

Prof. GENÇAĞA PÜRÇEK

Personal Information

Mobile Phone: [+90 533 335 3063](tel:+905333353063)

Office Phone: [+90 462 377 2941](tel:+904623772941)

Fax Phone: [+90 462 377 3336](tel:+904623773336)

Email: purcek@ktu.edu.tr

Other Email: gpurcek@gmail.com

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

Address: Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 61080-Trabzon/Türkiye



International Researcher IDs

ORCID: 0000-0002-4726-2257

Publons / Web Of Science ResearcherID: AAG-4555-2019

ScopusID: 904907

Yoksis Researcher ID: 44169

Education Information

Post Doctorate, Texas A&M University, Engineering Faculty , Mechanical Engineering , United States Of America 2009 - 2010

Post Doctorate, Michigan Technological University, Engineering Faculty , Mechanical Engineering , United States Of America 2003 - 2004

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Malzeme Anabilimdalı , Turkey 1995 - 2000

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Malzeme Anabilimdalı , Turkey 1991 - 1995

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Patent Eğitimi: Eğiticilerin Eğitimi,, TPE, 2012

Other, TÜBİTAK Proje Yönetimi Kursu, TÜBİTAK, 2005

Dissertations

Doctorate, Çinko-alüminyum esaslı aşımardan üretilen kaymalı yatakların statik ve dinamik yük altında tribolojik özelliklerinin incelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Malzeme , 2000

Postgraduate, Çinko-alüminyum esaslı aşımardan üretilen kaymalı yatakların tribolojik özelliklerinin incelenmesi,

Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği/Malzeme , 1995

Research Areas

Mechanical Engineering, Construction and Manufacturing, Tribology, Casting Methods, Welding Methods, Material, Plastic Forming Methods, Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Biomaterials, Thermal Treatment, Material Characterization, Mechanical Metallurgy, Metallic Materials, Nanomaterials, Structure-Property Relationship, Engineering and Technology

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , 2013 - Continues
Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , 2007 - 2013
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , 2003 - 2007
Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , 2000 - 2003
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , 1992 - 2000

Academic and Administrative Experience

Dean, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - Continues
Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - Continues
Giresun University, Mühendislik Fakültesi, 2017 - 2018
Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2014 - 2017
Manager of Research and Application Center, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - 2013
Karadeniz Technical University, Mühendislik Fakültesi, 2007 - 2010
Deputy Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2008 - 2009
Karadeniz Technical University, Makina Mühendisliği , 2007 - 2008

Courses

Mühendislik malzemelerine uygulanan mekanik deneyler, Doctorate, 2018 - 2019
Üretim Yöntemleri , Undergraduate, 2018 - 2019
Malzemelerin Mekanik Davranışları, Undergraduate, 2017 - 2018
Metalik malzemelerde mukavemet artırma mekanizmaları, Postgraduate, 2018 - 2019
Malzeme Bilimleri, Undergraduate, 2016 - 2017
Mühendislik Malzemeleri, Undergraduate, 2016 - 2017
Plastik şekil verme ilke ve uygulamaları, Doctorate, 2014 - 2015

Advising Theses

Pürçek G., Demir yolu taşıtları için asbest içermeyen organik esaslı kompozit balata bileşimlerinin geliştirilmesi, Doctorate, H.YANAR(Student), 2020
Pürçek G., Sürtünme-karıştırma işleminin bir gemi inşa çeliğinin yapısal ve mekanik özelliklerin olan etkisi ve bu çeliğin sürtünme karıştırma kaynak yöntemi ile birleştirilmesi, Doctorate, D.MURAT(Student), 2018
Pürçek G., Biyomedikal uygulamalar için Ti ve Ti alaşımlarının borlanması: Mikroyapı, mekanik özellikler ve biyoyumluluk incelemeleri, Doctorate, G.Kara(Student), 2017

Pürçek G., Çinko-Esaslı Süperplastik Alaşımların Geliştirilmesi ve Yapısal, Mekanik ve Titreşim Sönümleme Davranışlarının İncelenmesi, KTÜ Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Temmuz, 2017, Trabzon, Türkiye., Doctorate, M.Demirtaş(Student), 2017

Pürçek G., Aşırı Plastik Deformasyon ve Yaşlandırma İşlemlerinin Birleşik Etkisi ile Yüksek Performanslı Cu-Cr-Zr Elektrot Malzemesinin Geliştirilmesi, Postgraduate, H.Yanar(Student), 2014

