

Prof. YASİN ALEMDAĞ

Personal Information

Email: yalemdag@ktu.edu.tr

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

Education Information

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

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

Undergraduate, 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

Postgraduate, 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

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2021 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2021

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2008 - 2015

Lecturer, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Makine Ve Metal Teknolojileri, 2002 - 2008

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 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, Postgraduate, M.Beder(Student), 2014

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)

XIII. **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

h-index (WOS):7