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### International Researcher IDs

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Turkey 2018 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Anabilim Dalı, Turkey 2014 - 2018

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2009 - 2014

### Foreign Languages

English, B1 Intermediate

### Dissertations

Postgraduate, Al<sub>2</sub>O<sub>3</sub>/B<sub>4</sub>C/SiC NANOKOMPOZİT VE HİBRİT NANOKOMPOZİTLERİN ÜRETİMİ VE ÖZELLİKLERİNİN İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Anabilim Dalı, 2018

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Nanomaterials, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Fen Bilimleri Enstitüsü, -, 2017 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- Investigation of microstructural, hardness, and wear properties of AlCrCuFeNi high entropy alloys

**produced by hot-pressing with the enhancement of manufacturability through electroless Ag incorporation**

ÇELEBİ M., GÜLER O., KARABACAK A. H., ÇANAKÇI A., AKÇAY S. B., KOCAMAN M., ÇUVALCI H., VAROL T.  
Tribology International, vol.201, 2025 (SCI-Expanded)

- II. **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)
- III. **A Study on the Optimization of Nano-B4C Content for the Best Wear and Corrosion Properties of the Al-Based Hybrid Nanocomposites**  
ÇANAKÇI A., KARABACAK A. H., ÇELEBİ M., ÖZKAYA S., Arpacı K. A.  
Arabian Journal for Science and Engineering, vol.49, no.11, pp.14625-14641, 2024 (SCI-Expanded)
- IV. **Pre-hardening water quenching effect on the wear resistance of TiCN coated 4140 steels**  
YALÇIN E. D., GÜLER O., KARABACAK A. H., ÇANAKÇI A., VAROL T., KOCAMAN M., ÇELEBİ M., AKÇAY S. B.  
SURFACE & COATINGS TECHNOLOGY, vol.480, 2024 (SCI-Expanded)
- V. **Synthesis of hydroxyapatite matrix Ag and CNT particle reinforced hybrid biocomposites with improved mechanical and antibacterial properties**  
ÖZKAYA S., ÇANAKÇI A., KARABACAK A. H., ÇELEBİ M., ÇANAKÇI S., CEYLAN E.  
International Journal of Materials Research, vol.115, no.3, pp.190-201, 2024 (SCI-Expanded)
- VI. **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)
- VII. **A study on the improvement of wear and corrosion properties of ZA40/Graphene/B4C hybrid nanocomposites**  
Çelebi M., Çanakçı A., Güler O., Karabacak H., Akgül B., Özkaya S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.966, 2023 (SCI-Expanded)
- VIII. **The effect of advanced electrodeposited Ni-P-Cu coatings obtained with scrap cu plates on the tribological performance of Al powder metallurgy products**  
Güler O., Çelebi M., Karabacak A. H., Çanakçı A.  
SURFACE & COATINGS TECHNOLOGY, vol.468, 2023 (SCI-Expanded)
- IX. **Investigation of corrosion resistance and impact performance properties of Al<sub>2</sub>O<sub>3</sub>/SiC-doped aluminium-based composites**  
Çalhgülü U., Kaçmış M. V., Karabacak A. H., Çanakçı A., Özkaya S.  
BULLETIN OF MATERIALS SCIENCE, vol.46, no.3, 2023 (SCI-Expanded)
- X. **Study on Effect of Milling Time on the Mechanical and Wear Properties of the ZA40-B4C-Graphene Hybrid Nanocomposites Fabricated by Vacuum Hot-Pressing**  
Çelebi M., Çanakçı A., Güler O., Akgül B., Karabacak A. H.  
JOM, vol.75, no.9, pp.3935-3950, 2023 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **The effect of boron nitride (h-BN) and silicon carbide (SiC) on the microstructure and wear behavior of ZA40/SiC/h-BN hybrid composites processed by hot pressing**  
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., VAROL T., KARABACAK A. H.  
KOVOVE MATERIALY-METALLIC MATERIALS, vol.61, no.4, pp.257-266, 2023 (SCI-Expanded)

