

Dr.Öğr.Üyesi MUHAMMET DEMİRTAŞ

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Türkiye 2012 - 2017

Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (İngilizce), Türkiye 2008 - 2012

Lisans, Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği (İngilizce), Türkiye 2003 - 2008

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Makina Mühendisliği, Konstrüksiyon ve İmalat, Malzeme, Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Malzeme Testi ve Kontrolü, Mekanik Özellikler, Malzeme Karakterizasyonu, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Recep Tayyip Erdoğan Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2019 - Devam Ediyor

Dr.Öğr.Üyesi, Bayburt Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - 2019

Araştırma Görevlisi, Bayburt Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2011 - 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Microstructural, mechanical and tribological characterization of Cu-Co-Ni-Be alloy processed via equal channel angular pressing**
DEMİRTAŞ M.
MATERIALS TODAY COMMUNICATIONS, cilt.28, 2021 (SCI İndekslerine Giren Dergi)
- II. **The mechanical compression performance of ultra-fine grained stainless steel pyramidal lattice core**
Kuleyin H., GÜMRÜK R., YANAR H., DEMİRTAŞ M., PÜRÇEK G.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, cilt.28, sa.10, ss.1073-1078, 2021 (SCI İndekslerine Giren Dergi)
- III. **Optimization of strength, ductility and wear resistance of low-carbon grade A shipbuilding steel by post-ECAP annealing**
DEMİRTAŞ M., Sekban D. M.
METALLURGICAL RESEARCH & TECHNOLOGY, cilt.118, sa.2, 2021 (SCI İndekslerine Giren Dergi)
- IV. **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.

Journal of Alloys and Compounds, cilt.816, 2020 (SCI Expanded İndekslerine Giren Dergi)

- V. **Effect of resin content on tribological behavior of brake pad composite material**
YANAR H., Ayar H. H. , Demirtas M., PÜRÇEK G.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, cilt.72, sa.2, ss.195-202, 2020 (SCI İndekslerine Giren Dergi)
- VI. **Room Temperature Superplasticity in Fine/Ultrafine Grained Materials Subjected to Severe Plastic Deformation**
Demirtas M., Purcek G.
MATERIALS TRANSACTIONS, cilt.60, sa.7, ss.1159-1167, 2019 (SCI İndekslerine Giren Dergi)
- VII. **High temperature superplasticity and deformation behavior of naturally aged Zn-Al alloys with different phase compositions**
Demirtas M., Kawasaki M., YANAR H., PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.730, ss.73-83, 2018 (SCI İndekslerine Giren Dergi)
- VIII. **Effect of grain refinement and phase composition on room temperature superplasticity and damping capacity of dual-phase Zn-Al alloys**
Demirtas M., Atli K. C. , YANAR H., Purce G.
JOURNAL OF MATERIALS RESEARCH, cilt.33, sa.8, ss.1032-1045, 2018 (SCI İndekslerine Giren Dergi)
- IX. **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. V. , Demirtas M., Bochvar N. R. , Dobatkin S. V.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.742, ss.325-333, 2018 (SCI İndekslerine Giren Dergi)
- X. **Enhancing the Damping Behavior of Dilute Zn-0.3Al Alloy by Equal Channel Angular Pressing**
Demirtas M., Atli K. C. , YANAR H., PÜRÇEK G.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, sa.6, ss.2868-2876, 2017 (SCI İndekslerine Giren Dergi)
- XI. **Optimization of RT superplasticity of UFG Zn-22Al alloy by applying ECAP at different temperatures and phase regions**
DEMİRTAŞ M., YANAR H., PÜRÇEK G.
IOP Conf. Series: Materials Science and Engineering, cilt.194, ss.1-6, 2017 (SCI İndekslerine Giren Dergi)
- XII. **Effects of grain size on room temperature deformation behavior of Zn-22Al alloy under uniaxial and biaxial loading conditions**
Cetin M. E. , Demirtas M., SOFUOĞLU H., CORA Ö. N. , PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.672, ss.78-87, 2016 (SCI İndekslerine Giren Dergi)
- XIII. **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 İndekslerine Giren Dergi)
- XIV. **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 İndekslerine Giren Dergi)
- XV. **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.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.644, ss.17-24, 2015 (SCI İndekslerine Giren Dergi)
- XVI. **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 İndekslerine Giren Dergi)

