

## Assoc. Prof. YASİN ALEMDAĞ

### Personal Information

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### Education Information

Doctorate, Karadeniz Technical University, Fenbilimleri Enstitüsü, Makina /Malzeme, Turkey 2000 - 2007

Post Graduate, Karadeniz Technical University, Fenbilimleri Enstitüsü, Makina /Malzeme, Turkey 1996 - 2000

Under Graduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Makina Mühendisliği, Turkey 1992 - 1996

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Bakır, Silisyum veya Nikel İçeren Al-40Zn Esaslı Alaşımların Yapısal, Mekanik ve Tribolojik Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina /Malzeme, 2007

Post Graduate, Sıcaklık ve Akım Yoğunluğunun Sert ve Dekoratif Amaçlı Krom Kaplamaların Yapı ve Özelliklerine Etkisi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina /Malzeme, 2000

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Material, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina, 2015 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina, 2008 - 2015

Lecturer, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Makina, 2002 - 2008

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makina, 1997 - 2000

### Academic and Administrative Experience

Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Karadeniz Technical University, Makina Mühendisliği, 2008 - Continues

Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Makina, 2007 - 2008

Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Makina, 2002 - 2008

## Advising Theses

ALEMDAĞ Y., Çinko ve Bakır Katkılarının Ticari Al-7Si ve Al-12Si Alaşımlarının Yapı, Mekanik ve Tribolojik Özelliklerine Etkilerinin İncelenmesi, Post Graduate, M.Beder(Student), 2014