Pürçek G., Eş Kanallı Açıl Ekstrüzyon/Basma Yöntemi İle Yüksek Dayanımlı IF-Çeliğinin Geliştirilmesi ve Bu Yöntemin IF-Çeliğinden Üretilen Saclara Uygulanması", KTÜ Fen Bilimleri Enstitüsü Makine Mühendisliği Anabilim Dalı, Doctorate, O.Saray(Student), 2013

Pürçek G., Aşırı Plastik Deformasyonun Titanyumun Şekillendirilebilirlik ve Korozyon Davranışı Üzerindeki Etkisinin İncelenmesi, Postgraduate, F.Ünker(Student), 2012

Pürçek G., Aşırı Plastik Deformasyonun Saf Titanyum ve Al-12Si Alaşımının Yapısal, Mekanik Ve Aşınma Özelliklerine Etkisinin İncelenmesi, Postgraduate, O.Kul(Student), 2009

PÜRÇEK G., Eş Kanallı Açıl Ekstrüzyon Yönteminin Zn-60Al ve Zn-60Al-2Cu Alaşımlarının Yapısal, Mekanik ve Aşınma Özelliklerine Etkisi, Postgraduate, O.Saray(Student), 2006

Jury Memberships

Doctorate, Tez Savunması, KTÜ, May, 2015

Doctorate, Tez savunma jürisi, KTÜ, October, 2014

Post Graduate, Tez savunma jürisi, KTÜ, November, 2013

Doctorate, Tez savunma jürisi, KTÜ, July, 2013

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Uşak Üniversitesi , June, 2013

Doctorate, Tez savunma jürisi, KTÜ, June, 2013

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Giresun Üniversitesi , May, 2013

Post Graduate, Tez savunma jürisi, KTÜ, August, 2012

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Atatürk Üniversitesi , July, 2012

Doctorate, Tez savunma jürisi, KTÜ, March, 2012

Doctorate, Tez savunma jürisi, KTÜ, April, 2011

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Atatürk Üniversitesi , March, 2011

Post Graduate, Tez savunma jürisi, KTÜ, July, 2009

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Gümüşhane Üniversitesi , July, 2009

Appointment to Academic Staff-Assistant Professorship, Atama Jürisi , Gümüşhane Üniversitesi , June, 2009

Post Graduate, Tez savunma jürisi, KTÜ, August, 2007

Doctorate, Tez savunma jürisi, KTÜ, April, 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Severe plastic deformation for producing superfunctional ultrafine-grained and heterostructured materials: An interdisciplinary review**
Edalati K., Ahmed A. Q., Akrami S., Ameyama K., Aptukov V., Asfandiyarov R. N., Ashida M., Astanin V., Bachmaier A., Beloshenko V., et al.
Journal of Alloys and Compounds, vol.1002, 2024 (SCI-Expanded)
- II. **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, vol.187, 2024 (SCI-Expanded)
- III. **Influence of microstructure characteristics on the fatigue properties of 7075 aluminum alloy**
Jin J., Zhang Z., Hou J., Gong B., Wang H., Zhou X., PÜRÇEK G., Sheinerman A., Zhang Z.
Materials Science and Engineering: A, vol.912, 2024 (SCI-Expanded)
- IV. **High-Cycle-Fatigue Anisotropy of an Aluminum Alloy Superthick Plate**

Wang H., Zhang Z., Gong B., Zhou X., Liu R., Abedi H. R., PÜRÇEK G., YANAR H., Demirtas M., Zhang Z.
Advanced Engineering Materials, vol.26, no.15, 2024 (SCI-Expanded)

