

## Prof. GENÇAĞA PÜRÇEK

### Personal Information

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### International Researcher IDs

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ScopusID: 904907

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### 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 Açısal 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 Açısal 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. **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, vol.26, no.23, 2024 (SCI-Expanded)
- II. **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)
- III. **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)

- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- 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. **Influence of contamination of saliva, blood, and their mixture on shear bond strength between tricalcium silicate-based bioceramic (Biodentine®) and resin-based dental composite**  
DÜLGER K., PÜRÇEK G.  
Journal of the Australian Ceramic Society, 2024 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)

- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- 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, pp.57-64, 2015 (SCI-Expanded)
- XLII. **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)

- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **Improvement of high strain rate and room temperature superplasticity in Zn-22Al alloy by two-stepe 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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **Effect of internal oxidation on wear behavior of ultrafine-grained Nb-Zr**  
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- CXXVI. **Effect of Severe Plastic Deformation on Tensile Properties and Impact Toughness of Two Phase Zn 40Al Alloy**  
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Bulk Nanostructured Materials-BNM-2007, 14 - 18 August 2007
- CXXVII. **Microstructural Evolution and Enhancement of Strength and Ductility in Two-Phase UFG Zn-Al alloys,**  
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UFG-2006, Kloster Irsee, Germany, 25 - 27 September 2006, pp.1
- CXXVIII. **Microstructural Evolution and Enhancement of Strength and Ductility in Two Phase UFG Zn Al alloys**

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- CXXIX. **Enhancement in Mechanical Behavior and Wear Resistance of Severe Plastically Deformed Two Phase Zn Al alloys**  
PÜRÇEK G., Karaman İ., YAPICI G. G., Al Maharbi M., KÜÇÜKÖMEROĞLU T., SARAY O.  
UFG-2006, Kloster Irsee, Germany, 24 - 26 September 2006
- CXXX. **Structure and Nanomechanical Properties of CdTe Thin Film Deposited on Glass at Different Substrate Temperature,**  
PÜRÇEK G., BACAŞIZ E., Miskiođlu İ.  
NANO-TRII (Nanoscience and Nanotechnology 2006), METU, Ankara, Turkey, 3 - 05 May 2006, pp.1
- CXXXI. **Mechanical Properties and Wear Resistance of Severely Deformed ZA-27 Alloy after Equal Channel Angular Extrusion**  
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- CXXXII. **A Novel Method for Producing Improved Properties and Ultracrystalline Steel: Equal-Channel Angular Extrusion (ECAE)**  
PÜRÇEK G., KÜÇÜKÖMEROĞLU T.  
TMMOB Mechanical Engineering Chamber, III. Iron-Steel Congress and Exhibition, Zonguldak, Turkey, 22 - 24 September 2005, pp.1

## Other Publications

1. **"Improvement Of Wear Resistance Of Pure Titanium (Grade-2) By Boriding Using Electro-Beam Evaporation Technique At Room Temperature"**BALKANTRIB'14, 8th International Conference on Tribology, Sinaia, ROMANYA, 30 Ekim - 1 Kasım 2014, pp.1-7  
Kara G., Pürcek G., Atasoy Y., BACAŞIZ E.  
Presentation, pp.1-7, 2014

## Supported Projects

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- PÜRÇEK G., ÇAKIR O., saray o., TUBITAK Project, Çok fonksiyonlu özgün bir tribolojik test sisteminin geliştirilmesi, Continues
- İçin K., Pürçek G., Alptekin F., Erdem A. F., TUBITAK Project, Hafif Silah Bileşenlerine Yönelik Çevreci Yeni Nesil Akımsız Nikel-fosfor Ve Elektrolitik Kalay-nikel Dupleks Kaplama Uygulamalarının Geliştirilmesi, 2024 - 2026
- Varol T., Pürçek G., Yanar H., Beder M., Güler O., TÜBİTAK International Bilateral Joint Cooperation Program Project, Hierarchically Structured Functional Aa2024 Aerospace Alloy Processed By Hybrid Additive Manufacturing and Surface Engineering, 2023 - 2024
- VAROL T., ÇUVALCI H., BAYKAL S., DURAN C., ÇANAĞCI A., SARI A., ALTINTAŞ S. H., PÜRÇEK G., GEDİKLİ H., ÇUVALCI O., et al., Project Supported by Higher Education Institutions, Biyomedikal ve İleri Mühendislik Malzemelerinin Seçici Lazer Ergitme Yöntemi İle Üretimi, 2020 - 2023
- KOŞAR T., PÜRÇEK G., BAYRAKTAR F., ÇELİK D., Project Supported by Higher Education Institutions, Rejeneratif Endodontik Tedavide Kullanılan Farklı Medikaman Ajanların ve Koronal Bariyer Materyallerinin Yapay İmmatür Dişlerin Kırılma Direnci Üzerine Etkisinin Değerlendirilmesi, 2021 - 2022
- Yanar H., Pürçek G., TUBITAK Project, Kara ve Demir Yolu Taşıtlarına Yönelik Yeni Bir Balata Test Sisteminin Geliştirilmesi, 2020 - 2021
- Yanar H., Pürçek G., KOSGEB, Servo Sistem Tahrikli ve PLC Kontrollü Çok Fonksiyonlu Bir Sürtünme Aşınma ve Yağlama

