

Asst. Prof. BAHADIR UYULGAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-2806-2019

ScopusID: 6507610932

Yoksis Researcher ID: 142525

Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 2001 - 2008

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), Turkey 1997 - 2001

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1991 - 1997

Dissertations

Doctorate, Fracture toughness properties of welded low alloy and austenitic stainless steel plates with austenitic consumable, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2008

Postgraduate, The Effect of yield strength mismatch on welded nodular cast iron, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), 2001

Research Areas

Mechanical Engineering, Construction and Manufacturing, Casting Methods, Non-traditional manufacturing methods, Welding Methods, Material, Plastic Forming Methods, Fracture Mechanics, Mechanical Testing, Metallurgical and Materials Engineering, Testing and Control of Materials, Mechanical Properties, Physical Properties, Joining and Cutting, Mechanical Metallurgy, Metallic Materials, Structure-Property Relationship

Academic Positions

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2009 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 1998 - 2009

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2018 -

Continues

Fakülte Yönetim Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2015 - Continues

Mevlana Exchange Program Coordinator, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2015 - Continues

Farabi Coordinator, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2015 - Continues

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2014 - 2019

Courses

Doctorate

Doktora Uzmanlık Alanı, Doctorate, 2022 - 2023, 2021 - 2022

Postgraduate

Yüksek Lisans Uzmanlık Alanı, Postgraduate, 2022 - 2023, 2021 - 2022

Yüksek Lisans Tez, Postgraduate, 2022 - 2023, 2021 - 2022

Metallerin Plastik Deformasyon Özellikleri, Postgraduate, 2021 - 2022

Undergraduate

Çelik Tasarımı, Undergraduate, 2021 - 2022

Bitirme Projesi, Undergraduate, 2022 - 2023, 2021 - 2022

Mühendislik Malzemeleri, Undergraduate, 2022 - 2023

Tasarım ve Malzeme Seçimi, Undergraduate, 2022 - 2023

Mühendislik Malzemeleri, Undergraduate, 2022 - 2023

Bitirme Projesi Hazırlık, Undergraduate, 2022 - 2023, 2021 - 2022

Mühendislik Matematiği, Undergraduate, 2021 - 2022

Demir Çelik Üretimi, Undergraduate, 2021 - 2022

Teknik Resim, Undergraduate, 2022 - 2023

Plastik Şekillendirme, Undergraduate, 2021 - 2022

Supervised Theses

UYULGAN B., Invesigation of hot tearing problems in A356 alloy casting in permanent molds, Postgraduate, A.ESKİ(Student), 2024

UYULGAN B., Experimental investigation of the effects of various preheat temperatures on residual stresses and mechanical properties in multi-pass butt welding of SA 387 grade 91 material, Postgraduate, C.ÇELİK(Student), 2023

UYULGAN B., Investigation of the pull-out performance of passenger vehicle suspension ball joint by finite element and mechanical tests, Postgraduate, H.AKYEL(Student), 2023

UYULGAN B., Improvement of wear behavior on tool steels, Postgraduate, E.ERDEM(Student), 2021

UYULGAN B., Influence of pack borinizing treatment on corrosion protection of plastic mold steels, Postgraduate, K.ÖZTÜRK(Student), 2021

UYULGAN B., daha sonra doldurulacaktır, Doctorate, G.ÖZKAN(Student), 2020

UYULGAN B., Optimization of heat treatment parameters in austempered spheroidal graphite cast iron, Postgraduate, F.HAMMAMI(Student), 2019

UYULGAN B., In the aluminum casting, producing the parts which were produced by gravity die casting method, by low pressure die casting method, Postgraduate, G.ÖZKAN(Student), 2018