- XIV. **Investigation of Microstructure, Hardness and Wear Properties of Hybrid Nanocomposites with Al2024 Matrix and Low Contents of B4C and h-BN Nanoparticles Produced by Mechanical Milling Assisted Hot Pressing**  
ÇELEBİ M., ÇANAKÇI A., GÜLER O., ÖZKAYA S., KARABACAK A. H., Arpacı K. A.  
JOM, vol.74, no.11, pp.4449-4461, 2022 (SCI-Expanded)
- XV. **Corrosion and Mechanical Properties of Novel AA2024 Matrix Hybrid Nanocomposites Reinforced with B4C and SiC Particles**  
KARABACAK A. H., ÇANAKÇI A., ERDEMİR F., ÖZKAYA S., ÇELEBİ M.  
SILICON, vol.14, no.14, pp.8567-8579, 2022 (SCI-Expanded)
- XVI. **The effect of machining processes on the physical and surface characteristics of AA2024-B4C-SiC hybrid nanocomposites fabricated by hot pressing method**  
Cevik Z. A., KARABACAK A. H., Kok M., ÇANAKÇI A., Kumar S. S., VAROL T.  
JOURNAL OF COMPOSITE MATERIALS, vol.55, no.19, pp.2657-2671, 2021 (SCI-Expanded)
- XVII. **Effects of Fe-Al intermetallic compounds on the wear and corrosion performances of AA2024/316L SS metal/metal composites**  
ÇANAKÇI A., ÖZKAYA S., ERDEMİR F., KARABACAK A. H., ÇELEBİ M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.845, 2020 (SCI-Expanded)
- XVIII. **Effect of different reinforcement on the microstructure and mechanical properties of AA2024-based metal matrix nanocomposites**  
KARABACAK A. H., Çanakçı A., ERDEMİR F., ÖZKAYA S., ÇELEBİ M.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.111, no.5, pp.416-423, 2020 (SCI-Expanded)
- XIX. **Enhancement of Wear and Corrosion Resistance of ZA27/Nanographene Composites Produced by Powder Metallurgy**  
YALÇIN E. D., ÇANAKÇI A., ERDEMİR F., ÇUVALCI H., KARABACAK A. H.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, no.2, pp.1437-1445, 2019 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Farklı Seramik Takviyeli Al Alaşım Matrisli Nanokompozitlerin Mekanik ve Korozyon Özelliklerinin İncelenmesi**  
Karabacak A. H., Çanakçı A.  
Karadeniz Fen Bilimleri Dergisi, vol.13, no.1, pp.1-14, 2023 (Peer-Reviewed Journal)
- II. **Mechanical property and structural-elemental analysis of marine bivalve mollusc shells: Cerastoderma edule, Chamelea gallina, Donax trunculus, Ruditapes decussatus**  
Kocabaş F. K., KOCABAŞ M., ÇANAKÇI A., KARABACAK A. H.  
International Aquatic Research, vol.15, no.1, pp.39-50, 2023 (ESCI)
- III. **The Effect of Milling Time on the Mechanical Properties of ZA27/Al203 Nanocomposites**  
ÇELEBİ M., ÇANAKÇI A., ÖZKAYA S., KARABACAK A. H.  
Universal Journal of Materials Science, vol.6, no.5, pp.163-169, 2018 (Peer-Reviewed Journal)
- IV. **PRODUCTION AND PROPERTIES OF AL2024-2 WT.% (SiC-B4C) HYBRID NANOCOMPOSITE**  
KARABACAK A. H., ÇANAKÇI A., ÖZKAYA S., ÇELEBİ M., YALÇIN E. D.  
Technological Applied Sciences, vol.13, pp.29-33, 2018 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Fabrication and Characterization of AA5083-Ni Metal-Metal Composites**  
Özkaya S., Çanakçı A., Çelebi M., Karabacak A. H.  
AKDENİZ 10th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Girne, Cyprus (Kkctc), 2 - 05 November 2023, pp.15-20

