

## Res. Asst. ABDULLAH HASAN KARABACAK

### Personal Information

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### Education Information

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

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

Under Graduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey 2009 - 2014

### Foreign Languages

English, B1 Intermediate

### Dissertations

Post Graduate, A12024/B4C/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, Metalurji Ve Malzeme Anabilim Dalı, 2017 - Continues

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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 (Journal Indexed in SCI)
- 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.

III. **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 (Journal Indexed in SCI)

### Articles Published in Other Journals

I. **The Effect of Milling Time on the Mechanical Properties of ZA27/Al<sub>2</sub>O<sub>3</sub> Nanocomposites**

ÇELEBİ M., ÇANAKÇI A., ÖZKAYA S., KARABACAK A. H.

Universal Journal of Materials Science, vol.6, no.5, pp.163-169, 2018 (Refereed Journals of Other Institutions)

II. **PRODUCTION AND PROPERTIES OF AL<sub>2</sub>O<sub>3</sub>-2 WT.% (SiC-B<sub>4</sub>C) HYBRID NANOCOMPOSITE**

KARABACAK A. H. , ÇANAKÇI A., ÖZKAYA S., ÇELEBİ M., YALÇIN E. D.

Technological Applied Sciences, vol.13, pp.29-33, 2018 (National Refreed University Journal)

### Refereed Congress / Symposium Publications in Proceedings

I. **Production and Comparison of Properties of B<sub>4</sub>C 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

II. **Mechanical and Physical Properties of Al<sub>2</sub>O<sub>3</sub>-B<sub>4</sub>C/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

III. **The Effect of Mechanical milling on the Microstructure and Particle Morphology of ZnAl<sub>40</sub>Cu<sub>2</sub>/B<sub>4</sub>C/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

IV. **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

V. **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

VI. **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

VII. **Microstructure and Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-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

VIII. **Production and Properties of Al<sub>2</sub>O<sub>3</sub>- 2 wt. (SiC-B<sub>4</sub>C) HybridNanocomposite**

KARABACAK A. H. , ÇANAĞCI A., ÖZKAYA S., ÇELEBİ M., YALÇIN E. D.

International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1322-1327

- IX. **Characterization and Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-SiC Nanocomposites Fabricated by Mechanical Alloying**  
KARABACAK A. H. , ÇANAĞCI A., VAROL T., ERDEMİR F., ÖZKAYA S.  
8th International Advanced Technologies Symposium, Elazığ, Turkey, 18 - 22 October 2017, pp.1299-1304
- X. **Microstructure and Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-B<sub>4</sub>C Nanocomposite Produced by Mechanical Alloying and Hot Pressing Method**  
KARABACAK A. H. , ÖZKAYA S., ÇANAĞCI A., ÇALIGÜLÜ U.  
8th International Advanced Technologies Symposium, Elazığ, Turkey, 18 - 22 October 2017, pp.1285-1289
- XI. **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. , ÇANAĞCI A., ERDEMİR F., VAROL T., YALÇIN E. D.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1314-1321
- XII. **Effect of Processing Parameters on AlCuMg Metallic Foams**  
ÇANAĞCI 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
- XIII. **Aşınmaya ve Korozyona Dirençli Nanoparçacık Takviyeli Kompozit Yatak Malzemesinin Toz Metalurjisi Yöntemi ile Üretilmesi**  
YALÇIN E. D. , ÇANAĞCI 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
- XIV. **Effect of Processing Parameters on Functionally Graded AlCuMg Metallic Foams**  
ÇANAĞCI 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
- XV. **The Production and Wear and Corrosion Resistance Composite bearing Material Reinforcement with Nanoparticle by Powder Metallurgy**  
YALÇIN E. D. , ÇANAĞCI A., ÇUVALCI H., VAROL T., ERDEMİR F., KARABACAK A. H.  
2nd International Defense Industry Symposium, Kırıkkale, Turkey, 6 - 08 April 2017, pp.581-586
- XVI. **CORROSION BEHAVIOR OF FUNCTIONALLY GRADED Al<sub>2</sub>O<sub>3</sub>/ B<sub>4</sub>C-SiC HYBRID COMPOSITES**  
KARABACAK A. H. , ÇANAĞCI A., ERDEMİR F.  
XIV. INTERNATIONAL CORROSION SYMPOSIUM, 5 - 07 September 2016

## Supported Projects

VAROL T., ÇUVALCI H., BAYKAL S., DURAN C., ÇANAĞCI A., SARI A., ALTINTAŞ S. H. , PÜRÇEK G., GEDİKLİ H., ÇUVALCI O., et al., Project Supported by Higher Education Institutions, Biyomedikal ve İleri Mühendislik Malzemelerinin Seçici Lazer Ergitme Yöntemi İle Üretimi, 2020 - Continues

VAROL T., ÇUVALCI H., ÇANAĞCI A., GEDİKLİ H., ERDEMİR F., ÖZKAYA S., ÇELEBİ M., KARABACAK A. H. , ÖZŞAHİN Ş., Project Supported by Higher Education Institutions, Yapay Sinir Ağı Yöntemi ile Metalik Köpük Esaslı ve Fonksiyonel Kompozit Personel Zırhlama Plakalarının Geliştirilmesi, 2020 - Continues

ÇANAĞCI A., ÖZŞAHİN Ş., ÇUVALCI H., VAROL T., ERDEMİR F., ÖZKAYA S., KARABACAK A. H. , ÇELEBİ M., Project Supported by Higher Education Institutions, AA2024 esaslı Nanopartikül Takviyeli Hibrit kompozit Yatak Malzemelerinin Üretimi ve Tribolojik Özelliklerinin İncelenmesi, 2019 - Continues

ÇANAĞCI A., ÇUVALCI H., VAROL T., KARABACAK A. H. , ÖZKAYA S., Project Supported by Higher Education Institutions, Simetrik olarak Fonksiyonel Derecelendirilmiş HidroksiapatitZirkonyaGrafen Hibrit İmplant Malzemesinin Toz metalurjisi Yöntemi ile Üretimi, 2018 - 2020

ÖZTÜRK A., VAROL T., ÇANAĞCI A., TUBITAK Project, Nano Partikül Takviyeli Fonksiyonel Derecelendirilmiş Yeni Elektrik

Kontak Malzemelerinin Üretimi Ve Karakterizasyonu, 2014 - 2016

TUBITAK Project, Nano-parçacık takviyeli Zn-Al esaslı nano-kompozit malzemelerin geliştirilmesi, içyapı-mekanik ve tribolojik özelliklerinin incelenmesi, 2014 - 2016

## **Citations**

Total Citations (WOS):4

h-index (WOS):1

## **Awards**

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