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Öğrenim Bilgisi

Doktora 2014 - 2020	Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Türkiye
Yüksek Lisans 2012 - 2014	Karadeniz Teknik Üniversitesi, -, Makina Mühendisliği, Türkiye
Lisans 2007 - 2012	Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Türkiye

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Demir Yolu Taşıtları İçin Asbest İçermeyen Organik Esaslı Kompozit Balata Bileşimlerinin Geliştirilmesi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, -, 2020

Yüksek Lisans, Aşırı Plastik Deformasyon ve Yaşlandırma İşlemlerinin Bileşik Etkisi İle Yüksek Performanslı Cu-Cr-Zr Elektrot Malzemesinin Geliştirilmesi, Karadeniz Teknik Üniversitesi, Malzeme, Makina Mühendisliği, 2014

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi 2021 - Devam Ediyor	Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği
Araştırma Görevlisi 2014 - 2020	Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği

Desteklenen Projeler

1. PÜRÇEK G., DEMİRTAŞ M., YANAR H., Yükseköğretim Kurumları Destekli Proje, Demir yolu taşıtları için komposit fren balata bileşiminin geliştirilmesi, 2018 - 2022
2. Yanar H., Pürçek G., TÜBİTAK Projesi, Kara ve Demir Yolu Taşıtlarına Yönelik Yeni Bir Balata Test Sisteminin Geliştirilmesi, 2020 - 2021
3. Yanar H., Pürçek G., KOSGEB, Servo Sistem Tahrikli ve PLC Kontrollü Çonk Fonksiyonlu Bir Sürtünme Aşınma ve Yağlama Test Cihazının Arayüz Yazılımı İle Birlikte Geliştirilmesi, 2019 - 2020
4. Pürçek G., Çakır O., TÜBİTAK Projesi, Çok Fonksiyonlu Özgün Bir Tribolojik Test Sisteminin Geliştirilmesi, 2017 - 2019
5. Yanar H., Pürçek G., TÜBİTAK Projesi, Pin-on-disk tipi tribolojik test sisteminin modüler tarzda geliştirilerek ticarileşme potansiyelinin artırılması, 2015 - 2016
6. Yanar H., Pürçek G., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Ulusal Bor Araştırma Enstitüsü (BOREN): Asbestsiz Kompozit Fren Pabuçlarında Bor (Bor Nitrür) Kullanımının Tribolojik Özelliklere Etkisinin İncelenmesi, 2014 - 2016
7. Pürçek G., Sanayi Tezleri Projesi, Aşırı plastik deformasyon ve yaşlandırma işlemlerinin bileşik etkisi ile yüksek performanslı Cu-Cr-Zr elektrot malzemesinin geliştirilmesi ve bunun için yarı mamul pilot üretim sisteminin oluşturulması, 2013 - 2015
8. YANAR H., Diğer Resmi Kurumlarca Desteklenen Proje, Çok amaçlı bir sürtünme ve aşınma test sisteminin tasarım ve imalatı, 2013 - 2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Fatigue crack propagation anisotropy of an Al-Zn-Mg-Cu super-thick plate**
Wang H., Zhang Z., Hou J., Gong B., Liu H., Abedi H., PÜRÇEK G., YANAR H., Demirtas M., Zhang Z.
International Journal of Fatigue, cilt.187, 2024 (SCI-Expanded)
2. **Surface Modification of Additively Manufactured Inconel 718 Alloy by Low-Energy High-Current Electron Beam Irradiation**
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Advanced Engineering Materials, 2024 (SCI-Expanded)
3. **High-Cycle-Fatigue Anisotropy of an Aluminum Alloy Superthick Plate**
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4. **Enhancing mechanical and tribological properties of Ni3Al-15vol%TiC composite by high current pulsed electron beam irradiation**
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JOURNAL OF ALLOYS AND COMPOUNDS, cilt.898, 2022 (SCI-Expanded)
5. **Effect of hexagonal boron nitride (h-BN) addition on friction behavior of low-steel composite brake pad material for railway applications**
YANAR H., PÜRÇEK G., Demirtas M., Ayar H. H.
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6. **The mechanical compression performance of ultra-fine grained stainless steel pyramidal lattice core**
KULEYİN H., GÜMRÜK R., YANAR H., Demirtaş M., PÜRÇEK G.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, cilt.28, sa.10, ss.1073-1078, 2021 (SCI-Expanded)
7. **Microstructural, mechanical and tribological properties of ultrafine-grained Cu-Cr-Zr alloy processed by high pressure torsion**
Purcek G., Yanar H., Demirtas M., Shangina D. V., Bochvar N. R., Dobatkin S. V.
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8. **Effect of resin content on tribological behavior of brake pad composite material**
YANAR H., Ayar H. H., DEMİRTAŞ M., PÜRÇEK G.

