

Prof. İBRAHİM USLAN

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1993 - 1999

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1989 - 1993

Under Graduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1983 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, GAZ ATOMİZE ALUMİNYUM TOZLARININ ÖZELLİKLERİNE ÜRETİM DEĞİŞKENLERİNİN ETKİSİNİN ARAŞTIRILMASI, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 1999

Post Graduate, SAFİL ALUMİNA İÇEREN ALUMİNYUM-ÇİNKO MATRİSLİ KOMPOZİTLERİN SİĞ BATMA SÜRÜNME DAVRANIŞLARININ İNCELENMESİ, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1993

Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2006 - 2012

Assistant Professor, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2003 - 2006

Research Assistant, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1989 - 2003

Professional Experience

Rector, Gazi University, Rektörlük, 2016 - 2020

Rector, Ankara Hacı Bayram Veli University, Rektörlük, 2018 - 2018

Vice Rector, Gazi University, Rektörlük, 2012 - 2014

Deputy Head of Department, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2008 - 2012

Advising Theses

USLAN İ., İki eksenli hareket platformu için kontrolcü tasarımı ve uygulaması, Post Graduate, Ö.TUNCCEL(Student), 2018

USLAN İ., Controller Design And Application For Two Axis Motion Platform, Ö.Tuncel(Student), 2018

USLAN İ., Experimental Research On The Ballistic Properties Of Dilatant Materials, Doctorate, H.KEMAL(Student), 2018

USLAN İ., Investigation And Multi Physics Simulation Of Effect Of Adding Powder Into Dielectric Fluid And Heating On

Processing Performance In Drilling With Electric Discharge Machining Using Rotary Electrode, Doctorate, O.ERDEM(Student), 2016

USLAN İ., Experimental investigation on electrical discharge machining Performance of composite powder metal electrodes, O.Gülcan(Student), 2016

USLAN İ., Kompozit toz metal elektrotların elektro erozyon ile işleme performansının deneysel araştırılması, Doctorate, O.GÜLCAN(Student), 2016

USLAN İ., Analysis Of Bird Strike Effects On The Wing Of A Training Aircraft, Post Graduate, T.KİPER(Student), 2015

USLAN İ., Development Of A New Model For Magnetorheological Fluids And Determination Of Damping Characteristics, Doctorate, N.DOĞDU(Student), 2015

USLAN İ., Investigation of production parameters of porous copper surfaces used on heat exchangers, Post Graduate, S.ZENBİLCİ(Student), 2011

USLAN İ., TOZ ENJEKSİYON YÖNTEMİYLE KALIPLANMIŞ MgO TAKVİYELİ ALÜMİNANIN MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI, O.ERDEM(Student), 2010

USLAN İ., INVESTIGATION OF MOLDABILITY PARAMETERS OF POWDER INJECTION MOLDED Al-Fe-V-Si COMPOSITES BY ADDING ALUMINA, Post Graduate, E.TURAN(Student), 2010

USLAN İ., Toz enjeksiyon yöntemiyle kalıplanmış MgO takviyeli alüminanın mekanik özelliklerinin araştırılması, Post Graduate, O.ERDEM(Student), 2010

GEMALMAYAN N., USLAN İ., Kendinden yağlamalı grafit katkılı bronz yatakların aşınma davranışının incelenmesi, Post Graduate, Y.ATAK(Student), 2009

USLAN İ., Yakından eşlemeli laval nozul kullanılarak yapılan püskürtme şekillendirmenin mekanik özelliklere etkisinin araştırılması, Post Graduate, V.BOZDAĞ(Student), 2008

USLAN İ., INVESTIGATION OF THE EFFECT ON MECHANICAL PROPERTIES OF SPRAY FORMING BY USING CLOSE COUPLED LAVAL NOZZLE, V.BOZDAĞ(Student), 2008

USLAN İ., Toz enjeksiyon kalıplanmış steatit seramiklerin özelliklerine kalıplama ve sinterleme parametrelerinin etkisinin incelenmesi, Doctorate, L.URTEKİN(Student), 2008

