scientific Research and Innovation Congress, İstanbul, Turkey, 29 - 30 November 2024, pp.955-963
- VII. **Production and Investigation of the Properties of Mg Chip and Graphene Reinforced Al Matrix Composites Produced By Powder Metallurgy**

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

10th International Artemis Scientific Research Congress, Bucuresti, Romania, 29 - 30 November 2024, pp.40-48

- VIII. **EFFECT OF NANO-B4C REINFORCEMENT ON THE POWDER SIZE, POWDER HARDNESS, AND POWDER MORPHOLOGY OF AL2024/GRAPHITE/B4C HYBRID NANOCOMPOSITES**
Çelebi M., Karabacak A. H., Tunç S. A.
1. INTERNATIONAL AVRASYA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Baku, Azerbaijan, 22 - 24 November 2024, pp.806-816
- IX. **PRODUCTION AND CHARACTERIZATION OF FUNCTIONALLY GRADED Al2024-B4C COMPOSITES: DENSITY, TENSILE TESTING, AND RADIATION ABSORPTION PROPERTIES**
Karabacak A. H., Çelebi M., Tunç S. A.
1. INTERNATIONAL AVRASYA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Baku, Azerbaijan, 22 - 24 November 2024, pp.817-823
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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

XIX. The Effect of The Amount of Reinforcement on The Machining of Al2024-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

XX. 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

Supported Projects

Çanakçı A., Çuvalcı H., Alver Ü., Varol T., Erdemir F., Aslan M., Özkaya S., Güler O., Hekimoğlu G., Karabacak A. H., et al., Project Supported by Higher Education Institutions, Düşünme Tasarlama Üretim Teknolojilerinin Geliştirilmesini Sağlayacak Araştırma ve Geliştirme Atölyesinin Kurulması, 2024 - 2026

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: 24

Citation (WoS): 22

Citation (Scopus): 27

H-Index (WoS): 3

H-Index (Scopus): 3