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### Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Türkiye 2011 - 2016

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Türkiye 2009 - 2011

Lisans, Eskişehir Osmangazi Üniversitesi, Mühendislik Mimarlık Fakültesi, Metalurji Ve Malzeme Mühendisliği, Türkiye 2002 - 2006

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Fonksiyonel Derecelendirilmiş Al<sub>2</sub>O<sub>3</sub>/SiC Kompozitlerinin Üretimi ve Karakterizasyonu, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2016

Yüksek Lisans, Hızlı Katılaştırma Yöntemi ile Üretilmiş Nikel-Bakır (Monel 400) Alaşım Tozların Presleme ve Sinterleme Parametrelerinin İncelenmesi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2011

### Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2020 - Devam Ediyor

Dr. Öğr. Üyesi, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2020

Yrd. Doç. Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2016 - 2018

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Metalurji Ve Malzeme Mühendisliği, 2009 - 2016

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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- IV. **Corrosion and Mechanical Properties of Novel AA2024 Matrix Hybrid Nanocomposites Reinforced with B<sub>4</sub>C and SiC Particles**  
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- VI. **Electroless nickel-phosphorus coated expanded graphite paper: Binder-free, ultra-thin, and low-cost electrodes for high-performance supercapacitors**  
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- VIII. **Effect of TiN, TiAlCN, AlCrN, and AlTiN ceramic coatings on corrosion behavior of tungsten carbide tool**  
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- XI. **Synthesis of SiC nanoparticles by central composite design response surface methodology directed mechanical milling**  
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- XII. **Effect of Operating Light Exposure on Enamel Bonding Performances of Universal Adhesives**  
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- XIII. **Effect of nano alumina content on corrosion behavior and microstructure of Zn27/graphite/alumina hybrid nanocomposites**  
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- XV. **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.  
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- XVI. **Determining the effect of flake matrix size and Al<sub>2</sub>O<sub>3</sub> content on microstructure and mechanical properties of Al<sub>2</sub>O<sub>3</sub> nanoparticle reinforced Al matrix composites**  
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- XVIII. **Study on particle size and X-ray peak area ratios in high energy ball milling and optimization of the milling parameters using response surface method**  
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- XIX. **Bonding performance of universal adhesives to er,cr:YSGG laser-irradiated enamel**  
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- XX. **Paste backfill of high-sulphide mill tailings using alkali-activated blast furnace slag: Effect of activator nature, concentration and slag properties**  
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- XXI. **Corrosion and wear behavior of functionally graded Al<sub>2</sub>O<sub>3</sub>/SiC composites produced by hot pressing and consolidation**  
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- XXII. **Development and characterization of bronze-Cr-Ni composites produced by powder metallurgy**  
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- XXIII. **NEW COATING TECHNIQUE FOR Al-B<sub>4</sub>C COMPOSITE COATINGS BY MECHANICAL MILLING AND COMPOSITE COATING**  
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- XXV. **Synthesis and characterization of hybrid nanocomposite powders via mechanical alloying**  
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ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.  
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- XXVII. **SYNTHESIS AND CHARACTERIZATION OF HYBRID NANOCOMPOSITE POWDERS VIA MECHANICAL ALLOYING**  
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- XXVIII. **Effects of a new pre-milling coating process on the formation and properties of an Fe-Al intermetallic coating**  
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- XXIX. **Effect of process parameters on the formation of Fe-Al intermetallic coating fabricated by mechanical alloying**  
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- XXX. **Microstructure and Abrasive Wear Behavior of CuSn10-Graphite Composites Produced by Powder Metallurgy**  
ÇANAKÇI A., ÇUVALCI H., VAROL T., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.  
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- XXXI. **Microstructure and properties of Fe-Al intermetallic coatings on the low carbon steel synthesized by mechanical alloying**  
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- XXXIII. **Determining the effect of process parameters on particle size in mechanical milling using the Taguchi method: Measurement and analysis**  
ÇANAKÇI A., ERDEMİR F., VAROL T., Patir A.  
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- XXXIV. **Formation of Fe-Al intermetallic coating on low-carbon steel by a novel mechanical alloying technique**  
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZKAYA S.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