XVII. 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.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.620, ss.233-240, 2015 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **PROCESSING OF GRADE A LOW CARBON STEEL BY EQUAL CHANNEL ANGULAR PRESSING**
DEMİRTAŞ M.
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, cilt.9, sa.1, 2020 (Diğer Kurumların Hakemli Dergileri)
- II. **Effect of long-term natural aging on microstructure and room temperature superplastic behavior of UFG/FG Zn-Al alloys processed by ECAP**
DEMİRTAŞ M., YANAR H., PÜRÇEK G.
LETTERS ON MATERIALS, cilt.8, sa.4, ss.532-537, 2018 (ESCI İndekslerine Giren Dergi)
- III. **Experimental and Numerical Investigation of Thickness Distribution in Forming of Superplastic Zn-22Al Alloy**
ÇETİN M. E., DEMİRTAŞ M., PÜRÇEK G., CORA Ö. N., SOFUOĞLU H.
Academic Perspective Procedia, cilt.1, sa.1, ss.1034-1040, 2018 (Diğer Kurumların Hakemli Dergileri)
- IV. **Room Temperature Superplasticity in Fine/Ultrafine-Grained Zn-Al Alloys with Different Phase Compositions**
DEMİRTAŞ M., YANAR H., SARAY O., PÜRÇEK G.
Defect and Diffusion Forum, cilt.385, ss.72-77, 2018 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Mechanical and Tribological Behavior of Al-Si Alloy Processed via Two-Step ECAP**
DEMİRTAŞ M.
2. International Conference on Materials Science, Mechanical and Automotive Engineerings And Technology, 21 - 23 Haziran 2019
- II. **Mechanical Properties of Low Carbon Steel Processed by Equal Channel Angular Pressing**
DEMİRTAŞ M.
Fourth International Iron and Steel Symposium (UDCS'19), 4 - 06 Nisan 2019
- III. **Experimental and numerical investigation of thickness distribution in forming of superplastic Zn-22Al alloy**
ÇETİN M. E., DEMİRTAŞ M., PÜRÇEK G., CORA Ö. N., SOFUOĞLU H.
6th international semposium on innovative technologies in engineering and science, 9 - 11 Kasım 2018
- IV. **Effect of Resin Content on Friction and Wear Behaviour of NonAsbestos Composite Friction Material Used in Brake Pad**
YANAR H., AYAR H. H., DEMİRTAŞ M., PÜRÇEK G.
2th International Conference On Tribology (Turkeytrib'18), 18 - 20 Nisan 2018
- V. **A New Multi-Functional Tribometer: Application of Block-on-Ring Test Module**
YANAR H., DEMİRTAŞ M., PÜRÇEK G.
2th International Conference On Tribology (Turkeytrib'18), 10 - 20 Nisan 2018
- VI. **Room temperature superplasticity in fine/ultrafine-grained Zn-Al alloys with different phase compositions**
Demirtas 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