Test Cihazının Arayüz Yazılımı İle Birlikte Geliştirilmesi, 2019 - 2020

KARA G., PÜRÇEK G., Project Supported by Higher Education Institutions, Titanyum ve alaşımlarının katı hal borlanması için borlama karışımı, 2017 - 2020

Pürçek G., Çakır O., TUBITAK Project, Çok Fonksiyonlu Özgün Bir Tribolojik Test Sisteminin Geliştirilmesi, 2017 - 2019

PÜRÇEK G., Project Supported by Higher Education Institutions, Zn-22Al alaşımının oda sıcaklığındaki süperplastik davranışının geliştirilmesi ve sönümleyici malzeme olarak kullanılabilirliğinin araştırılması, 2014 - 2017

Yanar H., Pürçek G., TUBITAK Project, Pin-on-disk tipi tribolojik test sisteminin modüler tarzda geliştirilerek ticarileşme potansiyelinin artırılması, 2015 - 2016

TÜZÜNER T., PÜRÇEK G., SÖKMEN M., ÇAKIROĞLU T. N., ALTINTEPE İ., KUŞGÖZ A., DEĞER O., Project Supported by Higher Education Institutions, CHLORHEXIDINE BENZALKONIUM CHLORIDE VE PROPOLİS İÇEREN CAM İYONOMER SİMANIN ANTİBAKTERİYEL SİTOTOKSİK FİZİKSEL VE KİMYASAL ÖZELLİKLERİNİN İN-VİTRO DEĞERLENDİRİLMESİ, 2015 - 2016

Pürçek G., Industrial Thesis Project, 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

PÜRÇEK G., Project Supported by Other Official Institutions, İmplant üretimi için nanoyapılı, yüksek dayanımlı ve tam biyoyumlu alfa ve beta tipi Ti ve Ti alaşımlarının üretilmesi ve bu sürecin ticarileştirilmesi, 2012 - 2013

PÜRÇEK G., Project Supported by Other Official Institutions, Deney Düzeneği Tasarımı ve İmalatı, 2011 - 2012

PÜRÇEK G., Project Supported by Higher Education Institutions, Biyomalzeme Uygulamalar İçin Nanoyapılı ve Yüksek dayanımlı Saf Titanyum Üretimi:Yapısal.Mekanik ve Tribolojik Özelliklerin İncelenmesi, 2010 - 2012

PÜRÇEK G., Project Supported by Higher Education Institutions, Eş Kanallı Açısız Ekstrüzyon Yöntemi İle Ultra Kristalin Yapılı Ve Yüksek Dayanımlı IF-Çeliği İle Üretimi, 2009 - 2012

KÜÇÜKÖMEROĞLU T., PÜRÇEK G., TUBITAK Project, Farklı Aşırı Plastik Deformasyon Yöntemleri İle Üretilen Nanoyapılı Bakırın Yapısal Ve Mekanik Özelliklerinin İncelenmesi, 2009 - 2011

PÜRÇEK G., KÜÇÜKÖMEROĞLU T., TUBITAK Project, Eş-Kanallı Açısız Ekstrüzyon Yöntemi ile Ultra-Kristalin Yapılı ve Yüksek Dayanımlı IF-Çeliği Üretimi ve Bu Yöntemin IF-Çeliğinden Üretilen Saclara Uygulanması, 2008 - 2011