- V. **On the correspondence of bump relief on the surface of materials processed with low-energy high-current electron beam to their grain structure**
Ivanov K., Akimov K., Demirtas M., PÜRÇEK G.
Vacuum, vol.225, 2024 (SCI-Expanded)
- VI. **Effects of aging state on the low-cycle fatigue properties of 2024 aluminum alloy**
Gong B., Zhang Z., Hou J., Liu R., Duan Q., Wang H., Wang X., Liu H., Wang H., PÜRÇEK G., et al.
Journal of Materials Research and Technology, vol.29, pp.2448-2457, 2024 (SCI-Expanded)
- VII. **Mechanical Properties of Al-9Si-0.6Mg-0.1Sr Alloy Processed By Successive Hot and Cold Multi-directional Forging**
KARABIYIK S., ALEMDAĞ Y., Atmaca M., PÜRÇEK G., HEKİMOĞLU A. P.
JOM, vol.76, no.2, pp.807-817, 2024 (SCI-Expanded)
- VIII. **Surface Modification of Additively Manufactured Inconel 718 Alloy by Low-Energy High-Current Electron Beam Irradiation**
Demirtas M., Ivanov K. V., PÜRÇEK G., YANAR H., KAYNAK Y.
Advanced Engineering Materials, 2024 (SCI-Expanded)
- IX. **Mechanical properties of three typical aluminum alloy strips prepared by twin-roll casting**
Jin J., Zhang Z., Li R., Li Y., Gong B., Hou J., Wang H., Zhou X., PÜRÇEK G., Zhang Z.
Journal of Materials Research and Technology, vol.28, pp.500-511, 2024 (SCI-Expanded)
- X. **Comparison on the Fatigue Crack Propagation of High-Strength Aluminum Alloys**
Gong B., Zhang Z., Duan Q., Wang H., Wang X., Liu H., Cong F., PÜRÇEK G., Zhang Z.
Advanced Engineering Materials, vol.25, no.24, 2023 (SCI-Expanded)
- XI. **Research on anisotropy of the 7B50 super thick plate**
Wang H., Zhang Z., Cong F., Ren W., Gong B., Liu R., Li R., Zhou X., PÜRÇEK G., DEMİRTAŞ M., et al.
Journal of Alloys and Compounds, vol.960, 2023 (SCI-Expanded)
- XII. **Investigation on the fatigue behavior of 7075 aluminum alloy at different aging states**
Gong B., Zhang Z., Hou J., Li R., Liu R., Duan Q., Wang X., Liu H., Cong F., PÜRÇEK G., et al.
International Journal of Fatigue, vol.175, 2023 (SCI-Expanded)
- XIII. **Microstructure and Mechanical Properties of Severely Deformed Eutectic Al-Si-Cu-Mn Alloy**
ALEMDAĞ Y., KARABIYIK S., PÜRÇEK G.
METALS AND MATERIALS INTERNATIONAL, vol.29, no.4, pp.1181-1194, 2023 (SCI-Expanded)
- XIV. **An Overview of the Principles of Low-Temperature Superplasticity in Metallic Materials Processed by Severe Plastic Deformation**
DEMİRTAŞ M., PÜRÇEK G.
Materials Transactions, vol.64, no.8, pp.1724-1738, 2023 (SCI-Expanded)
- XV. **Friction and wear behavior of chairside CAD-CAM materials against different types of antagonists: An in vitro study**
ZAIM B., SERİN KALAY T., PÜRÇEK G.
Journal of Prosthetic Dentistry, vol.128, no.4, pp.803-813, 2022 (SCI-Expanded)
- XVI. **Enhancing mechanical and tribological properties of Ni3Al-15vol%TiC composite by high current pulsed electron beam irradiation**
DEMİRTAŞ M., Ivanov K., PÜRÇEK G., YANAR H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.898, 2022 (SCI-Expanded)
- XVII. **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.
TRIBOLOGY INTERNATIONAL, vol.165, 2022 (SCI-Expanded)
- XVIII. **Nanomaterials by severe plastic deformation: review of historical developments and recent advances**
Edalati K., Bachmaier A., Beloshenko V. A., Beygelzimer Y., Blank V. D., Botta W. J., Bryła K., Čížek J., Divinski S.,

Enikeev N. A., et al.

Materials Research Letters, vol.10, no.4, pp.163-256, 2022 (SCI-Expanded)