USLAN İ., INVESTIGATION OF PRODUCTION PARAMETERS OF ELEMENTAL BORON FROM BORON OXIDE, Post Graduate, B.GÜNEY(Student), 2007

USLAN İ., Gaz Atomize Kalay Tozu Üretim Parametrelerinin Deneysel Olarak Araştırılması, Post Graduate, S.KÜÇÜKARSLAN(Student), 2006

USLAN İ., Ekstrüzyonla tam yoğunlaştırılmış püskürtme şekillendirme alüminyumun mekanik özelliklerinin deneysel olarak araştırılması, Post Graduate, A.AFŞİN(Student), 2006

USLAN İ., Toz enjeksiyon kalıplama ile steatitten üretilmiş parçaların sinterleme davranışlarının araştırılması, Post Graduate, M.BERBER(Student), 2005

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

- I. **Investigation of the effect of a dilatant material on ballistic strength of aramid fabric used as body armour suit**
Senyilmaz H. K. , USLAN İ., DEMİR T.
JOURNAL OF THE TEXTILE INSTITUTE, 2021 (Journal Indexed in SCI)
- II. **Thermo-fluid multi-physics modeling and experimental verification of volumetric workpiece material removal by a discharge pulse in electric discharge machining process**
ERDEM O., ÇOĞUN C., USLAN İ., ERBAŞ M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.53, no.39, 2020 (Journal Indexed in SCI)
- III. **Proposal of a mathematical model for describing magnetorheological fluid dynamic behavior**
DOĞDU N., USLAN İ., Yuksel S., PARLAK Z.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.33, no.8, pp.3885-3893, 2019 (Journal Indexed in SCI)
- IV. **The effect of powder mixed and heated dielectric on drilling performance of electric discharge machining (EDM)**

Erdem O., ÇOĞUN C., Urtekin L., ÖZERKAN H. B. , USLAN İ.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.3, pp.531-544, 2016 (Journal Indexed in SCI)

