

Prof. AGAH UĞUZ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University Of Oxford-St. Catherine's College, United Kingdom 1985 - 1990

Doctorate, University Of Oxford-St. Catherine's College, Materials Science, United Kingdom 1985 - 1990

Undergraduate, İstanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1980 - 1984

Foreign Languages

English, C2 Mastery

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2002 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 1996 - 2002

Academic and Administrative Experience

Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, 1997 - 2000

Courses

Mühendislik Malzemelerinde Kırılma, Undergraduate, 2017 - 2018

Malzemelerin Karakterizasyonu, Doctorate, 2017 - 2018

Seramik Malzemeler, Undergraduate, 2017 - 2018

İleri Teknoloji Seramik Malzemeleri, Postgraduate, 2017 - 2018

BİLİM VE TEKNOLOJİ TARİHİ, Undergraduate, 2017 - 2018

Advising Theses

UĞUZ A., Process optimization and experimental modeling of the parameters of the electrospinning machine, Doctorate, F.Yıldız(Student), 2020

UĞUZ A., Minimizing seat belt negative effects on the human health in vehicle during accident, Postgraduate, R.Oğuzhan(Student), 2020

UĞUZ A., Mechanical analysis, cost analysis and optimization of material variability and material thickness in passenger seat leg in computer environment, Postgraduate, R.Yüksel(Student), 2020

UĞUZ A., An experimental research on production practicability of open cell aluminum metal foams and applicability for 3d modelling, Postgraduate, A.Bakırçı(Student), 2019

UĞUZ A., An experimental investigation of the metal foams to be used in the heavy vehicle causes as a energy absorption in underrun protection device, Postgraduate, Q.MOHAMMADI(Student), 2019

UĞUZ A., Systematic investigation of tool failures in outer grinding process at piezo nozzle production and reduce tool cost, Postgraduate, S.UYSALTÜRK(Student), 2013

UĞUZ A., Modelling of cutting and joining operations of foam metals after production by experimental values, Doctorate, T.SİĞIRTMAÇ(Student), 2010

UĞUZ A., Mould materials classification for range of applications, Postgraduate, İ.TUNÇ(Student), 2010

UĞUZ A., Mathematical and experimental modeling of aluminum foam metal's mechanical properties under different loading conditions, Doctorate, S.HAKAN(Student), 2009

UĞUZ A., Plastic injection molding technics and special applications, Postgraduate, S.YELKENÇİ(Student), 2008

UĞUZ A., Investigating the corrosion resistance of the drum brake parts according to the coating parameters, Postgraduate, O.NEZİH(Student), 2006

UĞUZ A., Physical properties of foam metal materials, Postgraduate, O.Avarisli(Student), 2005

UĞUZ A., Investigation of mechanical properties of aluminum alloys welded by TIG and MIG methods, Postgraduate, T.ERTAN(Student), 2005

UĞUZ A., Coating of aluminum alloys by plasma electrolytic oxidation method, Postgraduate, S.TOHUMCU(Student), 2005

UĞUZ A., Recycling methods of rubber chum, Postgraduate, E.DURAN(Student), 2003

UĞUZ A., Fatigue modelling of draglink ball joint, Postgraduate, S.HAKAN(Student), 2002

UĞUZ A., The effect of internal structure on mechanical properties in dual phase steels, Postgraduate, KARIDAĞ(Student), 2001

UĞUZ A., The effects of notch depth and notch angle onto the fracture characteristics in metallic materials, Postgraduate, C.SALMAN(Student), 1999

UĞUZ A., Examination of fraction problem of sheet metal die design, Postgraduate, B.Ali(Student), 1997

UĞUZ A., Sac kalıp tasarımda yırtılma probleminin incelenmesi, Postgraduate, B.ALİ(Student), 1997

UĞUZ A., Analysis of crack-tip plastic zone in metallic materials, Postgraduate, S.YILMAZ(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determination of mechanical behavior of metal-rubber compound pulley part, finite element analysis and verification with tests**
UĞUZ A., Penekli U.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.4, pp.2113-2123, 2020 (SCI-Expanded)
- II. **EFFECTS OF DIFFERENT STERILIZATION METHODS ON POLYESTER SURFACES**
DÜZYER GEBİZLİ Ş., KORAL KOÇ S., HOCKENBERGER A., Evke E., KAHVECİ Z., UĞUZ A.
TEKSTİL VE KONFEKSİYON, vol.23, no.4, pp.319-324, 2013 (SCI-Expanded)
- III. **Effects of Welding Parameters on the Mechanical Properties of Inert Gas Welded 6063 Aluminum Alloys**
Ertan T., Ertan R., UĞUZ A.
MATERIALS TESTING, vol.54, no.1, pp.13-18, 2012 (SCI-Expanded)

