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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 Al2O3/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

- I. **Development of Highly Sensitive Voltammetric Methods for the Determination of Antihistamine Drug Cetirizine Using A Poly(Bromocresol Purple) Film-Based Electrochemical Sensor**
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- II. **Evolution of Morphology, Particle Size and Oxidation Resistance of Recycled Ti-6Al-4V Powders Prepared by Planetary Ball Milling**
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- III. **Experimental analysis of anodic coating process parameters of Al 5754 alloy by response surface method**
Celik I., ERDEMİR F., Coruhlu I.
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- IV. **SS316L/Al2O3 functionally graded material for potential biomedical applications**
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- V. **Effect of fuel type on pseudocapacitance behaviour of CuO nanoparticles synthesized by solution combustion method**
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BULLETIN OF MATERIALS SCIENCE, cilt.45, sa.4, 2022 (SCI-Expanded)
- VI. **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.
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- VII. **Evaluation of microstructure, mechanical, and corrosion properties of SS316L/Al2O3 composites produced by hot pressing**
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- VIII. **Electroless nickel-phosphorus coated expanded graphite paper: Binder-free, ultra-thin, and low-cost electrodes for high-performance supercapacitors**
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- IX. **Influence of fluorine doping of zinc oxide on its electrochemical performance in supercapacitors**
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- X. **Effect of TiN, TiAlCN, AlCrN, and AlTiN ceramic coatings on corrosion behavior of tungsten carbide tool**
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JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, cilt.57, sa.1, ss.263-273, 2021 (SCI-Expanded)
- XI. **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.
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- XII. **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.
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- XIII. **Synthesis of SiC nanoparticles by central composite design response surface methodology directed mechanical milling**
ERDEMİR F., VAROL T., ÇANAKÇI A.

- MICRO & NANO LETTERS, cilt.15, sa.3, ss.187-190, 2020 (SCI-Expanded)
- XIV. **Effect of Operating Light Exposure on Enamel Bonding Performances of Universal Adhesives**
Ayar M. K., ERDEMİR F.
MATERIALS SCIENCE-MEDZIAGOTYRA, cilt.26, sa.3, ss.352-357, 2020 (SCI-Expanded)
- XV. **Effect of nano alumina content on corrosion behavior and microstructure of Zn27/graphite/alumina hybrid nanocomposites**
GÜLER O., ERDEMİR F., ÇELEBİ M., ÇUVALCI H., CANAK A.
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- XVI. **Repair of aged bulk-fill composite with posterior composite: Effect of different surface treatments**
Ayar M. K., Guven M. E., BURDUROĞLU H. D., ERDEMİR F.
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- XVII. **Enhancement of Wear and Corrosion Resistance of Zn27/Nanographene Composites Produced by Powder Metallurgy**
YALÇIN E. D., ÇANAKÇI A., ERDEMİR F., ÇUVALCI H., KARABACAK A. H.
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- XVIII. **Determining the effect of flake matrix size and Al₂O₃ content on microstructure and mechanical properties of Al₂O₃ nanoparticle reinforced Al matrix composites**
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- XIX. **Artificial neural network-based prediction technique for coating thickness in Fe-Al coatings fabricated by mechanical milling**
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- XX. **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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Measurement: Journal of the International Measurement Confederation, cilt.112, ss.53-60, 2017 (SCI-Expanded)
- XXI. **Bonding performance of universal adhesives to er,cr:YSGG laser-irradiated enamel**
Ayar M. K., ERDEMİR F.
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- XXII. **Paste backfill of high-sulphide mill tailings using alkali-activated blast furnace slag: Effect of activator nature, concentration and slag properties**
CİHANGİR F., ERÇIKDI B., KESİMAL A., DEVECİ H., ERDEMİR F.
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- XXIII. **Corrosion and wear behavior of functionally graded Al₂O₃/SiC composites produced by hot pressing and consolidation**
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- XXIV. **Development and characterization of bronze-Cr-Ni composites produced by powder metallurgy**
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- XXV. **Synthesis and characterization of hybrid nanocomposite powders via mechanical alloying**
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- XXVI. **New Coating Technique for Al-B₄C Composite Coatings by Mechanical Milling and Composite Coating**
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S.
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- XXVII. **NEW COATING TECHNIQUE FOR Al-B₄C COMPOSITE COATINGS BY MECHANICAL MILLING AND COMPOSITE COATING**
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S.

