

Lect. PhD EMRE DENİZ YALÇIN

Personal Information

Office Phone: [+90 462 377 8170](tel:+904623778170)

Fax Phone: [+90 462 752 2630](tel:+904627522630)

Email: emredenizyalcin@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr//emredenizyalcin>

Address: KTÜ Abdullah Kanca MYO Çamburnu- Sürmene- Trabzon

International Researcher IDs

ORCID: 0000-0001-9691-1017

Publons / Web Of Science ResearcherID: AAM-7999-2021

ScopusID: 57193847795

Yoksis Researcher ID: 26917

Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2011 - 2018

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2007 - 2010

Undergraduate, Mustafa Kemal Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, Turkey 2001 - 2005

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, TÜBİTAK 2237-B MÜHENDİSLİK PROJE YAZMA EĞİTİMİ, KARADENİZ TEKNİK ÜNİVERSİTESİ, 2018

Education Management and Planning, Hidrolik Pnömatik Sistemler, Festo Didaktik Endüstriyel Akademi, 2014

Education Management and Planning, ENERJİ VERİMLİLİĞİ, ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI, 2011

Education Management and Planning, YAPI DENETİMİ UYGULAMALARI, ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI, 2010

Dissertations

Doctorate, ZA27/GRAFEN/B4C NANOKOMPOZİTLERİN TOZ METALURJİSİ YÖNTEMİ İLE ÜRETİLMESİ VE ÖZELLİKLERİNİN İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2018

Postgraduate, AA5754 VE AA7075 ALÜMİNYUM ALAŞIMLARININ SÜRTÜNME KARIŞTIRMA KAYNAK YÖNTEMİ İLE KAYNAK EDİLEBİLİRLİĞİNİN İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Entitüsü, Makine Mühendisliği, 2010

Research Areas

Mechanical Engineering, Metallurgical and Materials Engineering, Material science and engineering, Corrosion and

Academic Titles / Tasks

Lecturer PhD, Karadeniz Technical University, Abdullah Kanca Myo, Makine Ve Metal , 2018 - Continues

Lecturer, Karadeniz Technical University, Makine Ve Metal, 2011 - 2018

Engineer, 2009 - 2011

Research Assistant, Karadeniz Technical University, Sürmene Deniz Bilimleri Fakültesi, 2006 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **Fabrication of NanoSiC-Reinforced Al2024 Matrix Composites by a Novel Production Method**
VAROL T., ÇANAKÇI A., YALÇIN E. D.
Arabian Journal for Science and Engineering, vol.42, no.5, pp.1751-1764, 2017 (SCI-Expanded)
- VI. **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.
POWDER METALLURGY AND METAL CERAMICS, vol.53, pp.275-287, 2014 (SCI-Expanded)
- VII. **Synthesis of novel CuSn10-graphite nanocomposite powders by mechanical alloying**
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.
MICRO & NANO LETTERS, vol.9, no.2, pp.109-112, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Tribological Applications and Mechanical Properties of Zinc-Aluminium (ZA40)/Multi-Wall Carbon Nanotube (MWCNT) Composite Alloys**
Yalçın E. D., Çanakçı A.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.17, no.4, pp.620-627, 2023 (ESCI)
- II. **Effects of multi walled carbon nanotube and silicon carbide reinforcement on wear performance in zinc-aluminium alloys**
Yalçın E. D., Çanakçı A.
Nigde Omer Halisdemir University Journal of Engineering Sciences, vol.12, no.2, pp.588-596, 2023 (Peer-Reviewed)