Journal articles indexed in SCI, SSCI, and AHCI

- I. **A preliminary study on the manufacturing aluminum–potassium feldspar metal matrix composite materials** Eine vorläufige Studie zur Herstellung von Aluminium-Kalium-Feldspat-Metallmatrix-Verbundwerkstoffen
Das O., Aybarc U., Yücel Öztürk Y., Gören Kırıl B., Öztürk H., Kırıl Z., Uyulgan B.
Materialwissenschaft und Werkstofftechnik, vol.54, no.1, pp.109-119, 2023 (SCI-Expanded)
- II. **Effect of silica particle size and filler content on the fracture properties of epoxy resin composite**
Azem Z., Malayoğlu U., Uyulgan B.
HIGH TEMPERATURES-HIGH PRESSURES, vol.50, no.0, pp.395-414, 2021 (SCI-Expanded)
- III. **Fracture behavior of various welded steels**
Ozdemir T. E., ÇETİNEL H., UYULGAN B.
MATERIALS TESTING, vol.58, no.2, pp.102-108, 2016 (SCI-Expanded)
- IV. **THE EFFECTS OF RALOXIFENE ON OSTEOCALCIN, AS A BONE TURNOVER MARKER IN ORCHIECTOMIZED RATS**
Saklamaz A., UYULGAN B., Sevin G., Kebapçılar L., Yilmaz O., Cimrin D., Kumanlioglu K., Bayraktar F.
ACTA ENDOCRINOLOGICA-BUCHAREST, vol.10, no.3, pp.340-351, 2014 (SCI-Expanded)
- V. **Effect of constraint on fracture behavior of welded 17mn4 and aisi304 steels**
UYULGAN B., ÇETİNEL H., Aksoy T.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.25, no.9, pp.2171-2177, 2011 (SCI-Expanded)
- VI. **The biomechanical assessment of fixation methods in periprosthetic femur fractures**
Gulsen M., Karatosun V. A., UYULGAN B.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.45, no.4, pp.266-269, 2011 (SCI-Expanded)
- VII. **Biomechanical Analysis of Interbody Device in Calf Corpectomy Model**
Senoglu M., UYULGAN B., Naderi S.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.28, no.4, pp.497-512, 2011 (SCI-Expanded)
- VIII. **Investigation of radioulnocarpal joint load distribution effects of radial shortening osteotomy for the treatment of Kienbock disease: a biomechanical study**
Turan A. C., UZUN B., Unal M., UYULGAN B., ÜNVER B., Gunal I.
EKLEM HASTALIKLARI VE CERRAHISI-JOINT DISEASES AND RELATED SURGERY, vol.21, no.2, pp.98-103, 2010 (SCI-Expanded)
- IX. **Wear behaviour of thermal flame sprayed FeCr coatings on plain carbon steel substrate**
UYULGAN B., DOKUMACI ALKAN E., Celik E., Kayatekin I., AK AZEM N. F., Ozdemir I., Toparli M.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.190, pp.204-210, 2007 (SCI-Expanded)
- X. **The biomechanical effects of talectomy on the foot**
Ozcan O., Karapinar H., Boya H., UYULGAN B., Gunal I.
JOURNAL OF THE AMERICAN PODIATRIC MEDICAL ASSOCIATION, vol.96, no.6, pp.495-498, 2006 (SCI-Expanded)
- XI. **The effect of fly ash and limestone fillers on the viscosity and compressive strength of self-compacting repair mortars**
FELEKOĞLU B., Tosun K., Baradan B., Altun A., UYULGAN B.
CEMENT AND CONCRETE RESEARCH, vol.36, no.9, pp.1719-1726, 2006 (SCI-Expanded)
- XII. **Assessment of microstructural and mechanical properties of HVOF sprayed WC-based cermet coatings for a roller cylinder**
Celik E., Culha O., UYULGAN B., AK AZEM N. F., Ozdemir I., Turk A.
SURFACE & COATINGS TECHNOLOGY, vol.200, pp.4320-4328, 2006 (SCI-Expanded)
- XIII. **An investigation of fracture toughness of carbon/epoxy composites**
TOYGAR E. M., Toparli M., UYULGAN B.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.25, no.18, pp.1887-1895, 2006 (SCI-Expanded)
- XIV. **Effect of luting agents and reconstruction techniques on the fracture resistance of pre-fabricated post systems**
Toksavul S., Toman M., UYULGAN B., Schmage P., Nergiz I.
JOURNAL OF ORAL REHABILITATION, vol.32, no.6, pp.433-440, 2005 (SCI-Expanded)
- XV. **Biomechanical analysis of load transmission characteristics of limited carpal fusions used to treat**

Kienböck's disease Kienböck hastalığı tedavisinde sinirli karpal füzyonların yük aktarma özelliklerinin biyomekanik analizi.

Günel I., Özcan O., UYULGAN B., Baran O., ARMAN C., Karatosun V. A.

Acta orthopaedica et traumatologica turcica, vol.39, no.4, pp.351-355, 2005 (SCI-Expanded)

XVI. The effect of yield strength mismatch on the fracture behavior of welded nodular cast iron

Cetinel H., UYULGAN B., Aksoy T.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.387, pp.357-360, 2004 (SCI-Expanded)

XVII. Wear and friction properties of multilayer hard coatings by HTCVD method

Yigit R., Ozdemir I., Celik E., UYULGAN B., Aksoy T.

EURO CERAMICS VIII, PTS 1-3, pp.585-588, 2004 (SCI-Expanded)

XVIII. An in vitro wear investigation of dental ceramic porcelain veneers

UYULGAN B., Ozdemir I., Tekmen C., Toparli M., Celik E.

EURO CERAMICS VIII, PTS 1-3, pp.2005-2008, 2004 (SCI-Expanded)

XIX. Friction and wear properties of Mo coatings on cast-iron substrates

UYULGAN B., Cetinel H., Ozdemir I., Tekmen C., Okumus S., Celik E.