- II. **AA5083-Cr Composite Example in terms of Production and Investigation of Metal-Metal Composites**  
Özkaya S., Çanakçı A., Çelebi M., Karabacak A. H.  
AKDENİZ 10th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Girne, Cyprus (Kktc), 2 - 05 November 2023, pp.25-29
- III. **EFFECT OF H-BN CONTENT ON MORPHOLOGY, PARTICLE SIZE, AND MICROHARDNESS OF Al<sub>2</sub>O<sub>3</sub>/B<sub>4</sub>C/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
- IV. **MICROSTRUCTURAL AND MECHANICAL RESPONSE OF Al<sub>2</sub>O<sub>3</sub>/H-BN/B<sub>4</sub>C HYBRID NANOCOMPOSITES TO VARYING H-BN CONTENT VIA POWDER METALLURGY**  
Çelebi M., Çanakçı A., Karabacak A. H., Özkaya S.  
5TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Rize, Turkey, 8 - 10 November 2023, pp.1351-1356
- V. **Effect Of Secondary Phases On The Mechanical And Antibacterial Properties Of Hydroxyapatite Matrix Cnt Reinforced Biocomposites**  
Özkaya S., Çanakçı A., Çelebi M., Karabacak A. H.  
KARADENİZ 14TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Batumi, Georgia, 13 - 15 October 2023, pp.36-43
- VI. **Effect Of Sintering Temperature On Some Mechanical Properties Of Hydroxyapatite Matrix Ag-Reinforced Biomaterials**  
Özkaya S., Çanakçı A., Çelebi M., Karabacak A. H.  
KARADENİZ 14TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Batumi, Georgia, 13 - 15 October 2023, pp.27-35
- VII. **FABRICATION and PROPERTIES INVESTIGATION of FeNiCuCrAl-1% B<sub>4</sub>C HIGH ENTROPY ALLOY**  
Karabacak A. H., Çanakçı A., Çelebi M., Özkaya S.  
UMTEB – XIV International Scientific Research Congress, Naples, Italy, 14 - 15 September 2023, pp.97-108
- VIII. **FABRICATION OF Ti-HAP-CNT HYBRID COMPOSITE BIOMATERIALS AND INVESTIGATION OF PROPERTIES**  
Karabacak A. H., Çanakçı A., Çelebi M., Özkaya S.  
UMTEB – XIV International Scientific Research Congress, Naples, Italy, 14 - 15 September 2023, pp.86-96
- IX. **Investigation of the Effect of TiH<sub>2</sub> 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
- X. **PRODUCTION AND PROPERTIES OF TI-HAP-CNT HYBRID BIOMATERIAL POWDERS BY POWDER**  
Karabacak A. H., Çanakçı A., Özkaya S., Çelebi M.  
2. BİLSEL INTERNATIONAL WORLD SCIENCE AND RESEARCH CONGRESS, İstanbul, Turkey, 16 - 17 September 2023, pp.320-334
- XI. **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
- XII. **The Effect of Different PCA Types on the Properties of AA2024-B<sub>4</sub>C 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. **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

- 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. **CNC Machining of B4C Reinforcement Metal Matrix Nanocomposites**  
Karabacak A. H., Çelebi M.  
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.1286-1289
- XVI. **Machining of Al2024-SiC Metal Matrix Nanocomposites with CNC Method**  
Karabacak A. H., Çanakçı A.  
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.133-136
- XVII. **The Effect of The Amount of Reinforcement on The Machining of Al2024- B4C Nanocomposites by WEDM Method**  
Karabacak A. H., Çanakçı A.  
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.462-466
- XVIII. **Machining of Metal Matrix Hybrid Nanocomposites with CNC milling method**  
Karabacak A. H., Çelebi M.  
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.457-461
- XIX. **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
- XX. **The Effect of Graphene nano-Particle Content on the Wear Behavior of Zn-Al Alloy Based and B4C Reinforced Hybrid Nanocomposites**  
Çelebi M., Karabacak A. H.  
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.478-481
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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

- XXV. **Production of Hydroxyapatite Matrix Ag and CNT Reinforced Biocomposites by Powder Metallurgy Method and Investigation of Mechanical Properties**  
Özkaya S., Çanakçı A., Karabacak A. H., Çanakçı S., Ceylan E.  
IES'20 International Engineering Symposium Engineering Applications in Industry, İzmir, Turkey, 10 - 13 December 2020, pp.1-2
- XXVI. **Wear Behavior of AA2024-316L SS Metal Metal Composites**  
Karabacak A. H., Çanakçı A., Özkaya S., Erdemir F., Çelebi M.  
IES'20 International Engineering Symposium Engineering Applications in Industry, İzmir, Turkey, 10 - 13 December 2020, pp.1-2
- XXVII. **Corrosion performance of AA2024-316L SS Metal-Metal composites**  
Karabacak A. H., Çanakçı A., Özkaya S., Erdemir F.  
IES'20 International Engineering Symposium Engineering Applications in Industry, İzmir, Turkey, 10 - 13 December 2020, pp.1-2
- XXVIII. **Production and Comparison of Properties of B4C and SiC Reinforced Nanocomposites**  
KARABACAK A. H., ÇANAKÇI A., ÖZKAYA S., ÇELEBİ M.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.716-720
- XXIX. **The Effect of Hex-Boron Nitride Content on the Mechanical and Tribological Properties of Al-Based Alloy Nanocomposites**  
ÇELEBİ M., ÇANAKÇI A., ÖZKAYA S., KARABACAK A. H.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.1157-1161
- XXX. **The Effect of Mechanical milling on the Microstructure and Particle Morphology of ZnAl40Cu2/B4C/GrapheneHybridNanocomposites**  
ÇELEBİ M., ÖZKAYA S., ÇANAKÇI A., KARABACAK A. H.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 September - 21 November 2019, pp.1162-1165
- XXXI. **Fabrication and Investigation of Properties of Hydroxyapatite CNT Bioceramics**  
ÖZKAYA S., ÇANAKÇI A., KARABACAK A. H., ÇELEBİ M.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 September - 21 November 2019, pp.645-650
- XXXII. **Mechanical and Physical Properties of Al2024-B4C/SiC Hybrid Nanocomposite by Fabrication Powder Metallurgy**  
KARABACAK A. H., ÇANAKÇI A., ÖZKAYA S., ÇELEBİ M.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.710-715
- XXXIII. **Consolidation and Investigation of Properties of Hydroxyapatite-316L Stainless Steel Composites**  
Karabacak A. H., Özkaya S., Çanakçı A., Varol T., Çelebi M., Erdemir F.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.828-834
- XXXIV. **Microstructure and Mechanical Properties of Al2024-SiC Nanocomposites**  
Karabacak A. H., Çanakçı A., Varol T., Erdemir F.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.788-797
- XXXV. **Production and Properties of Al2024- 2 wt. (SiC-B4C) HybridNanocomposite**  
KARABACAK A. H., ÇANAKÇI A., ÖZKAYA S., ÇELEBİ M., YALÇIN E. D.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1322-1327
- XXXVI. **Microstructure and Mechanical Properties of Al2024-B4C Nanocomposite Produced by Mechanical Alloying and Hot Pressing Method**  
KARABACAK A. H., ÖZKAYA S., ÇANAKÇI A., ÇALIGÜLÜ U.

