

Assoc. Prof. Sinan SEZEK

Personal Information

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Post Address: Atatürk Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Böl.

Education Information

Doctorate, Atatürk Üniversitesi, Makine Mühendisliği, İmalat Ve Konstrüksiyon, Turkey 2001 - 2005

Under Graduate, Atatürk Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği , Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, TTTF Mentorluk Eğitimi, TUBİTAK / Smart Mentoring, 2016

Dissertations

Doctorate, Soğuk ve sıcak haddelemede akış fonksiyonları (dual stream functions) kullanarak teorik ve deneysel analizler, Atatürk Üniversitesi, Makina Mühendisliği , İmalat Konstrüksiyon, 2005

Post Graduate, Poligonal blokların "dual stream" fonksiyonları kullanılarak şekillendirilmesi, Atatürk Üniversitesi, Makina Mühendisliği , İmalat Konstrüksiyon, 2001

Research Areas

Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Plastic Forming Methods, Mechanical, Biomechanics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - Continues

Assistant Professor, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği , 2017 - 2018

Assistant Professor, Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği , 2017 - 2018

Assistant Professor, Atatürk Üniversitesi, Aşkale Meslek Yüksekokulu, Elektrik Ve Enerji , 2006 - 2017

Lecturer, Atatürk Üniversitesi, Aşkale Meslek Yüksekokulu, Doğalgaz Ve Isıtma Teknolojileri, 1996 - 2006

Professional Experience

Head of Department, Atatürk Üniversitesi, Aşkale Meslek Yüksekokulu, Elektrik Ve Enerji, 2006 - 2017

Courses

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

- **Investigating Corrosion, Wear Resistance and Friction of AA5454-O Series after its Severe Deformation by Rolling**
SEZEK S.
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.23, pp.27-31, 2017 (Journal Indexed in SCI)
- **Biomechanical comparison of straight and helical compression plates for fixation of transverse and oblique bone fractures: Modeling and experiments**
SEZEK S., AKSAKAL B., GÜRGER M., Malkoc M., Say Y.
BIO-MEDICAL MATERIALS AND ENGINEERING, vol.27, pp.197-209, 2016 (Journal Indexed in SCI)
- **Influence of drill parameters on bone temperature and necrosis: A FEM modelling and in vitro experiments**
SEZEK S., Aksakal B., Karaca F.
COMPUTATIONAL MATERIALS SCIENCE, vol.60, pp.13-18, 2012 (Journal Indexed in SCI)
- **The Effects of Square and Circular Die-Orifices on the Performance of Combined Extrusion-Forging Process**
SEZEK S., Misirli C., Aksakal B., Can Y.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.21, pp.500-507, 2012 (Journal Indexed in SCI)
- **Effect of Die Radius on Blank Holder Force and Drawing Ratio: A Model and Experimental Investigation**
SEZEK S., Savas V., Aksakal B.
MATERIALS AND MANUFACTURING PROCESSES, vol.25, pp.557-564, 2010 (Journal Indexed in SCI)
- **Deformation and temperature behaviour during cold, warm and hot flat rolling of AA5454-O alloy**
SEZEK S., Aksakal B.
MATERIALS & DESIGN, vol.30, pp.3450-3459, 2009 (Journal Indexed in SCI)
- **Analysis of cold and hot plate rolling using dual stream functions**
SEZEK S., Aksakal B., Can Y.
Materials and Design, vol.29, pp.584-596, 2008 (Journal Indexed in SCI)
- **Forging of polygonal discs using the dual stream functions**
AKSAKAL B., SEZEK S., Can Y.
Materials and Design, vol.26, pp.643-654, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Dental İşlemlerde Kullanılan Frez Tiplerinden Birkaçının Sıcaklığa Etkisinin Sonlu Elemanlar Metodu İle Modellenmesi**
SEZEK S.
Firat Üniversitesi Mühendislik Bilimleri Dergisi, vol.28, pp.247-253, 2016 (Refereed Journals of Other Institutions)
- **TEMPERATURE CONTROLLED NEW DIE MODELLING IN ALUMINUM 6061 EXTRUSION AND ITS COMPARISON WITH CONVENTIONAL DIESBY USE OF FEM ANALYSIS**
SEZEK S.
International Journal of Modern Manufacturing Technologies, vol.7, pp.197-206, 2015 (Refereed Journals of Other Institutions)
- **ANALYSIS OF HIP PROSTHESIS PRODUCTION WITH FORGING USING THE FINITE ELEMENT METHOD**
Gahramanzadeh asl H., SEZEK S., ALSARAN A.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, pp.69, 2015 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Studying temperature variations that occurred during cold and hot rolling of AA5454-O alloy**
SEZEK S., AKSAKAL B.
26th International Baltic Conference on Materials Engineering, 2017, Kaunas, Lithuania, 26 - 27 October 2017, pp.45-51
- **Investigating Corrosion and Wear Resistance of AA5454 O Series After Its Severe Deformation by Rolling**
SEZEK S.
Modtech 2016 Iasi, Iasi, Romania, 15 - 18 June 2016
- **Investigating Corrosion and Wear Resistance of AA5454 O Series After Its Severe Deformation by Rolling**
SEZEK S.
Modtech 2016 Iasi, Iasi, Romania, 15 - 18 June 2016
- **TEMPERATURE CONTROLLED NEW DIE MODELLING IN ALUMINUM 6061 EXTRUSION AND ITS COMPARISON WITH CONVENTIONAL DIES BY USE OF FEM ANALYSIS**
SEZEK S.
Modtech 2015 Romania, Constanta, Romania, 17 - 20 June 2015, vol.7
- **Kompleks geometriye sahip kalça protezinin dövme yöntemiyle üretiminin Fem analizleri**
SEZEK S., GAHRAMANZADEH ASL H., ALSARAN A.
International Iron Steel Symposium, 2 - 04 April 2012
- **Ortopedik operasyonlardaki kemik delme işlemlerinde sıcaklık dağılım analizleri**
SEZEK S., AKSAKAL B., KARACA F.
IATS ELAZIĞ, 16 - 18 May 2011
- **Deformation and fixation analysis of oblique and transverse bone fractures**
SEZEK S., AKSAKAL B.
IATS-Elazig, 16 - 18 May 2011
- **Metal Şekillendirmede Nümerik Bir Metodla Otomasyona Yönelik Analizler**
AKSAKAL B., SEZEK S.
IV. Mühendislik Kongresi- URFA, Turkey, 6 - 08 June 2002