- V. **Performance and surface alloying characteristics of Cu-Cr and Cu-Mo powder metal tool electrodes in electrical discharge machining**
Gulcan O., USLAN İ., USTA Y., ÇOĞUN C.
MACHINING SCIENCE AND TECHNOLOGY, vol.20, no.4, pp.523-546, 2016 (Journal Indexed in SCI)
- VI. **EFFECT OF USE OF Cu-Cr P/M ELECTRODES ON MACHINING PERFORMANCE OF ELECTRIC DISCHARGE MACHINING**
Gulcan O., USLAN İ., USTA Y., ÇOĞUN C.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.3, pp.381-394, 2015 (Journal Indexed in SCI)
- VII. **An Investigation of Thermal Properties of Zirconia Coating on Aluminum**
URTEKİN L., KÜÇÜKTÜRK G., KARAÇAY T., USLAN İ., SALMAN S.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.37, no.8, pp.2323-2332, 2012 (Journal Indexed in SCI)
- VIII. **INVESTIGATION OF EFFECT OF FEEDSTOCK RHEOLOGIES FOR INJECTION MOLDING OF STEATITE**
URTEKİN L., USLAN İ., TUC B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.2, pp.333-341, 2012 (Journal Indexed in SCI)
- IX. **Push-out bond strengths of two fiber post types bonded with different dentin bonding agents (Retracted article. See vol. 100, pg. 1458, 2012)**
Topcu F. T. , Erdemir U., Sahinkesen G., Mumcu E., Yıldız E., USLAN İ.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.359-366, 2010 (Journal Indexed in SCI)
- X. **AN INVESTIGATION ON THE EFFECT OF GAS ATOMISATION PARAMETERS ON TIN POWDER PRODUCTION**
USLAN İ., KÜÇÜKARSLAN S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.1, pp.1-8, 2010 (Journal Indexed in SCI)
- XI. **Evaluation of Microhardness, Surface Roughness, and Wear Behavior of Different Types of Resin Composites Polymerized With Two Different Light Sources**
Topcu F. T. , Erdemir U., Sahinkesen G., Yıldız E., USLAN İ., ACİKEL C.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.470-478, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Effect of Machining on Workpiece Surface Characteristics in Electric Discharge Drilling (EDD)**
ERDEM O., ÇOĞUN C., USLAN İ.
International Journal of Advances in Engineering and Pure Sciences, no.1, pp.11-16, 2019 (Other Refereed National Journals)
- II. **EDM Performance of B4C Cu Based Sintered Tool Electrodes**
Gülcan O., USLAN İ., USTA Y., ÇOĞUN C.
Journal of Materials Science and Technology, vol.24, no.1, pp.3-10, 2016 (Refereed Journals of Other Institutions)
- III. **Effect of nozzle type on the particle size of air atomised aluminium powders**
USLAN İ.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.14, no.1, pp.1-15, 1999 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Machining Parameters on Workpiece Surface Characteristics in Electric Discharge Drilling (EDD)**
ERDEM O., ÇOĞUN C., USLAN İ.
The 18th International Conference on Machine Design and Production, 3 - 06 July 2018
- II. **Investigation of Electrical Discharge Drilling (EDD) Performance of Ti-6Al-4V Super Alloy**
ERDEM O., ÇOĞUN C., USLAN İ.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), 22 - 24 March 2018
- III. **EDM Performance of B4C Cu Based Sintered Tool Electrodes**
Gülcan O., USLAN İ., USTA Y., ÇOĞUN C.
Materials Science, Hydro- and Aerodynamics and National Security '2015, Sofya, Bulgaria, 22 - 23 October 2015
- IV. **MANYETOREOLOJİK SIVİNİN DİNAMİK DAVRANIŞININ İNCELENMESİ**
DOĞDU N., USLAN İ., YÜKSEL Ş., KARAÇAY T., TÜRKÜCÜ T.
International Science and Technology Conference, St. Petersburg, Russia, 2 - 04 September 2015, pp.842-851
- V. **Electro Discharge Machining Performance of Chromium Copper Powder Metal Electrodes**
Gülcan O., USLAN İ., USTA Y., ÇOĞUN C.
7th International Powder Metallurgy Conference, Ankara, Turkey, 24 - 28 June 2014
- VI. **TOZ KATKILI DİELEKTRİKLE ELEKTRO EROZYON İŞLEME PERFORMANSI**
Oğuz e., ÇOĞUN C., URTEKİN L., ÖZERKAN H. B., USLAN İ.
7. Uluslararası Toz Metalurjisi Konferansı, Ankara, Turkey, 24 - 28 July 2014, pp.1035
- VII. **DESIGN OF A NOZZLE FOR THE PRODUCTION OF METAL POWDER VIA GAS ATOMIZATION**
Sofuoğlu M. A., ERBAŞ M., USLAN İ., BIYIKOĞLU A.
ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013
- VIII. **DESIGN AND OPTIMIZATION OF A LOW TEMPERATURE ORGANIC RANKINE CYCLE AND TURBINE**
ERBAŞ M., Sofuoğlu M. A., BIYIKOĞLU A., USLAN İ.
ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013
- IX. **DEVELOPMENT OF A SWIRL NOZZLE FOR POWDER TECHNOLOGY**
Sofuoğlu M. A., ERBAŞ M., USLAN İ., BIYIKOĞLU A.
ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013
- X. **Elektro Erozyon İle İşlemede Döner Elektrot İle Delik Delmede Dielektrik Sıvısına Karıştırılan Tozların Ve Isıtmanın İşleme Performansına Etkisi**
ERDEM O., ÇOĞUN C., USLAN İ., URTEKİN L., ÖZERKAN H. B.
Makine İmalat Teknolojileri Kongresi, Turkey, 6 - 07 December 2013, vol.2, pp.212-221
- XI. **Investigation of Powder Injection Molding Steatite: Rheology, Debinding and Sintering Parameters**
URTEKİN L., USLAN İ., TUÇ B.
6th International Powder Metallurgy Conference, Ankara, Turkey, 5 - 09 October 2011
- XII. **Toz Enjeksiyon Yöntemiyle Kalıplanmış MgO Takviyeli Alüminanın Mekanik Özelliklerinin Araştırılması**
ERDEM O., USLAN İ.
6th International Powder Metallurgy Conference, Ankara, Turkey, 5 - 09 October 2011
- XIII. **Powder Metallurgy in Turkey**
USTA Y., USLAN İ.
NDT Days, Sozopol, Bulgaria, 9 - 13 June 2009
- XIV. **Investigation of The Apparent Density of Metal Powders: The Effects of Mixing Various Powder Sizes and Powder Geometry**
URTEKİN L., USTA Y., USLAN İ., SARITAŞ S.
5th International Powder Metallurgy Conference, Ankara, Turkey, 8 - 12 October 2008