- Journal)
- III. **Wear and Mechanical Behavior of ZA27 Alloy Reinforced with B4C Produced by Powder Metallurgy Method**
Yalçın E. D., Çanakçı A., Erdemir F.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.35, no.4, pp.1572-1583, 2022 (ESCI)
 - IV. **Silisyum Karbür (SiC) ile Güçlendirilmiş Çinko-Alüminyum (ZA40) Alaşımının Aşınma Parametrelerinin İncelenmesi**
Yalçın E. D., Çanakçı A.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.22, no.1, pp.207-213, 2022 (Peer-Reviewed Journal)
 - V. **Hegzagonal Bor Nitrür Takviyeli ZA40 Alaşımının Mekanik ve Aşınma Özelliklerinin Araştırılması**
Yalçın E. D., Çanakçı A.
Karadeniz Fen Bilimleri Dergisi, vol.11, no.2, pp.716-730, 2021 (Peer-Reviewed Journal)
 - VI. **CORROSION AND WEAR PERFORMANCE OF ZA27/GRAPHENE/B4C HYBRID NANOCOMPOSITES PRODUCED BY POWDER METALLURGY**
YALÇIN E. D., ÇANAKÇI A.
Acta Metallurgica Slovaca, vol.26, no.3, pp.126-131, 2020 (ESCI)
 - VII. **TOZ METALURJİSİ YÖNTEMİYLE ÜRETİLEN ZA27/GRAFEN NANOKOMPOZİTLERİN KOROZYON DAVRANIŞI**
YALÇIN E. D., ÇANAKÇI A.
Technological Applied Sciences, vol.13, no.2, pp.157-164, 2018 (Peer-Reviewed Journal)
 - VIII. **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, no.1, pp.29-33, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of XRD and SEM Analysis of Nickel and Hexagonal Boron Nitride Alloy Powders**
Yalçın E. D., Çanakçı A.
6. ULUSLARARASI AKADEMİK ARAŞTIRMALAR KONGRESİ (ICAR-6), Ankara, Turkey, 23 - 25 August 2021, vol.6, pp.35-41
- II. **Hegzagonal Bor Nitrür Katkılı ZA40 Alaşımının Aşınma Parametrelerinin İncelenmesi**
Yalçın E. D., Çanakçı A.
6. Uluslararası Bilimsel Çalışmalar Kongresi, İstanbul, Turkey, 26 - 28 July 2021, vol.6, pp.477-483
- III. **Wear Properties of ZA40/Ni Alloy Composites**
Yalçın E. D.
International Congress of Academic Research-(ICAR), Ankara, Turkey, 19 - 21 April 2021, vol.5, pp.91-96
- IV. **Nikel Katkılı ZA40 Alaşımının Aşınma Davranışlarının ve Mekanik Özelliklerinin İncelenmesi**
Yalçın E. D., Çanakçı A.
5. Uluslararası Bilimsel Çalışmalar Kongresi (UBCAK), Elazığ, Turkey, 15 - 17 March 2021, vol.5, pp.311-317
- V. **Production and Properties of Al2024- 2 wt. (SiC-B4C) Hybrid Nanocomposite**
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
- VI. **Corrosion Properties of ZA27/ B4C Composites Fabricated By Powder Metallurgy**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., ERDEMİR F.
2nd International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.27-32
- VII. **Microstructure and Some Mechanical Properties of Al2024-B4C 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

- VIII. **Korozyona Dirençli Zn - Al Alaşımlarının Toz Metalurjisi Yöntemi ile Üretilmesi**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H.
2nd International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.30-33
- IX. **Determining of the Effect of Heat Treatment Parameter on The Grain Size of AISI 316L Stainless Steel Using Taguchi Method**
ERDEMİR F., ÇANAKÇI A., VAROL T., YALÇIN E. D.
3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, İzmir, Turkey, 12 - 15 September 2017, pp.219-222
- X. **Electrical Contact Materials**
VAROL T., ÇANAKÇI A., ERDEMİR F., YALÇIN E. D.
3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, İzmir, Turkey, 12 - 15 September 2017, pp.242-247
- XI. **Resistance of ZA27 Matrix Reinforced with Nanographene Particle**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., ERDEMİR F., ÇELEBİ M.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017, pp.352-357
- XII. **Mechanical Properties of ZA27/Graphene Nanocomposites Produced by Powder Metallurgy Method**
YALÇIN E. D., ÇANAKÇI A., ERDEMİR F., VAROL T., ÇELEBİ M.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017, pp.371-374
- XIII. **Ceramic Foams**
VAROL T., ÇANAKÇI A., ERDEMİR F., ÇELEBİ M., YALÇIN E. D.
4th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND NANOTECHNOLOGY FOR NEXT GENERATION (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.370-380
- XIV. **The ballistic performance of Functionally Graded Al2024/B4C Nanocomposites**
ERDEMİR F., ÖZKAYA S., VAROL T., ÇANAKÇI A., YALÇIN E. D.
2nd International Defense Industry Symposium, Kırıkkale, Turkey, 6 - 08 April 2017, pp.650-656
- XV. **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
- XVI. **AN INVESTIGATION ON TRIBOLOGICAL PROPERTIES OF ZA27-B4C-Gr HYBRID NANOCOMPOZİTES**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., ERDEMİR F.
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, no.617, pp.15-20
- XVII. **PROPERTIES OF SILICONE CARBIDE REINFORCED NANOCOMPOSITES PREPARED BY FLAKE POWDER METALLURGY**
VAROL T., ÇANAKÇI A., YALÇIN E. D., ÖZKAYA S.
16. Uluslararası Malzeme Sempozyumu (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016, vol.1, pp.1346-1352
- XVIII. **Corrosion properties of Al2024/SiC composites compared with Al2024/B4C composites.**
ERDEMİR F., ÇANAKÇI A., ÖZKAYA S., YALÇIN E. D.
XIV. Uluslararası Korozyon Sempozyumu, Bayburt, Turkey, 5 - 07 October 2016, no.55, pp.23-26
- XIX. **Study on Microstructure and Wear Properties of B4C Nanoparticles reinforced ZA27 nanocomposites**
YALÇIN E. D., ÇANAKÇI A., ÖZKAYA S., VAROL T.
International Conference of Engineering and Natural Sciences, 24 - 28 May 2016, pp.2850-2853