INDUSTRIAL LUBRICATION AND TRIBOLOGY, cilt.72, sa.2, ss.195-202, 2018 (SCI-Expanded)

9. **High temperature superplasticity and deformation behavior of naturally aged Zn-Al alloys with different phase compositions**
Demirtas M., Kawasaki M., Yanar H., Purcek G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.730, ss.73-83, 2018 (SCI-Expanded)
10. **Effect of grain refinement and phase composition on room temperature superplasticity and damping capacity of dual-phase Zn-Al alloys**
DEMİRTAŞ M., ATLI K. C., YANAR H., Purce G.
JOURNAL OF MATERIALS RESEARCH, cilt.33, sa.8, ss.1032-1045, 2018 (SCI-Expanded)
11. **Influence of high pressure torsion-induced grain refinement and subsequent aging on tribological properties of Cu-Cr-Zr alloy**
PÜRÇEK G., YANAR H., Shangina D., Demirtas M., Bochvar N., Dobatkin S.
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12. **Enhancing the Damping Behavior of Dilute Zn-0.3Al Alloy by Equal Channel Angular Pressing**
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METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, sa.6, ss.2868-2876, 2017 (SCI-Expanded)
13. **Improvement of wear behaviour of titanium by boriding**
Kara G., Pürçek G., Yanar H.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, cilt.69, sa.1, ss.65-70, 2017 (SCI-Expanded)
14. **Effect of different processes on lamellar-free ultrafine grain formation, room temperature superplasticity and fracture mode of Zn-22Al alloy**
Demirtas M., PÜRÇEK G., YANAR H., ZHANG Z. J., ZHANG Z. F.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.663, ss.775-783, 2016 (SCI-Expanded)
15. **Influence of microalloying with zirconium on the structure and properties of Cu-Cr alloy after high pressure torsion**
SHANGINA D. V., BOCHVAR N. R., GORSHENKOV M. V., YANAR H., PÜRÇEK G., DOBATKIN S. V.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.650, ss.63-66, 2016 (SCI-Expanded)
16. **Optimization of strength, ductility and electrical conductivity of Cu-Cr-Zr alloy by combining multi-route ECAP and aging**
PÜRÇEK G., YANAR H., Demirtas M., ALEMDAĞ Y., SHANGINA D. V., DOBATKIN S. V.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.649, ss.114-122, 2016 (SCI-Expanded)
17. **Effect of equal-channel angular pressing on room temperature superplasticity of quasi-single phase Zn-0.3Al alloy**
Demirtas M., PÜRÇEK G., YANAR H., Zhang Z. J., Zhang Z. F.
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18. **Achieving room temperature superplasticity in Zn-5Al alloy at high strain rates by equal-channel angular extrusion**
Demirtas M., PÜRÇEK G., YANAR H., ZHANG Z. J., Zhang Z. F.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.623, ss.213-218, 2015 (SCI-Expanded)
19. **Improvement of high strain rate and room temperature superplasticity in Zn-22Al alloy by two-step equal-channel angular pressing**
DEMIRTAS M., PÜRÇEK G., YANAR H., ZHANG Z. J., ZHANG Z. F.
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20. **Effect of precipitation on mechanical and wear properties of ultrafine-grained Cu-Cr-Zr alloy**
PÜRÇEK G., YANAR H., Saray O., Kraman I., Maier H. J.

