

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, Istanbul 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.Bakırcı(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.SİĞİRTMAÇ(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, Ş.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 churn, 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, K.ARIDAĞ(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 tasarımında 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. **Joining AlSi10Mg plates produced by additive manufacturing with MIG method and optimization of welding parameters Eklemeli imalat ile üretilen AlSi10Mg plakalarının MIG yöntemiyle birleştirilmesi ve kaynak parametrelerinin optimizasyonu**
Işılak C., Ünal G., Yılmazoğlu G., Üzel U., Durgut R., UĞUZ A.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.40, no.1, pp.573-586, 2024 (SCI-Expanded)
- II. **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)
- III. **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)

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

- Materials Characterization, vol.43, no.4, pp.259-269, 1999 (SCI-Expanded)
- XVIII. **Plastic zone size measurement techniques for metallic materials**
Uguz A., Martin J.
Materials Characterization, vol.37, pp.105-118, 1996 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **RAPID METHOD FOR THE DETERMINATION OF TEM FOIL THICKNESS**
TEKIN 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. **FDM Yöntemiyle Üretilen PLA Malzemelerin Üretim Parametrelerinin Optimizasyonu**
Mustafa S., MURAT D., ÇAKIR M. C., UĞUZ A.
12. Uluslararası GAP Zirvesi Bilimsel Araştırmalar Kongresi, Gaziantep, Turkey, 29 May 2024
- II. **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

- III. **Biomechanical evaluation of a novel screwless posterior stabilization system: an experimental study**
SALCI H., LEKESİZ 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
- IV. **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
- V. **Development of a Thermoplastic Crash-Box Reinforced with Aluminum Foam**
ENSARİOĞLU C., GÜLÇİMEN ÇAKAN B., REİS M., Kölük H., AKSEL L., UĞUZ A., ÇAKIR M. C.
9th International Automotive Technologies Congress, Bursa, Turkey, 7 - 08 May 2018
- VI. **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
- VII. **Cell proliferation on modified PET nanofiber mats**
Düzyer Ş., Koral Koç S., Hockenberger A., Evke E., Kahveci Z., Uğuz A.
14th AUTEK World Textile Conference, Bursa, Turkey, 26 - 28 May 2014

Supported Projects

Uğuz A., Koral Koç S., Kahveci Z., Karaca E., Hockenberger A., TÜBİTAK - AB COST Project, 110M793- Investigation of Suitability of Electrospun Polyethylene Terephthalate PET Nanosurfaces for Scaffold Applications TÜBİTAK Project No 110M793 COST ACTION MP 1206 Electrospun Nano fibres for Bio Inspired Composite Materials and Innovative Industrial Applications 110M793- Elektrospinning Yöntemiyle Üretilen Polietilentereftalat (PET) Nanoyüzeylerin Doku Çatısı (Scaffold) Olarak Kullanılabilirliklerinin Araştırılması- "MP1206 - Electrospun Nano-Fibers for Bio-Inspired Composite Materials and Innovative Industrial Applications" aksiyonu kapsamında COST projesi, 2011 - 2014

Metrics

Publication: 48
Citation (WoS): 317
Citation (Scopus): 375
H-Index (WoS): 7
H-Index (Scopus): 8

Non Academic Experience

ULUTEK TEKNOLOJİ GELİŞTİRME BÖLGESİ
TÜBİTAK MARMARA ARAŞTIRMA MERKEZİ