- XIX. The mechanical compression performance of ultra-fine grained stainless steel pyramidal lattice core**
KULEYIN H., GÜMRÜK R., YANAR H., Demirtaş M., PÜRÇEK G.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.28, no.10, pp.1073-1078, 2021 (SCI-Expanded)
- XX. Effect of multi-directional hot forging process on the microstructure and mechanical properties of Al-Si based alloy containing high amount of Zn and Cu**
ALEMDAĞ Y., KARABIYIK S., Mikhaylovskaya A. V., Kishchik M. S., PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.803, 2021 (SCI-Expanded)
- XXI. Effect of multi-directional hot forging on mechanical and tribological properties of Al-7Si-4Zn-3Cu alloy**
ALEMDAĞ Y., KARABIYIK S., PÜRÇEK G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.1, pp.255-265, 2021 (SCI-Expanded)
- XXII. Mechanical properties and cell proliferation response of borided biomedical titanium alloys with different crystalline structures**
KARA G., PÜRÇEK G.
SURFACE & COATINGS TECHNOLOGY, vol.397, 2020 (SCI-Expanded)
- XXIII. Friction Stir Welding of Low-Carbon Shipbuilding Steel Plates: Microstructure, Mechanical Properties, and Corrosion Behavior**
SEKBAN D. M., Aktarer S. M., PÜRÇEK G.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.4127-4140, 2019 (SCI-Expanded)
- XXIV. Boriding behaviour of titanium alloys with different crystalline structures**
Kara G., Pürçek G.
SURFACE ENGINEERING, vol.35, no.7, pp.611-617, 2019 (SCI-Expanded)
- XXV. Microstructure, mechanical properties and formability of friction stir welded dissimilar materials of IF-steel and 6061 Al alloy**
AKTARER S. M., SEKBAN D. M., KÜÇÜKÖMEROĞLU T., PÜRÇEK G.
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.26, no.6, pp.722-731, 2019 (SCI-Expanded)
- XXVI. Room Temperature Superplasticity in Fine/Ultrafine Grained Materials Subjected to Severe Plastic Deformation**
DEMIRTAS M., PÜRÇEK G.
MATERIALS TRANSACTIONS, vol.60, no.7, pp.1159-1167, 2019 (SCI-Expanded)
- XXVII. Growth kinetics and mechanical characterization of boride layers formed on beta-type Ti-45Nb alloy**
Kara G., Pürçek G.
SURFACE & COATINGS TECHNOLOGY, vol.352, pp.201-212, 2018 (SCI-Expanded)
- XXVIII. 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, vol.72, no.2, pp.195-202, 2018 (SCI-Expanded)
- XXIX. 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.
Journal of Alloys and Compounds, vol.742, pp.325-333, 2018 (SCI-Expanded)
- XXX. Formability of Friction Stir Processed Low Carbon Steels Used in Shipbuilding**
SEKBAN D. M., AKTARER S. M., Saray O., MA Z. Y., PÜRÇEK G.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, pp.1-10, 2018 (SCI-Expanded)
- XXXI. Microstructural and Mechanical Evolution of a Low Carbon Steel by Friction Stir Processing**
SEKBAN D. M., Aktarer S. M., Zhang H., Xue P., Ma Z., PÜRÇEK G.

- METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.8, pp.3869-3879, 2017 (SCI-Expanded)
- XXXII. **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, no.6, pp.2868-2876, 2017 (SCI-Expanded)
- XXXIII. **Improvement of wear behaviour of titanium by boriding**
Kara G., Pürçek G., Yanar H.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.69, no.1, pp.65-70, 2017 (SCI-Expanded)
- XXXIV. **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, vol.672, pp.78-87, 2016 (SCI-Expanded)
- XXXV. **Impact toughness of friction stir processed low carbon steel used in shipbuilding**
SEKBAN D. M., AKTARER S. M., XUE P., MA Z. Y., PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.672, pp.40-48, 2016 (SCI-Expanded)
- XXXVI. **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, vol.663, pp.775-783, 2016 (SCI-Expanded)
- XXXVII. **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, vol.650, pp.63-66, 2016 (SCI-Expanded)
- XXXVIII. **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, vol.649, pp.114-122, 2016 (SCI-Expanded)
- XXXIX. **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, vol.644, pp.17-24, 2015 (SCI-Expanded)
- XL. **Microstructure, mechanical properties and formability of friction stir processed interstitial-free steel**
SEKBAN D. M., Saray O., AKTARER S. M., PÜRÇEK G., MA Z. Y.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.642, pp.57-64, 2015 (SCI-Expanded)
- XLI. **Microstructure, Mechanical Properties and Formability of Friction Stir Processed Interstitial-Free Steel**
SEKBAN D. M., SARAY O., AKTARER S. M., PÜRÇEK G., MA Z. Y.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.642, no.642, pp.57-64, 2015 (SCI-Expanded)
- XLII. **Effect of two-pass friction stir processing on the microstructure and mechanical properties of as-cast binary Al-12Si alloy**
AKTARER S. M., SEKBAN D. M., Saray O., KÜÇÜKÖMEROĞLU T., MA Z. Y., PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND