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Effects of Mn Content on Microstructure, Mechanical and Dry Sliding Wear Properties of Eutectic Al-Si-Cu Alloy**  
ALEMDAĞ Y., Beder M.  
METALS AND MATERIALS INTERNATIONAL, 2019 (Journal Indexed in SCI)
- II. **Effects of zinc content on strength and wear performance of Al-12Si-3Cu based alloy**  
ALEMDAĞ Y., Beder M.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.29, no.12, pp.2463-2471, 2019 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **DRY SLIDING WEAR PROPERTIES OF Al-7Si-4Zn-(0-5)Cu ALLOYS**  
ALEMDAĞ Y., Beder M.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.154-165, 2015 (Journal Indexed in SCI)
- V. **Microstructural, mechanical and tribological properties of Al-7Si-(0-5)Zn alloys**  
ALEMDAĞ Y., Beder M.  
MATERIALS & DESIGN, vol.63, pp.159-167, 2014 (Journal Indexed in SCI)
- VI. **FRICITION AND WEAR BEHAVIOUR OF INTERMETALLIC Ni60Ti40 ALLOY MODIFIED WITH ALUMINIUM**  
ALEMDAĞ Y., COOPER R., LIANG H.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.19, no.4, pp.558-569, 2013 (Journal Indexed in SCI)
- VII. **Effect of nickel additions on the mechanical and sliding wear properties of Al-40Zn-3Cu alloy**  
Savaskan T., ALEMDAĞ Y.  
WEAR, vol.268, pp.565-570, 2010 (Journal Indexed in SCI)
- VIII. **Developing aluminium-zinc-based a new alloy for tribological applications**  
Savaskan T., BİCAN O., ALEMDAĞ Y.  
JOURNAL OF MATERIALS SCIENCE, vol.44, no.8, pp.1969-1976, 2009 (Journal Indexed in SCI)
- IX. **Mechanical and tribological properties of Al-40Zn-Cu alloys**  
ALEMDAĞ Y., Savaskan T.  
TRIBOLOGY INTERNATIONAL, vol.42, no.1, pp.176-182, 2009 (Journal Indexed in SCI)
- X. **Effects of pressure and sliding speed on the friction and wear properties of Al-40Zn-3Cu-2Si alloy: A comparative study with SAE 65 bronze**  
Savaskan T., ALEMDAĞ Y.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.496, pp.517-523, 2008 (Journal Indexed in SCI)
- XI. **Effects of silicon content on the mechanical properties and lubricated wear behaviour of Al-40Zn-3Cu-(0-5)Si alloys**  
ALEMDAĞ Y., Savaskan T.  
TRIBOLOGY LETTERS, vol.29, no.3, pp.221-227, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Çözündürme ve Yaşlandırma İşleminin Al-7Si-4Zn-3Cu Alaşımının Sürtünme ve Aşınma Özelliklerine Etkisi**  
ALEMDAĞ Y., BEDER M.  
Kırıkkale Üniversitesi Mühendislik Fakültesi Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.11, no.2, pp.602-611, 2019 (Other Refereed National Journals)
- II. **Dekoratif Amaçlı Krom Kaplamada Sıcaklık ve Akım Yoğunluğunun Kaplama Özelliklerine Etkisi**  
SAVAŞKAN T., ALEMDAĞ Y., PÜRÇEK G., KÜÇÜKÖMEROĞLU T.  
MÜHENDİS VE MAKİNA, vol.42, no.494, pp.38-42, 2001 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **ÇEVİRİM SAYISININ ÇOK YÖNLÜ SICAK DÖVÜLMÜŞ AL-7Si-4Zn ALAŞIMININ MEKANİK ÖZELLİKLERİNE ETKİSİ**  
ALEMDAĞ Y., KARABIYIK S., PÜRÇEK G.  
4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC), Ankara, Turkey, 18 - 20 October 2019, pp.242-247
- II. **ÇOK YÖNLÜ SICAK DÖVÜLMÜŞ AL-7Si-4Zn ALAŞIMININ SÜRTÜNME VE AŞINMA ÖZELLİKLERİNİN İNCELENMESİ**  
ALEMDAĞ Y., KARABIYIK S., PÜRÇEK G.  
4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC), Ankara, Turkey, 18 - 20 October 2019, pp.236-241
- III. **Dry Sliding Wear Properties of Al-7Si-4Zn-(0-5)Cu Alloys**  
ALEMDAĞ Y., Beder M.  
8th International Conference on Tribology (BALKANTRIB'2014), Sinaia, Romania, 30 October - 01 November 2018, pp.119
- IV. **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, Russia, 19 September - 22 August 2018, vol.385, pp.250-255
- V. **, Effect of Severe Plastic Deformation on the Mechanical and Tribological Properties of Cu-30Zn Brass**  
ALEMDAĞ Y., PÜRÇEK G., Akgün M.  
The 3th International Symposium, Bulk Nanostructured Material, BNM 2011, Ufa, Russia, 23 August - 26 September 2018, pp.131-133
- VI. **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, Russia, 19 - 22 August 2018, pp.12
- VII. **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, Petersburg, Russia, 19 - 22 August 2018, pp.250-255
- VIII. **Friction Stir Processing Of Low Carbon Steels Used In Shipbuilding**  
SEKBAN D. M., AKTARER S. M., ALEMDAĞ Y., PÜRÇEK G.  
Ultrafine grained and nanostructured materials (UFGNM), 3 - 07 October 2016
- IX. **Effect of age hardening on the wear behaviour of the Al-7Si-4Zn-3Cu alloy**  
ALEMDAĞ Y., PÜRÇEK G., Beder M.  
TURKEYTRIB 2015 1st International Conference on Tribology, İstanbul, Turkey, 7 - 09 October 2015, pp.1

- X. **Surface hardening of Al-12Si alloy by friction stir processing and its effect on friction and wear properties**  
YANAR H., PÜRÇEK G., SEKBAN D. M. , AKTARER S. M. , KÜÇÜKÖMEROĞLU T., ALEMDAĞ Y.  
TURKEYTRIB 2015 1st International Conference on Tribology, İstanbul, Turkey, 7 - 09 October 2015, pp.1
- XI. **Effect of severe plastic deformation on the mechanical and tribological properties of Cu-11Sn bronze**  
ALEMDAĞ Y., PÜRÇEK G., AKGÜN M.  
The 3th International Symposium, Bulk Nanostructured Materials, BNM-2011, Ufa, Russia, 23 - 26 August 2011, pp.1
- XII. **Research on Materials Science: Connection to Energy Conversion**  
PÜRÇEK G., ALEMDAĞ Y.  
Kick-Off Meeting of the International Institute for Multifunctional Materials for Energy Conversion (IIMEC), Texas, United States Of America, 25 - 26 January 2010, pp.1

## **Citations**

Total Citations (WOS):205

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