- XV. **Gaz Atomize Alüminyum Tozu Oluşum Aşamalarının Morfolojik Olarak İncelenmesi**
USLAN İ., SARITAŞ S.
3rd International Powder Metallurgy Conference, Sakarya, Turkey, 04 September 2002 - 08 September 2008
- XVI. **Investigation of sintering behaviors of steatite parts produced by powder injection molding**
USLAN İ., Berber M., Karatas C., Saritas S.
Power Metallurgy World Congress and Exhibition 2006, Busan, South Korea, 24 - 28 September 2006, pp.549-550
- XVII. **Effects of Atomisation Parameters on the Shape of Aluminium Powders**
USLAN İ., SARITAŞ S.
Powder Metallurgy World Congress, Tokyo, Japan, 12 - 16 November 2000
- XVIII. **Gaz Atomize Alüminyum Tozlarında Soğuma Hızının Toz Boyutuyla Değişiminin Araştırılması**
USLAN İ., SARITAŞ S.
Uluslararası Katılımlı 2. Ulusal Toz Metalurjisi Konferansı, Ankara, Turkey, 15 - 17 September 1999
- XIX. **Gaz Atomizasyonunda Nozul Geometrisi, Gaz Cinsi ve Basıncının Alüminyum Tozu Boyutuna Etkisinin Araştırılması**
USLAN İ., SARITAŞ S.
1. Ulusal Toz Metalurjisi Konferansı, Ankara, Turkey, 16 - 17 September 1996

Supported Projects

USLAN İ., Project Supported by Higher Education Institutions, Gaz Atomizasyonu ve Püskürtme Şekillendirme Parametrelerinin Araştırılması, 2007 - Continues

USLAN İ., Project Supported by Higher Education Institutions, Lazer Delme İşleminde Delme Kalitesinin Araştırılması, 2005 - Continues

USLAN İ., Project Supported by Higher Education Institutions, Malzemelerdeki gözeneklerin ısı iletimine etkisinin deneysel analizi ve modellenmesi, 2002 - Continues

USLAN İ., Project Supported by Higher Education Institutions, TOZ BOYUTU VE ŞEKLİNİN BAKIR ESASLI TOZ METAL ELEKTROTLARIN EDM İLE İŞLEME PERFORMANSINA ETKİSİ, 2012 - 2014

USLAN İ., Project Supported by Higher Education Institutions, GAZ ATOMİZASYONUNDA NOZUL TASARIMI VE TOZ BOYUTUNUN TAHMİNLENMESİ, 2012 - 2014

USLAN İ., Project Supported by Higher Education Institutions, ALÜMİNYUM OKSİT TAKVİYELİ Al-Fe-V-Si KOMPOZİTLERİNİN REOLOJİK ÖZELLİKLERİNİN VE TOZ ENJEKSİYON İLE KALIPLANABİLİRLİĞİNİN ARAŞTIRILMASI, 2010 - 2012

USLAN İ., Project Supported by Higher Education Institutions, SİNTER AKTİF OKSİT KATKISININ ALUMİNANIN REOLOJİSİNE VE ENJEKSİYON İLE KALIPLANABİLİRLİĞİNE ETKİSİNİN ARAŞTIRILMASI, 2010 - 2012

Citations

Total Citations (WOS):92

h-index (WOS):6