SURFACE & COATINGS TECHNOLOGY, vol.174, pp.1082-1088, 2003 (SCI-Expanded)

XX. Wear properties of functionally gradient layers on stainless steel substrates for high temperature applications

Cetinel H., UYULGAN B., Tekmen C., Ozdemir I., Celik E.

SURFACE & COATINGS TECHNOLOGY, vol.174, pp.1089-1094, 2003 (SCI-Expanded)

XXI. Mechanical properties of device- vs. hand-mixed irreversible hydrocolloids.

Kilinc E., Cal E., Sonugelen M., Kesercioglu A., UYULGAN B.

JOURNAL OF DENTAL RESEARCH, vol.82, 2003 (SCI-Expanded)

Articles Published in Other Journals

I. Production of Cast Iron Turbocharger Central Housing from Aluminum Alloy

Uyulgan B.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.24, no.72, pp.845-853, 2022 (Peer-Reviewed Journal)

II. AGING TEMPERATURE EFFECT on HARDNESS and MICROSTRUCTURE of A357 ALUMINIUM ALLOY PART WHICH PRODUCED by GDC and LPDC

Özkan G., UYULGAN B.

Soma Meslek Yüksekokulu Teknik Bilimler Dergisi, vol.2, no.26, pp.11-17, 2018 (Peer-Reviewed Journal)

III. Biomechanical analysis of load transmission characteristics of limited carpal fusions used to treat Kienböck's disease

GÜNAL İ. H., ÖZCAN Ö., UYULGAN B., BARAN Ö., ARMAN C., KARATOSUN V. A.

Acta Orthopaedica Et Traumatologica Turcica, vol.4, no.39, pp.351-355, 2005 (Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. A356 ALAŞIMINDA KALIP VE DÖKÜM SICAKLIĞININ SICAK YIRTILMAYA OLAN ETKİSİNİN İNCELENMESİ

Eşki A., Uyulgan B., Doğdu B., Kalender C.

2. Uluslararası Mühendislik ve Fen Bilimleri Kongresi, İstanbul, Turkey, 16 December 2023, pp.68-77, (Full Text)

II. The Experimental Free Vibration Analysis of an Aluminum K Feldspar Metal Matrix Composite Plate

Daş O., Öztürk H., Kırıl Z., Gören Kırıl B., Yücel Öztürk Y., Uyulgan B., Doğdu B., Kalender C.

EURODYN2023, Amsterdam, Netherlands, 3 - 05 July 2023, pp.1-2, (Full Text)

III. Investigation Of Wear Behavior On Tool Steels

Erdem E., Uyulgan B., Öztürk K., Saf O.

The 8th International Symposium on Innovative Technologies in Engineering and Science (ISITES2020), Bursa, Turkey, 23 - 25 October 2020, vol.3, pp.52-61, (Full Text)

IV. Investigation Of Corrosion Behavior On Plastic Mold Steel

ÖZTÜRK K., UYULGAN B., ERDEM E., SAF O.

The 8th International Symposium on Innovative Technologies in Engineering and Science (ISITES2020), Bursa, Turkey, 23 - 25 October 2020, vol.3, pp.25-34, (Full Text)

V. aging temtature effect on hardness and microstructure of A357 aluminium alloy part wich produced by GDC and LPDC

özkan g., UYULGAN B.

1. International university industry cooperation, RD and inovation congress, 18 - 19 December 2017, (Summary Text)

VI. Wear and friction properties of multilayer hard coatings by HTCVD method

Yiğit R., Özdemir I., ÇELİK E., UYULGAN B., Aksoy T.

Proceedings of the 8th Conference and Exhibition of the European Ceramic Society, İstanbul, Turkey, 29 June - 03 July 2003, pp.585-588, (Full Text)

Funded Projects

Uyulgan B., TUBITAK Project, Termoplastik tabanlı sızdırmazlık profillerinin üretim yöntemlerinin geliştirilmesi, 2020 - 2028

UYULGAN B., Project Supported by Higher Education Institutions, Kalıp Çeliklerinde Aşınma Davranışlarının İyileştirilmesi, 2020 - 2021

Uyulgan B., Ahmet Uluğ Yamalı A. U., TUBITAK Project, Alüminyum Dökümünde Fire Oranı Enerji Tüketimi ve İşçilik Maliyetini Azaltan Aynı Zamanda Son Üründe Standart Kaliteyi Sağlayan Ürünlerin Tasarımı ve İmalatı, 2014 - 2015

Uyulgan B., Cöcen Ü., Project Supported by Higher Education Institutions, Dökümde tasarım ve süreç benzetimi, 2008 - 2010

Uyulgan B., Çetinel H., TUBITAK Project, Kaynaklı Konstruksiyonda Kısa Yorulma Çatlakları. MAG-106M091, 2006 - 2008

Metrics

Publication: 30

Citation (WoS): 434

Citation (Scopus): 503

H-Index (WoS): 7

H-Index (Scopus): 8