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Yalçın E. D., Çanakçı A., Erdemir F.  
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- II. **Investigation of WEDM process parameters of Al-SiC-B4C composites using response surface methodology**  
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- VI. **Determination of Effect of B4C Content on Density and Tensile Strength of AA7075/ B4C Composite Produced via Powder Technology**  
Nazik C., Tarakçıoğlu N., ÖZKAYA S., ERDEMİR F., ÇANAKÇI A.  
International Journal of Materials, Mechanics and Manufacturing, cilt.4, sa.4, ss.251-254, 2015 (Hakemli Dergi)
- VII. **Microstructure and Properties of Al-B4C Functionally Graded Materials Produced by Powder Metallurgy Method**  
ÇANAKÇI A., VAROL T., ÖZKAYA S., ERDEMİR F.  
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- VIII. **Synthesis of Al-B4C composite coating on low carbon steel by mechanical alloying method**  
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZKAYA S., Dalmış R.  
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- IX. **Microstructure and Properties of Al-B4C Functionally Graded Materials Produced by Powder Metallurgy Method**  
ÇANAKÇI A., VAROL T., ÖZKAYA S., ERDEMİR F.  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Microstructure and Mechanical Properties of Al2024-SiC Nanocomposites**  
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- II. **THE EFFECT OF BALL MILLING TIME ON THE PROPERTIES OF SILVER COATED COPPER MATERIALS PRODUCED BY POWDER METALLURGY**  
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- III. **Consolidation and Investigation of Properties of Hydroxyapatit-316L Stainless Steel Composites**  
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- IV. **Characterization and Mechanical Properties of Al2024-SiC Nanocomposites Fabricated by Mechanical Alloying**  
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- V. **DETERMINING OF THE EFFECT OF HEAT TREATMENT PARAMETER ON THE GRAIN SIZE OF AISI 316L STAINLESS STEEL USING TAGUCHI METHOD**  
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- VII. **Microstructure and some mechanical properties of Al2024-B4C composite fabricated by powder metallurgy**  
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## **Metallurgy**

KARABACAK A. H., ÇANAĞCI A., ERDEMİR F., VAROL T., YALÇIN E. D.

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- IX. **THE EFFECT OF PROCESS PARAMETERS ON SPECIFIC SURFACE AREA OF B4C POWDERS IN MECHANICAL MILLING**  
ERDEMİR F.  
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- X. **Resistance of ZA27 Matrix Reinforced with Nanographene Particle**  
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- XI. **metal köpükler**  
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- XII. **Effects of Nitrocarburizing on the Corrosion Behavior of AISI 4140 Steel**  
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- XIII. **Effect of CNT Content on the Synthesis and Characterization of Copper CNT Composites Fabricated By Ball Milling**  
VAROL T., ÇANAĞCI A., ERDEMİR F.  
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- XIV. **Development of surface response methodology for optimization of process parameters on the formation of Fe Al intermetallic coating**  
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- XV. **Development of response surface methodology for optimization of process parameters on the formation of Fe Al intermetallic coating**  
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- XVI. **EFFECT OF MECHANICAL ALLOYING ON CORROSION BEHAVIOUR OF AlCuMg B 4 C NANOCOMPOSITES**  
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- XVII. **Tribological performance under dry sliding conditions of copper-graphene nanocomposites**  
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- XVIII. **TRIBOLOGICAL PERFORMANCE UNDER DRY SLIDING CONDITIONS OF COPPER-GRAPHENE NANOCOMPOSITES**  
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- XIX. **Corrosion Behavior of AlCuMg B4C Nanocomposites Produced by Powder Metallurgy**  
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- XX. **CORROSION BEHAVIOR OF FUNCTIONALLY GRADED Al2O3/ B4C-SiC HYBRID COMPOSITES**  
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- XXI. **Corrosion Behaviour of AlCuMg B4C Nanocomposites Produced by Powder Metallurgy Method**  
ÖZKAYA S., ÇANAĞCI A., VAROL T., ERDEMİR F.  
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- XXII. **Determination of Effect of B4C Content on Density and Tensile Strength of AA7075 B4C Composite**

### **Produced via Powder Technology**

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### **XXIII. International Porous Powder Materials Symposium and Exhibition PPM2015**

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YALÇIN E. D., ÇANAKÇI A., ÖZKAYA S., ERDEMİR F.

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### **XXV. Kars bölgesinde aile tipi işletmelerdeki ineklerde reproduktif sorunların belirlenmesi**

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### **XXVII. Abresive wear behavior of powder metalurgy CuSn10 Graphite metal matrix composites produced by powder metallurgy**

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### **XXVIII. Sinterleme parametrelerinin moNel 400 alaşımı tozundan üretilmiş parçaların mekanik özelliklerine etkisi**

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## **Desteklenen Projeler**

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## **Metrikler**

Yayın: 147

Atf (WoS): 656

Atf (Scopus): 774

H-İndeks (WoS): 15

H-İndeks (Scopus): 17

## **Kongre ve Sempozyum Katılımı Faaliyetleri**

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13.ULUSLARARASI MALZEME SEMPOZYUMU, Katılımcı, Denizli, Türkiye, 2010

## **Akademi Dışı Deneyim**

Karadeniz Teknik Üniversitesi