- IV. Tensile properties of friction stir welded joints of 2024 aluminum alloys in different heat-treated-state**
Aydin H., Bayram A., Uğuz A., Akay S. K.
MATERIALS & DESIGN, vol.30, no.6, pp.2211-2221, 2009 (SCI-Expanded)
- V. Abrasive and Sliding Wear Characteristics of Al-Si Cast Alloys Before and After Coating by Plasma Electrolytic Oxidation Process**
AYDIN H., BAYRAM A., Uguz A.
MATERIALS TESTING-MATERIALS AND COMPONENTS TECHNOLOGY AND APPLICATION, vol.50, no.6, pp.318-325, 2008 (SCI-Expanded)
- VI. The observation of grain boundary phases in Al-Zn-Mg alloys containing dispersoids**
UĞUZ A., BAYRAM A.
Metall, vol.58, pp.44-46, 2004 (SCI-Expanded)
- VII. Modeling the effects of mechanical loads finite element modeling of ball joints under dynamic loading**
Uguz A., Oka S.
Materialprüfung/Materials Testing, vol.46, no.10, pp.506-512, 2004 (SCI-Expanded)
- VIII. Determination of the crystallographic parameters of a fcc metal by means of electron channelling patterns**
Uguz A.
Crystal Research and Technology, vol.38, no.6, pp.515-527, 2003 (SCI-Expanded)
- IX. The observation of grain boundary phases in Al-Zn-Mg alloys containing dispersoids**
Uguz A., Bayram A.
METALL, vol.58, pp.44-46, 2003 (SCI-Expanded)
- X. Rapid determination of the fracture toughness of metallic materials using circumferentially notched bars**
Bayram A., Uguz A., Durmus A.
Journal of Materials Engineering and Performance, vol.11, no.5, pp.571-576, 2002 (SCI-Expanded)
- XI. Effect of Si content and microstructure on the wear behaviour of Al-Si alloys**
Uguz A., Bayram A.
Metall, vol.55, no.12, pp.758-761, 2001 (SCI-Expanded)
- XII. Effect of Microstructure on the Wear Behaviour of a Dual Phase Steel**
BAYRAM A., UĞUZ A.
Materialwissenschaft und Werkstofftechnik, 2001 (SCI-Expanded)
- XIII. Effect of microstructure on the wear behaviour of a dual phase steel Einfluss der mikrostruktur auf das verschleissverhalten eines dualphasen-stahls**
Bayram A., Uguz A.
Materialwissenschaft und Werkstofftechnik, vol.32, no.3, pp.249-252, 2001 (SCI-Expanded)
- XIV. The effect of spheroidising and Na-modification on the mechanical properties of Al-Si cast alloys**
BAYRAM A. S., UĞUZ A.
Metall, vol.53, no.3, pp.131-134, 1999 (SCI-Expanded)
- XV. The effect of a notch on the tensile properties of a commercial 7075-Al alloy**
Bayram A., Uguz A.
Metall, vol.53, no.9, pp.486-489, 1999 (SCI-Expanded)
- XVI. Effects of microstructure and notches on the mechanical properties of dual-phase steels**
Bayram A., Uguz A., Ula M.
Materials Characterization, vol.43, no.4, pp.259-269, 1999 (SCI-Expanded)
- XVII. Plastic zone size measurement techniques for metallic materials**
Uguz A., Martin J.
Materials Characterization, vol.37, pp.105-118, 1996 (SCI-Expanded)
- XVIII. The effect of retrogression and re-ageing on the ductile fracture toughness of Al-Zn-Mg alloys containing different dispersoid phases**