Diğer Dergilerde Yayınlanan Makaleler

- 1. Effect of long-term natural aging on microstructure and room temperature superplastic behavior of UFG/FG Zn-Al alloys processed by ECAP**
Demirtaş M., Yanar H., Purçek G.
Letters on Materials, cilt.8, ss.532-537, 2018 (Scopus)
- 2. Effect of friction stir processing on tribological properties of Al-Si alloys**
AKTARER S. M., SEKBAN D. M., YANAR H., PÜRÇEK G.
IOP Conf. Series: Materials Science and Engineering, sa.174, 2017 (Hakemli Dergi)
- 3. Improvement the wear behavior of low carbon steels by friction stir processing**
SEKBAN D. M., AKTARER S. M., YANAR H., ALSARAN A., PÜRÇEK G.
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- 4. Effect of Chemical Composition and Grain Size on RT Superplasticity of Zn-Al alloys processed by ECAP**
Demirtaş M., PÜRÇEK G., YANAR H., ZHANG Z. J., ZHANG Z. F.
Letters on materials, cilt.5, sa.3, ss.328-334, 2015 (ESCI)
- 5. Effect of Chemical Composition and Grain Size on RT Superplasticity of Zn-Al alloys processed by ECAP**
Demirtaş M., PÜRÇEK G., YANAR H., Zhang Z., Zhang Z.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 1. Effect of steel fiber addition on the mechanical and tribological behavior of the composite brake pad materials**
Yanar H., Pürçek G., Ayar H.
14th International Conference on Tribology, ROTRIB 2019, Cluj-Napoca, Romanya, 19 - 21 Eylül 2019, cilt.724
- 2. Effect Of Cashew Nut Shell Liquid (CNSL) On Tribological Behavior Of Brake Pad Composite**
YANAR H., AYAR H. H., PÜRÇEK G.
16th International Conference on Tribology (SERBIATRIB19), Kragujevac, Sırbistan Ve Karadağ, 15 - 17 Mayıs 2019, ss.1
- 3. Development Of A Multifunctional Tribometer: Design Concept**
PÜRÇEK G., YANAR H.
16th International Conference on Tribology (SERBIATRIB19), Kragujevac, Sırbistan Ve Karadağ, 15 - 17 Mayıs 2019, ss.1
- 4. Mechanical Properties of Multi-Directional Forged Al-7Si-4Zn-3Cu Alloy**
ALEMDAĞ Y., KARABIYIK S., YANAR H., PÜRÇEK G.
13th International Conference on Superplasticity in Advanced Materials, (ICSAM 2018), St. Petersburg, Rusya, 19 Eylül - 22 Ağustos 2018, cilt.385, ss.250-255
- 5. Effect of Multi-Directional Forging on Tribological Properties of Al-7Si-4Zn-3Cu alloy**
ALEMDAĞ Y., KARABIYIK S., YANAR H., PÜRÇEK G.
13th International Conference on Superplasticity in Advanced Materials, (ICSAM 2018), St. Petersburg, Rusya, 19 - 22 Ağustos 2018, ss.12
- 6. A New Multi-Functional Tribometer: Application of Block-on-Ring Test Module**
YANAR H., Demirtaş M., PÜRÇEK G.
2th International Conference On Tribology (Turkeytrib'18), İstanbul, Türkiye, 18 - 20 Nisan 2018, ss.1
- 7. Effect of Resin Content on Friction and Wear Behaviour of Non-Asbestos Composite Friction**

Material Used in Brake Pad

YANAR H., AYAR H. H., Demirtaş M., PÜRÇEK G.

2th International Conference On Tribology (Balkantrib'18), İstanbul, Türkiye, 18 - 20 Nisan 2018, ss.1