- VII. **Effect of Grain Size on Microhardness of Superplastic Zn-22Al**
ÇETİN M. E. , DEMİRTAŞ M., SOFUOĞLU H., CORA Ö. N. , PÜRÇEK G.
International Conference on Engineering Technologies, 7 - 09 Aralık 2017
- VIII. **İki aşamalı hadde işleme tabi tutulan Zn-Al alaşımlarında oda sıcaklığında süperplastisite-benzeri davranış**
DEMİRTAŞ M., YANAR H., PÜRÇEK G.
International Conference on Advanced Engineering Technologies, Bayburt Türkiye, 21 - 23 Eylül 2017
- IX. **Severe Plastic Deformation Induced Dynamic Precipitation in Cu-Cr-Zr Alloy**
YANAR H., PÜRÇEK G., DEMİRTAŞ M., SHANGINA D., DOBATKIN S.
EUROMAT2017, European Congress and Exhibition on Advanced Materials and Processes, 17 - 22 Eylül 2017
- X. **Relationship Between Superplasticity and Damping Capacity in Naturally Aged Zn-Al Alloys**
DEMİRTAŞ M., ATLI K. C. , YANAR H., PÜRÇEK G.
European Congress and exhibition on advanced materials and processes EUROMAT 2017, Thessaloniki, Yunanistan, 17 - 22 Eylül 2017
- XI. **Superplastic behaviors of severely deformed and naturally aged Zn-Al alloys at room and elevated temperatures**
DEMİRTAŞ M., MEGUMİ K., YANAR H., PÜRÇEK G.
European Congress and Exhibitaion on Advanced Materials and Processes (EUROMAT 2017), Thessaloniki, Yunanistan, 12 - 17 Eylül 2017
- XII. **A new multifunctional tribometer with high temperature module**
YANAR H., DEMİRTAŞ M., PÜRÇEK G.
9th INTERNATIONAL CONFERENCE ON TRIBOLOGY BALKANTRIB'17, Kapadokya Nevşehir, 13 - 15 Eylül 2017
- XIII. **Effect of Fiber Content on the Friction and Wear Performance of Non-asbestos Composites Used in Brake Pads**
YANAR H., DEMİRTAŞ M., AYAR H., PÜRÇEK G.
9th INTERNATIONAL CONFERENCE ON TRIBOLOGY, BALKANTRIB'17, Kapadokya Nevşehir, 13 - 15 Eylül 2017
- XIV. **Effect of testing temperature on tribological properties of a Cu-Cr-Zr alloy in different microstructural conditions**
YANAR H., SHANGINA D. V. , DEMİRTAŞ M., DOBATKIN S. V. , PÜRÇEK G.
9th INTERNATIONAL CONFERENCE ON TRIBOLOGY, BALKANTRIB'17, Kapadokya Nevşehir, 13 - 15 Eylül 2017
- XV. **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., DEMİRTAŞ M., PÜRÇEK G.
IX IBERIAN CONFERENCE on TRIBOLOGY, GUIMARÃES, PORTUGAL, 12 - 13 Haziran 2017
- XVI. **EFFECT OF ACCUMULATIVE STRAIN ON ROOM TEMPERATURE SUPERPLASTICITY OF DILUTE ZN 0 3AL ALLOY**
DEMİRTAŞ M., YANAR H., PÜRÇEK G.
16th International Materials Symposium IMSP'2016, 12 - 14 Ekim 2016
- XVII. **Effect of natural aging on RT and HSR superplasticity of ultrafine grained Zn-22Al alloy**
Demirtas 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
- XVIII. **Effect of Natural Aging on RT and HSR Superplasticity Of Ultrafine Grained Zn 22al Alloy**
DEMİRTAŞ 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
- XIX. **Süperplastik Zn 22al Alaşımında Ultra İnce Tane Oluşumunun Oda Sıcaklığındaki Şekillendirilebilirliğe Etkisinin Deneysel Ve Teorik Olarak İncelenmesi**
ÇETİN M. E. , DEMİRTAŞ M., SOFUOĞLU H., CORA Ö. N. , PÜRÇEK G.

19. Ulusal Mekanik Kongresi, Trabzon, Türkiye, 24 - 28 Ağustos 2015

XX. **High strain rate superplasticity at room temperature in two phase and quasi single phase Zn Al alloys**

DEMİRTAŞ M., PÜRÇEK G., YANAR H., ZHANG Z., ZHANG Z.

NanoSPD-6 (Nanomaterials by Severe Plastic Deformation), Metz, Fransa, 30 Haziran - 04 Temmuz 2014

XXI. **Improvement in Room Temperature Damping Capacity of Zn 22Al Alloy by Ultrafine Grain Formation**

DEMİRTAŞ M., PÜRÇEK G., YANAR H., ZHANG Z., ZHANG Z.

NanoSPD-6 (Nanomaterials by Severe Plastic Deformation), Metz, Fransa, 30 Haziran - 04 Temmuz 2014

Atıflar

Toplam Atıf Sayısı (WOS):208

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