- 8th International Advanced Technologies Symposium, Elazığ, Turkey, 18 - 22 October 2017, pp.1285-1289
- XXXVII. **Characterization and Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-SiC Nanocomposites Fabricated by Mechanical Alloying**  
KARABACAK A. H., ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S.  
8th International Advanced Technologies Symposium, Elazığ, Turkey, 18 - 22 October 2017, pp.1299-1304
- XXXVIII. **Microstructure and Some Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-B<sub>4</sub>C Composites Fabricated by Powder Metallurgy**  
KARABACAK A. H., ÇANAKÇI A., ERDEMİR F., VAROL T., YALÇIN E. D.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1314-1321
- XXXIX. **Effect of Processing Parameters on AlCuMg Metallic Foams**  
ÇANAKÇI A., ÖZKAYA S., VAROL T., Keskin Ö. Y., ÇELEBİ M., KARABACAK A. H.  
Uluslararası 2. Savunma Sanayi Sempozyumu, 6 - 08 April 2017, pp.636-640
- XL. **Effect of Processing Parameters on Functionally Graded AlCuMg Metallic Foams**  
ÇANAKÇI A., ÖZKAYA S., VAROL T., ÇELEBİ M., KESKİN Ö. Y., KARABACAK A. H.  
2nd International Defense Industry Symposium, Kırıkkale, Turkey, 6 - 08 April 2017, pp.636-640
- XLI. **Aşınmaya ve Korozyona Dirençli Nanoparçacık Takviyeli Kompozit Yatak Malzemesinin Toz Metalurjisi Yöntemi ile Üretilmesi**  
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., ERDEMİR F., VAROL T., KARABACAK A. H.  
2. ULUSLARARASI SAVUNMA SANAYİ SEMPOZYUMU (IDEFIS 2017), Kırıkkale, Turkey, 6 - 08 April 2017, vol.2, pp.189-190
- XLII. **The Production and Wear and Corrosion Resistance Composite bearing Material Reinforcement with Nanoparticle by Powder Metallurgy**  
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., VAROL T., ERDEMİR F., KARABACAK A. H.  
2nd International Defense Industry Symposium, Kırıkkale, Turkey, 6 - 08 April 2017, pp.581-586
- XLIII. **CORROSION BEHAVIOR OF FUNCTIONALLY GRADED Al<sub>2</sub>O<sub>3</sub>/ B<sub>4</sub>C-SiC HYBRID COMPOSITES**  
KARABACAK A. H., ÇANAKÇI A., ERDEMİR F.  
XIV. INTERNATIONAL CORROSION SYMPOSIUM, 5 - 07 September 2016

## 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
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## Metrics



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## **Awards**

Karabacak A. H., 2023 First Place in Academic Incentive Ranking among Research Assistants, Karadeniz Teknik Üniversitesi Mühendislik Fakültesi, March 2024

KARABACAK A. H., Sunum Ödülü, International Conference on Advanced Engineering Technologies, September 2017