KÜÇÜKÖMEROĞLU T., PÜRÇEK G., TUBITAK Project, Aşırı Plastik Deformasyon İle Balk Formda Nanoyapılı Zn-Al-Esaslı Alaşımların Üretilmesi: Yapısal, Mekanik ve Tribolojik Özellikler, 2005 - 2008

ÇUVALCI H., PÜRÇEK G., TUBITAK Project, Çinko-alüminyum Esaslı Yeni Yatak Malzemelerinin Geliştirilmesi ve Bu Malzemelerden Üretilen Yatakların Tribolojik Özelliklerinin İncelenmesi, 1993 - 1995

## **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 Refereed Journal, July 2015

T.C. Bilim, Sanayi ve Teknoloji Bakanlığı, Coşkunöz Ar-Ge Merkezi Yıllık Faaliyet Hakemliği, Other Journals, November 2014

TUBITAK Project, November 2014

TÜBİTAK-TEYDEP, 1507-KOBİ Ar-Ge Başlangıç Destek Programı, Other Journals, June 2014

TUBITAK Project, May 2014

TÜBİTAK KOBİ Ar-Ge Başlangıç Destek Programı, 7131097 nolu ve "Servo ve Pnömatik Tahrikli, Radyal Perçin İmalat Mekanizmalarının Tasarımı ve Geliştirilmesi, Other Journals, April 2014

TÜBİTAK-TEYDEP, 1507-KOBİ Ar-Ge Başlangıç Destek Programı, Other Journals, March 2014

TÜBİTAK KOBİ Ar-Ge Başlangıç Destek Programı, 7131097 nolu ve "Servo ve Pnömatik Tahrikli, Radyal Perçin İmalat Mekanizmalarının Tasarımı ve Geliştirilmesi" adlı proje, Other Journals, November 2013  
Materials Science and Engineering A, SCI Journal, July 2013  
TUBITAK Project, June 2013  
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Mühendis ve Makina, National Scientific Refreed Journal, May 2013  
ISRN Metallurgy, Other Indexed Journal, March 2013  
Metallurgical and Materials Transactions A, SCI Journal, March 2013  
SOJ Materials Science & Engineering, Other Indexed Journal, March 2013  
The Scientific Word Journal , SCI Journal, March 2013  
TUBITAK Project, March 2013  
Journal of the Faculty of Engineering and Architecture of Gazi University , SCI Journal, February 2013  
Materials, Other Indexed Journal, February 2013  
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TUBITAK co-funded brain circulation scheme (co-circulation scheme) individual assessment, Other Journals, October 2012  
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Current Nanoscience, SCI Journal, June 2012  
TÜBİTAK-Bilim İnsanı Destekleme Daire Başkanlığı (BİDEB), Other Journals, May 2012  
TUBITAK Project, May 2012  
Mühendislik Dergisi, National Scientific Refreed Journal, April 2012  
Tribology Letter, SCI Journal, April 2012  
Tribology International , SCI Journal, April 2012  
Surface and coating technology, SCI Journal, March 2012  
Journal of Engineering Tribology, SCI Journal, March 2012  
Journal of Engineering Manufacture, SCI Journal, March 2012  
TÜBİTAK-TEYDEP, Other Journals, February 2012  
TÜBİTAK Mühendislik Araştırma Grubu (MAG), 2011-TEYDEP 1007 Proje değerlendirme paneli, Other Journals, June 2011  
TUBITAK Project, June 2011  
Physica Status Solidi A-Applications and Materials Science, SCI Journal, May 2011  
Advances in Materials Science and Engineering, SCI Journal, March 2011  
TUBITAK Project, December 2010  
TUBITAK Project, July 2010  
Materials Transactions , SCI Journal, June 2010  
Powder Technology , SCI Journal, May 2010  
TUBITAK Project, May 2010  
Journal of Materials Processing Technology, SCI Journal, March 2010  
TUBITAK-TEYDEP Proje hakemliği, Other Journals, May 2009  
TUBITAK Project, May 2009  
TUBITAK Project, April 2009  
TUBITAK Project, October 2008  
TUBITAK 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: 237

Citation (WoS): 1668

Citation (Scopus): 1837

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 hafifleştirmeye yönelik malzeme teknolojileri çalıştay, 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

TUBİTAK 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 Çalıştay, 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