- POWDER METALLURGY AND METAL CERAMICS, ss.672-678, 2015 (SCI-Expanded)
- XXVIII. **Synthesis and Characterization of Hybrid Nanocomposite powders via Mechanical Alloying**
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- XXIX. **SYNTHESIS AND CHARACTERIZATION OF HYBRID NANOCOMPOSITE POWDERS VIA MECHANICAL ALLOYING**
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.
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- XXX. **Effects of a new pre-milling coating process on the formation and properties of an Fe-Al intermetallic coating**
ÇANAKÇI A., ERDEMİR F., VAROL T., Dalmis R., ÖZKAYA S.
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- XXXI. **Effect of process parameters on the formation of Fe-Al intermetallic coating fabricated by mechanical alloying**
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZKAYA S.
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- XXXII. **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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- XXXIII. **Microstructure and properties of Fe-Al intermetallic coatings on the low carbon steel synthesized by mechanical alloying**
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S., Mindivan H.
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- XXXIV. **Synthesis of novel CuSn10-graphite nanocomposite powders by mechanical alloying**
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- XXXV. **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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- XXXVI. **Formation of Fe-Al intermetallic coating on low-carbon steel by a novel mechanical alloying technique**
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- XXXVII. **Production of rapidly solidified Cu-Sn ribbons by water jet cooled rotating disc method**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Wear and Mechanical Behavior of ZA27 Alloy Reinforced with B4C Produced by Powder Metallurgy Method**
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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- International Journal of Lightweight Materials and Manufacture, cilt.3, sa.2, ss.127-135, 2020 (Scopus)
- III. **Investigation of WEDM process parameters of Al-SiC-B4C composites using response surface methodology**
Kumar S. S., ERDEMİR F., VAROL T., Thirumalai K. S., Uthayakumar M., ÇANAĞCI A.
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- IV. **The effects of cavity disinfection on the nanoleakage of compomer restorations: an in vitro study**
Arslan I., Baygın Ö., Tüzüner T., Erdemir F., Çanakçı A., Korkmaz F. M.
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- V. **The influence of process parameters on the formation of Al coating on steel by planetary ball-milling**
ERDEMİR F.
Eskişehir Technical University Journal of Science and Technology-A Applied Sciences and Engineering, cilt.19, sa.3, ss.748-755, 2018 (Hakemli Dergi)
- 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., ÇANAĞCI 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**
ÇANAĞCI A., VAROL T., ÖZKAYA S., ERDEMİR F.
Universal Journal of Materials Science, cilt.2, ss.90-95, 2014 (Hakemli Dergi)
- VIII. **Syntesis of Al-B4C composite coating on low carbon steel by mechanical alloying method**
ÇANAĞCI A., ERDEMİR F., VAROL T., ÖZKAYA S., Dalmış R.
Usak University Journal of Material Sciences, sa.1, ss.15-22, 2014 (Hakemli Dergi)
- IX. **Microstructure and Properties of Al-B4C Functionally Graded Materials Produced by Powder Metallurgy Method**
ÇANAĞCI A., VAROL T., ÖZKAYA S., ERDEMİR F.
Universal Journal of Materials Science, sa.5, ss.90-95, 2014 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Evaluation of Wear Behavior of Al2024 Alloy Produced via Powder Metallurgy Using the Taguchi Method**
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- II. **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, Türkiye, 27 - 29 Haziran 2018, ss.788-797
- III. **THE EFFECT OF BALL MILLING TIME ON THE PROPERTIES OF SILVER COATED COPPER MATERIALS PRODUCED BY POWDER METALLURG**
VAROL T., ALVER Ü., GÜLER O., ERDEMİR F.
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- IV. **Consolidation and Investigation of Properties of Hydroxyapatit-316L Stainless Steel Composites**
ÖZKAYA S., ÇANAĞCI A., VAROL T., KARABACAK A. H., ÇELEBİ M., ERDEMİR F.
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- V. **Characterization and Mechanical Properties of Al2024-SiC Nanocomposites Fabricated by Mechanical Alloying**
KARABACAK A. H., ÇANAĞCI A., VAROL T., ERDEMİR F., ÖZKAYA S.