- PROCESSING, vol.636, pp.311-319, 2015 (SCI-Expanded)
- XLIII. **Microstructure And Tribological Properties Of Ti Borided By Electron Beam Evaporation Technique**
Kara G., Pürçek G., Bacaksız E., Atasoy Y.
Journal Of The Balkan Tribological Association, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)
- XLIV. **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, vol.623, pp.213-218, 2015 (SCI-Expanded)
- XLV. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAKSIZ E.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)
- XLVI. **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., Zhang Z.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.620, pp.233-240, 2014 (SCI-Expanded)
- XLVII. **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.
WEAR, vol.311, pp.149-158, 2014 (SCI-Expanded)
- XLVIII. **Formability of Ultrafine-Grained Interstitial-Free Steels**
Saray O., PÜRÇEK G., Karaman I., Maier H. J.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.4194-4206, 2013 (SCI-Expanded)
- XLIX. **Impact Toughness of Ultrafine-Grained Interstitial-Free Steel**
Saray O., PÜRÇEK G., Karaman I., Maier H. J.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.11, pp.4320-4330, 2012 (SCI-Expanded)
- L. **High Strength and High Ductility of Ultrafine-Grained, Interstitial-Free Steel Produced by ECAE and Annealing**
PÜRÇEK G., Saray O., Karaman I., Maier H. J.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.6, pp.1884-1894, 2012 (SCI-Expanded)
- LI. **Microstructure and mechanical behavior of UFG copper processed by ECAP following different processing regimes**
PÜRÇEK G., Saray O., Nagimov M. I., Nazarov A. A., Safarov I. M., Danilenko V. N., Valiakhmetov O. R., Mulyukov R. R.
PHILOSOPHICAL MAGAZINE, vol.92, no.6, pp.690-704, 2012 (SCI-Expanded)
- LII. **Effect of internal oxidation on wear behavior of ultrafine-grained Nb-Zr**
PÜRÇEK G., Saray O., Rubitschek F., Niendorf T., Maier H. J., Karaman I.
ACTA MATERIALIA, vol.59, no.20, pp.7683-7694, 2011 (SCI-Expanded)
- LIII. **Equal-channel angular sheet extrusion of interstitial-free (IF) steel: Microstructural evolution and mechanical properties**
Saray O., PÜRÇEK G., Karaman I., Neindorf T., Maier H. J.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.528, no.21, pp.6573-6583, 2011 (SCI-Expanded)
- LIV. **Hydroxyapatite production on ultrafine-grained pure titanium by micro-arc oxidation and hydrothermal treatment**
Alsaran A., PÜRÇEK G., Hacisalihoglu I., Vangolu Y., BAYRAK O. Ü., Karaman I., ÇELİK A.
SURFACE & COATINGS TECHNOLOGY, vol.205, 2011 (SCI-Expanded)
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Memberships / Tasks in Scientific Organizations

Türk Triboloji Derneği (Turkish Tribological Association), Member, 2018 - Continues
Community of Science, Member, 2010 - Continues
Materials Research Society (MRS), Member, 2009 - Continues
TMMOB Makine Mühendisleri Odası, Member, 1995 - Continues

Scientific Refereeing

Materials Chemistry and Physics, National Scientific Refreed Journal, July 2015
T.C. Bilim, Sanayii ve Teknoloji Bakanlığı, Coşkunöz Ar-Ge Merkezi Yıllık Faaliyet Hakemliği, Other Journals, November 2014
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Journal of Engineering Manufacture, SCI Journal, March 2012
TUBİTAK-TEYDEP, Other Journals, February 2012
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Physica Status Solidi A-Applications and Materials Science, SCI Journal, May 2011
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TUBİTAK Project, May 2007

Scientific Consultations

TÜBİTAK 3501 Kariyer Geliştirme Programı, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey, 2015 - Continues
TÜBİTAK 1512 3. Aşama Projesi, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey, 2015 - Continues
UTS Mühendislik, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey, 2011 - Continues
Bilim, Sanayi ve Teknoloji Bakanlığı, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina

Mühendisliği , Turkey, 2013 - 2014

Bilim, Sanayi ve Teknoloji Bakanlığı, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey, 2012 - 2013