- Uguz A., Martin J.
JOURNAL OF MATERIALS SCIENCE, vol.30, no.23, pp.5923-5926, 1995 (SCI-Expanded)
- XIX. **A note on stretch zones in an Al-Zn-Mg alloy**
UĞUZ A., Martin J. W.
Materials Characterization, vol.34, no.3, pp.217-220, 1995 (SCI-Expanded)
- XX. **Effect of additives on the microstructure and mechanical properties of commercial alumina ceramics**
MISIRLI Z., UGUZ A., BAYKARA T.
Materials Characterization, vol.33, no.4, pp.329-341, 1994 (SCI-Expanded)
- XXI. **Plastic zone size measurements in Al-Zn-Mg alloys by means of selected area channelling patterns**
Uguz A., Martin J.
Zeitschrift fuer Metallkunde/Materials Research and Advanced Techniques, vol.83, no.4, pp.270-275, 1992 (SCI-Expanded)
- XXII. **The measurement of grain boundary particle distributions in aged AlZnMg alloys**
UGUZ A., MARTIN J.
Materials Characterization, vol.27, no.3, pp.147-156, 1991 (SCI-Expanded)
- XXIII. **RAPID METHOD FOR THE DETERMINATION OF TEM FOIL THICKNESS**
TEKİN A., UGUZ A., MARTIN J.
MATERIALS CHARACTERIZATION, vol.25, no.1, pp.99-107, 1990 (SCI-Expanded)

Articles Published in Other Journals

- I. **A comparative study of electrospinning process for two different collectors: The effect of the collecting method on the nanofiber diameters**
Cavdar F. Y., UĞUZ A.
MECHANICAL ENGINEERING JOURNAL, vol.6, no.1, 2019 (ESCI)
- II. **Araçlarda Kullanılan Emniyet Kemerlerinin Kaza Anında İnsan Sağlığına Olan Olumsuz Etkilerinin Azaltılması için bir Sistem Geliştirilmesi**
Sümer R. O., GÜLÇİMEN ÇAKAN B., ÇAKIR M. C., UĞUZ A.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.24, no.3, 2019 (Peer-Reviewed Journal)
- III. **Effect of Ethylene Oxide Autoclave and Ultra Violet Sterilizations on Surface Topography of PET Electrospun Fibres**
DÜZYER Ş., HOCKENBERGER A., UĞUZ A., KAHVECİ Z.
Uludağ University Journal of the Faculty of Engineering, vol.21, no.2, pp.201-218, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Reinforcement of a thermoplastic crash-box with aluminum foam and tie beams**
ENSARİOĞLU C., GÜLÇİMEN ÇAKAN B., KÖLÜK H., REİS M., ÇELİK H., UĞUZ A., ÇAKIR M. C.
Academic Conference on Engineering, IT and Artificial Intelligence (AC-EITAI 2018), Prag, Czech Republic, 10 - 13 August 2018, pp.425-434
- II. **Biomechanical evaluation of a novel screwless posterior stabilization system: an experimental study**
SALCI H., LEKİSİZ H., ŞENAYSOY S., Karaca A. A., Çetin M., Canatan U., Acar H., ÇAKIR M. C., UĞUZ A., Safi İ., et al.
Second International Biomedical Engineering Congress, 24 - 27 May 2018
- III. **Development of a thermoplastic crash-box reinforced with aluminum foam**
ENSARİOĞLU C., GÜLÇİMEN ÇAKAN B., KÖLÜK H., REİS M., AKSEL L., UĞUZ A., ÇAKIR M. C.
International 9th Automotive Technologies Congress (OTEKON 2018), Bursa, Turkey, 7 - 08 May 2018
- IV. **Development of a Thermoplastic Crash-Box Reinforced with Aluminum Foam**
ENSARİOĞLU C., GÜLÇİMEN ÇAKAN B., REİS M., Kölük H., AKSEL I., UĞUZ A., ÇAKIR M. C.
9th International Automotive Technologies Congress, Bursa, Turkey, 7 - 08 May 2018

V. Development of Solar Cells on Textile Substrates

Koral Koç S., Düzyer Ş., Hockenberger A., Uğuz A., Tapan İ., Peksöz A., Akay S. K., Pat S., Fırat Y. E., Demiriz T. M., et al.

UTİB Turkish Textile and Clothing Sector VII. International R&D Brokerage Event, İstanbul, Turkey, 27 - 29 May 2015, pp.757-758

VI. Cell proliferation on modified PET nanofiber mats

Düzyer Ş., Koral Koç S., Hockenberger A., Evke E., Kahveci Z., Uğuz A.

14th AUTEX World Textile Conference, Bursa, Turkey, 26 - 28 May 2014

Metrics

Publication: 46

Citation (WoS): 321

Citation (Scopus): 363

H-Index (WoS): 7

H-Index (Scopus): 8

Non Academic Experience

ULUTEK TEKNOLOJİ GELİŞTİRME BÖLGESİ
TÜBİTAK MARMARA ARAŞTIRMA MERKEZİ