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- VI. **DETERMINING OF THE EFFECT OF HEAT TREATMENTPARAMETER ON THE GRAIN SIZE OF AISI 316L STAINLESS STEEL USING TAGUCHI METHOD**
ERDEMİR F., ÇANAKÇI A., VAROL T., YALÇIN E. D.
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- VII. **Operatör Işığının Ünsersal Adezivlerin Mineye Baęlanma Performanslarına Etkisi**
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- VIII. **Microstructure and some mechanical properties of Al2O3-B4C composite fabricated by powder metallurgy**
KARABACAK A. H., ÇANAKÇI A., ERDEMİR F., VAROL T., YALÇIN E. D.
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- IX. **Microstructure and Some Mechanical Properties of Al2O3-B4C Composites Fabricated by Powder Metallurgy**
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- X. **THE EFFECT OF PROCESS PARAMETERS ON SPECIFIC SURFACE AREA OF B4C POWDERS IN MECHANICAL MILLING**
ERDEMİR F.
3. International Porous and Powder Materials Symposium and exhibition, 12 - 15 Eylül 2017
- XI. **Resistance of ZA27 Matrix Reinforced with Nanographene Particle**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., ERDEMİR F., ÇELEBİ M.
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- XII. **metal köpükler**
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- XIII. **Effects of Nitrocarburizing on the Corrosion Behavior of AISI 4140 Steel**
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- XIV. **Effect of CNT Content on the Synthesis and Characterization of Copper CNT Composites Fabricated By Ball Milling**
VAROL T., ÇANAKÇI A., ERDEMİR F.
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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. **Devopment of surface response methodology for optimization of process parameters on the formation of Fe Al intermetallic coating**
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- XVII. **EFFECT OF MECHANICAL ALLOYING ON CORROSION BEHAVIOUR OF AlCuMg B 4 C NANOCOMPOSITES**
ÖZKAYA S., ÇANAKÇI A., ERDEMİR F., VAROL T.
14.ULUSLARASI KOROZYON SEMPOZYUMU, 5 - 07 Ekim 2016, ss.526-530
- XVIII. **Tribological perfrmance under dry sliding conditions of copper-graphene nanocomposites**
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- XIX. **TRIBOLOGICAL PERFORMANCE UNDER DRY SLIDING CONDITIONS OF COPPER-GRAPHENE**

NANOCOMPOSITES

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- XX. **Corrosion Behavior of AlCuMg B4C Nanocomposites Produced by Powder Metallurgy**
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- XXI. **CORROSION BEHAVIOR OF FUNCTIONALLY GRADED Al2O3/ B4C-SiC HYBRID COMPOSITES**
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XIV. INTERNATIONAL CORROSION SYMPOSIUM, 5 - 07 Eylül 2016
- XXII. **Corrosion Behaviour of AlCuMg B4C Nanocomposites Produced by Powder Metallurgy Method**
ÖZKAYA S., ÇANAKÇI A., VAROL T., ERDEMİR F.
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- XXIII. **Determination of Effect of B4C Content on Density and Tensile Strength of AA7075 B4C Composite Produced via Powder Technology**
NAZİK C., TARAKÇIOĞLU N., ÖZKAYA S., ERDEMİR F., ÇANAKÇI A.
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- XXIV. **International Porous Powder Materials Symposium and Exhibition PPM2015**
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- XXV. **B4C VE GRAFEN NANO PARÇACIKLARI İLE GÜÇLENDİRİLMİŞ ZA27 ALAŞIMININ MİKRO YAPISI VE AŞINMA DAVRANIŞLARININ İNCELENMESİ**
YALÇIN E. D., ÇANAKÇI A., ÖZKAYA S., ERDEMİR F.
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- XXVI. **Kars bölgesinde aile tipi işletmelerdeki ineklerde reproduktif sorunların belirlenmesi**
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- XXVII. **Determination of Effect of B4C content of B4C on density and tensile strength of aa7070 B4C composite produced via powder technology**
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Al2024/B4C kompozitlerin üretimi, mekanik ve korozyon davranışının incelenmesi, 2015 - 2016

Metrikler

Yayın: 150

Atıf (WoS): 708

Atıf (Scopus): 837

H-İndeks (WoS): 17

H-İndeks (Scopus): 17

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