Bilim, Sanayi ve Teknoloji Bakanlığı, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği , Turkey, 2011 - 2012

Scientific Research / Working Group Memberships

The International NanoSPD Steering Committee, KARADENİZ TEKNİK ÜNİVERSİTESİ, Turkey, <http://www.nanospd.org/>, 2013 - Continues

Metrics

Publication: 236

Citation (WoS): 1668

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H-Index (WoS): 24

H-Index (Scopus): 26

Congress and Symposium Activities

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2014 2. Dönem 1001 Proje önerilerini değerlendirme paneli, Attendee, Bursa, Turkey, 2014

TÜBİTAK-TEYDEP, 1507-KOBİ Ar-Ge Başlangıç Destek Programı, Attendee, Bursa, Turkey, 2014

Nanomaterials by Severe Plastic Deformation (NanoSPD-6), Invited Speaker, France, 2014

TÜBİTAK, Bilim, Teknoloji ve Yenilik Politikaları Daire Başkanlığı, Otomotiv sektörü özelinde hafifletirmeye yönelik malzeme teknolojileri çalıştayı, Attendee, Ankara, Turkey, 2014

NanoTR-9, Invited Speaker, Erzurum, Turkey, 2013

Bilim Sanayi ve Teknoloji Bakanlığı, Bilim ve Teknoloji Genel Müdürlüğü, San-Tez projeleri değerlendirme paneli, Attendee, Ankara, Turkey, 2013

TÜBİTAK Kamu Kurumları Araştırma Geliştirme Projelerini Destekleme Programı (1007 KAMAK Programı), Proje Önerilerini Değerlendirme Paneli, Attendee, Ankara, Turkey, 2013

TUBITAK co-funded brain circulation scheme (co-circulation scheme) individual assessment, Attendee, Turkey, 2012

TÜBİTAK Kamu Kurumları Araştırma Geliştirme Projelerini Destekleme Programı (1007 KAMAK Programı), Proje Önerilerini Değerlendirme Paneli, Attendee, Ankara, Turkey, 2012

TÜBİTAK-Bilim İnsanı Destekleme Daire Başkanlığı (BİDEB), 2214/2219 Yurt Dışı Araştırma Bursları Değerlendirme Paneli, Attendee, Turkey, 2012

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2012 2. Dönem 1001 Proje önerilerini değerlendirme paneli, Attendee, Turkey, 2012

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2010 Hızlı destek projelerini değerlendirme paneli, Attendee, Turkey, 2011

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2011-TEYDEP 1007 Proje değerlendirme paneli, Attendee, Turkey, 2011

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2010 2. Dönem 1001-Projelerini değerlendirme paneli, Attendee, Turkey, 2010

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 1002 Hızlı Destek Proje Değerlendirmesi, Attendee, Turkey, 2010

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2010 1.Dönem 1001-Projelerini değerlendirme paneli, Attendee, Turkey, 2010

TÜBİTAK-Mühendislik Araştırma Grubu (MAG), 2009 1. Dönem 1001-Projelerini değerlendirme paneli, Attendee,

Turkey, 2009

TÜBİTAK Mühendislik Araştırma Grubu (MAG), Uluslar arası proje değerlendirme paneli, Attendee, Turkey, 2009

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2008 1. Dönem 1001-Projelerini değerlendirme paneli, Attendee, Turkey, 2008

TÜBİTAK Bilim ve Teknoloji İnsan Kaynakları Stratejisi Birinci Çalıştayı, 19-21 Eylül 2008, TÜBİTAK-TÜSSİDE, Attendee, Gebze/Kocaeli, Turkey, 2008

TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2007 1. Dönem 1001-Projelerini değerlendirme paneli, Attendee, Turkey, 2007

NANOTECHNOLOGY RESEARCH FORUM, Attendee, Ankara, Turkey, 2006

NANO TRII (Nanoscience and Nanotechnology 2006), Attendee, Ankara, Turkey, 2006

NANO TRI (Nanoscience and Nanotechnology 2005), Attendee, Turkey, 2005

TÜBİTAK Proje Yönetimi Kursu, Attendee, Turkey, 2005

Non Academic Experience

Inst. of Metal Research, China

Institute of Metal Research, Chinese Academy of Science, Shenyang, China

Texas A&M University

Michigan technological University