- XX. **Development of response surface methodology for optimization of process parameters on the formation of Fe-AL intermetallic coating**
ERDEMİR F., ÇANAKÇI A., YALÇIN E. D., VAROL T., ÖZKAYA S.
1st International Mediterranean Science and Engineering Congress (IMSEC2016), Adana, Turkey, 26 - 28 September 2016, pp.2025-2030
- XXI. **Tribological Behaviours of ZA27/Graphene nanocomposites**
YALÇIN E. D., ÇANAKÇI A., ERDEMİR F., VAROL T.
3rd INTERNATIONAL CONFERENCE ON THERMOPHYSICAL AND MECHANICAL PROPERTIES OF ADVANCED MATERIALS, İzmir, Turkey, 1 - 03 September 2016, pp.48-49
- XXII. **WEAR PROPERTIES OF ZA 27 ALLOY AND ITS COMPOSITES REINFORCED WITH B4C AND GRAPHENE NANOPARTICLES**
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., VAROL T.
1st International Conference on Engeneering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016, pp.1-3
- XXIII. **STUDY ON MICROSTRUCTURES AND WEAR PROPERTIES OF ZA 27 ALLOY AND ITS COMPOSITES REINFORCED WITH B4C AND GRAPHENE NANOPARTICLES**
YALÇIN E. D., ÇANAKÇI A.
International Conference on Material Science and Technology in Cappadocia(IMSTEC 2016), Nevşehir, Turkey, 6 - 08 April 2016, pp.164
- XXIV. **B4C VE GRAFEN İLE TAKVİYE EDİLMİŞ ZA27 ALAŞIMININ MİKRO YAPISI VE AŞINMA DAVRANIŞLARI**
YALÇIN E. D., ÇANAKÇI A.
International Conference on Material Science and Technology in Cappadocia(IMSTEC 2016), Nevşehir, Turkey, 6 - 08 April 2016, pp.52
- XXV. **International Porous Powder Materials Symposium and Exhibition PPM2015**
ERDEMİR F., ÇANAKÇI A., VAROL T., ÖZKAYA S., YALÇIN E. D.
International Porous Powder Materials Symposium and Exhibition PPM2015 , 15 - 18 September 2015
- XXVI. **B4C ve Grafen Nano Parçacıkları ile Güçlendirilmiş ZA27 Alaşımının Mikro Yapısı ve Aşınma Davranışlarının İncelenmesi**
YALÇIN E. D., ÇANAKÇI A., ÖZKAYA S., ERDEMİR F.
MÜHENDİSLİKTE YENİ TEKNOLOJİLER SEMPOZYUMU MYT 2015, Bayburt, Turkey, 22 - 24 October 2015, pp.1-4
- XXVII. **THE EFFECT OF MILLING TIME AND PARTICLE SIZE ON THE FLAKE MORPHOLOGY AND FLAKE PARTICLE SIZE OF Al-Cu-Mg ALLOY POWDERS PREPARED VIA MECHANICAL MILLING**
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.
International Porous and Powder Materials Symposium and Exhibition-PPM 2015, İzmir, Turkey, 15 - 18 September 2015, pp.21-25
- XXVIII. **Mekanik Alaşımlama Yöntemi İle Cusn10-B4c-Grafit Hibrit Nanokompozit Tozlarının Üretimi**
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.
II. Ulusal Ege Kompozit Malzemeler Sempozyumu, İzmir, Turkey, 7 - 09 November 2013, pp.789-795
- XXIX. **Abrasive Wear Behavior Of Powder Metallurgy Cusn10-Graphite Metal Matrix Composites Produced By Powder Metallurgy**
ÇANAKÇI A., ÇUVALCI H., VAROL T., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.
International Porous Powder Materials Symposium & Exhibition, İzmir, Turkey, 3 - 06 September 2013, pp.58-62
- XXX. **AA5754 ve AA7075 Alüminyum Alaşımların Sürtünme Karıştırma Kaynağı ile Birleşebilirliğine Takım Baskı Kuvvetinin Etkileri**
YALÇIN E. D., küçükömeroğlu t.
13. Uluslar arası Malzeme Sempozyumu, Denizli, Turkey, 13 - 15 October 2010, pp.3
- XXXI. **Düşük Karbonlu Alaşımsız Çeliklerde Sürtünme Karıştırma Kaynağı**
YALÇIN E. D., küçükömeroğlu t.
Projepark 2009, Kayseri, Turkey, 7 - 08 May 2009, pp.1

Supported Projects

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: 47

Citation (WoS): 118

Citation (Scopus): 128

H-Index (WoS): 5

H-Index (Scopus): 5

Non Academic Experience

ÇEVRE VE SEHİRCİLİK BAKANLIĞI ARTVİN İL MÜDÜRLÜĞÜ