8. **Room temperature superplasticity in fine/ultrafine-grained Zn-Al alloys with different phase compositions**
Demirtaş M., YANAR H., Saray O., PÜRÇEK G.
13th International Conference on Superplasticity in Advanced Materials, ICSAM 2018, Petersburg, Rusya, 19 - 22 Ağustos 2018, ss.72-77
9. **Superplastic-Like Behavior at Room Temperature in Two-Step Rolled Zn-Al Alloys**
DEMİRTAŞ M., YANAR H., PÜRÇEK G.
International Conference on Advanced Engineering Technologies (ICADET'17), 21 - 23 Eylül 2017
10. **Severe Plastic Deformation Induced Dynamic Precipitation in Cu-Cr-Zr Alloy**
YANAR H., PÜRÇEK G., DEMİRTAŞ M., SHANGINA D., DOBATKIN S.
EUROMAT 2017, European Congress and Exhibition on Advanced Materials and Processes, 17 - 22 Eylül 2017
11. **Relationship between superplasticity and damping capacity in naturally aged Zn-Al alloys**
DEMİRTAŞ M., ATLI K. C., YANAR H., PÜRÇEK G.
European Congress and Exhibitaion on Advanced Materials and Processes (EUROMAT 2017), 17 - 22 Eylül 2017
12. **İki aşamalı hadde işleme tabi tutulan Zn-Al alaşımlarında oda sıcaklığında süperplastisite-benzeri davranış**
Demirtaş M., YANAR H., PÜRÇEK G.
International Conferance on Advances Engineering Technogies (ICADET), Bayburt, Türkiye, 21 - 23 Eylül 2017, ss.1
13. **Effect of Ultrafine-Grained Formation and Subsequent Aging on Structural, Mechanical and Tribological Properties of Cu-Cr-Zr Alloy**
SHANGINA D. V., BOCHVAR N. R., PÜRÇEK G., YANAR H., DOBATKIN S. V.
European Congress and Exhibitaion on Advanced Materials and Processes (EUROMAT 2017), Thessaloniki, Yunanistan, 17 - 22 Eylül 2017, ss.1
14. **Plastic Deformation Induced Dynamic Precipitation in Cu-Cr-Zr Alloy**
YANAR H., PÜRÇEK G., DEMIRTAS M., SHANGINA D. V., DOBATKIN S. V.
European Congress and Exhibitaion on Advanced Materials and Processes (EUROMAT 2017), Thessaloniki, Yunanistan, 17 - 22 Eylül 2017, ss.1
15. **A new multifunctional tribometer with high temperature module**
YANAR H., PÜRÇEK G., Demirtaş M.
9. International conference on tribology (BalkanTRib'17), Nevşehir, Türkiye, 13 - 15 Eylül 2017, ss.65
16. **Effect of Fiber Content on the Friction and Wear Performance of Non-asbestos Composites Used in Brake Pads**
YANAR H., Demirtaş M., AYAR H. H., PÜRÇEK G.
9th International conference on tribology (Balkantrib17), Nevşehir, Türkiye, 13 - 15 Eylül 2017, ss.59
17. **Effect of testing temperature on tribological properties of a Cu-Cr-Zr alloy in different microstructural conditions**
YANAR H., SHANGINA D. V., Demirtaş M., PÜRÇEK G., DOBATKIN S. V.
9th International conference on tribology (Balkantrib17), Nevşehir, Türkiye, 13 - 15 Eylül 2017, ss.40
18. **Superplastic behaviors of severely deformed and naturally aged Zn-Al alloys at room and elevated temperatures**
Demirtaş M., Kawasaki M., YANAR H., PÜRÇEK G.
European Congress and Exhibitaion on Advanced Materials and Processes (EUROMAT 2017), Thessaloniki, Yunanistan, 12 - 17 Eylül 2017, ss.1
19. **Optimization of RT superplasticity of UFG Zn-22Al alloy by applying ECAP at different temperatures and phase regions**
Demirtaş M., YANAR H., PÜRÇEK G.
7th International Conference on Nanomaterials by Severe Plastic Deformation, Sydney, Avustralya, 2 - 07 Temmuz

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20. **Effect of Hexagonal Boron Nitride (h-BN) Addition on the Friction and Wear Characteristics of Non-asbestos Composites Used in Brake Pads**
YANAR H., AYAR H. H., Demirtaş M., PÜRÇEK G.
IBERTRIB 2017 – IX Iberian Conference on Tribology, Guimarães, Portekiz, 12 - 13 Haziran 2017, ss.1
21. **Enhanced Mechanical and Service Properties of Ultrafine- Grained Copper-Based Alloys with Cr, Zr, and Hf Additives**
DOBATKIN S. V., SHANGINA D. V., BOCHVAR N. R., Terent'ev V. F., Prosvirnin D. I., Putinceva M. V., PÜRÇEK G., YANAR H., Raab G.
14th International Congress: Machines, Technologies and Materials'17, Borovetz, Bulgaristan, 15 - 18 Mart 2017, ss.1
22. **Optimization of RT superplasticity of UFG Zn-22Al alloy by applying ECAP at different temperatures and phase regions**
Demirtaş M., YANAR H., PÜRÇEK G.
7th International Conference on Nanomaterials by Severe Plastic Deformation, Sydney, Avustralya, 2 - 07 Temmuz 2017, cilt.194
23. **Effect of High-Pressure Torsion on Tribological Properties of Cu-Cr-Zr alloy Under Reciprocating Dry Conditions**
PÜRÇEK G., YANAR H., SHANGINA D. V., DOBATKIN S. V.
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24. **Effect of Accumulative Strain on Room Temperature Superplasticity of Dilute Zn-0.3Al Alloy**
Demirtaş M., YANAR H., PÜRÇEK G.
16th International Materials Symposium (IMSP 2016), Denizli, Türkiye, 12 - 14 Ekim 2016, ss.1
25. **Effect of natural aging on RT and HSR superplasticity of ultrafine grained Zn-22Al alloy**
Demirtaş M., PÜRÇEK G., YANAR H., Zhang Z., Zhang Z.
12th International Conference on Superplasticity in Advanced Materials, ICSAM 2015, Tokyo, Japonya, 7 - 11 Eylül 2015, ss.320-325
26. **Comparison Of Wear And Friction Properties Of A Nickel Aluminum Bronze CuAl10Ni5Fe4 And Tin Bronze CuSn11**
Turhan K., YANAR H., feriha b., PÜRÇEK G.
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27. **Improvement of wear behaviour of titanium by boriding**
KARA G., PÜRÇEK G., YANAR H.
TURKEYTRIB 2015 1st International Conference on Tribology, İstanbul, Türkiye, 7 - 09 Ekim 2015, ss.1
28. **Optimization of RT superplasticity of UFG Zn-22Al alloy by applying ECAP at different temperatures and phase regions**
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29. **Improvement in Room-Temperature Damping Capacity of Zn-22Al Alloy by Ultrafine-Grain Formation**
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NanoSPD-6 (Nanomaterials by Severe Plastic Deformation), Metz, Fransa, 30 Haziran - 04 Temmuz 2014, ss.2
30. **Effect of aging on structural, mechanical and electrical properties of ultrafine-grained Cu-Cr-Zr alloy**
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31. **Developing an Ultrafine-Grained or Nanostructured Superplastic Zn-22Al Alloy for Seismic Damper Application**
Demirtaş M., PÜRÇEK G., SARAY O., YANAR H.
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32. **Development an ultra-high strength Cu-Cr-Zr alloy without notably sacrificing the ductility and electrical conductivity by dispersion of nano-sized precipitates inside ultrafine-grained microstructure**

YANAR H., PÜRÇEK G., SARAY O., Demirtaş M., KRAMAN I., MAIER H. J.
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Bilimsel Hakemlikler

TRIBOLOGY LETTERS, SCI Kapsamındaki Dergi, Şubat 2021
JOURNAL OF ASTM INTERNATIONAL, ESCI Kapsamındaki Dergi, Aralık 2020

Metrikler

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Araştırma Alanları

Triboloji , Kompozitler, Polimerik Malzemeler, Malzeme Karakterizasyonu, Metalik Malzemeler, Nanomalzemeler, Yapı-Özellik İlişkisi , Metal Dışı Malzeme Üretimi, Toz Metalurjisi

Girişimcilik Faaliyetleri

Diğer, Harun YANAR-UTS Mühendislik , 03 Nisan 2013, Sahibi
Limited, UTS Yazılım Mühendislik Hizmetleri San Tic. Ltd. Şti., 12 Şubat 2015, Kurucu Ortak

Akademi Dışı Deneyim

Şirket, Trabzon KTÜ Teknokent, UTS Yazılım Mühendislik Hizmetleri San. Tic. Ltd. Şti.