Supported Projects

EREN Z., KARAKAYA M. A. , KUNDAKÇI M., BAŞTÜRK E., SEZEK S., AKBULUT İ., Project Supported by Higher Education Institutions, Yeşil Kampüs için Akıllı Çözümler: Güneş Enerjili Geri Dönüşüm Konteynırları, 2019 - 2020

SEZEK S., KOÇAK A. C. , AKSOYA., ŞENGİL M. E. , KONAKLI M. F. , İNGEÇ F. M. , EMİR H. E. , ÇELEBİ A., ÖZDEMİR B., Project Supported by Higher Education Institutions, 2019 TÜBİTAK UAV Türkiye ve TEKnofest Savaşan İha yarışmalarına prototip İha üretimi ve katılımı., 2019 - 2019

TOTİK Y., BULAT M., TOPRAK B. İ. , SEZEK S., KOVACI H., GÖK S., HÜLAGÜ B., GÜRÜF G., TOP M. M. , ÇELİK A., et al., Project Supported by Higher Education Institutions, TÜBİTAK Alternatif Enerjili Araçlar Yarışması İçin Elektrikli Otomobil, Elektrik Motoru Üretimi ve Geliştirmesi, 2018 - 2018

SEZEK S., Project Supported by Higher Education Institutions, KALÇA PROTEZİNİN SICAK PRESS İLE MODELLENMESİ VE İMALATI, 2010 - 2012

Scientific Refereeing

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, March 2019

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, November 2017

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, May 2017

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, April 2017

Selected Engineering Problems, Other Indexed Journal, October 2016

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, January 2016

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, October 2015

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, February 2015

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, November 2011

TUBİTAK Project, 1505 - University-Industry Cooperation Support Program, Ataturk University, Turkey, January 2011

Invited Congress and Symposium Activities

MODELLING OF DENTAL DRILLS AND RESTORATION PROCESSES BY FINITE ELEMENT METHOD, Attendee, Elazığ, Turkey, 2018

Studying Temperature Variations that Occurred during Cold and Hot Rolling of AA5454-O Alloy, Attendee, Kaunas, Lithuania, 2017

Investigating Corrosion and Wear Resistance of AA5454 O Series After Its Severe Deformation by Rolling, Attendee, Iasi, Romania, 2016

TEMPERATURE CONTROLLED NEW DIE MODELLING IN ALUMINUM 6061 EXTRUSION AND ITS COMPARISON WITH CONVENTIONAL DIES BY USE OF FEM ANALYSIS, Attendee, Constanta, Romania, 2015

Modtech, Invited Speaker, Constanta, Romania, 2015

Kompleks geometriye sahip kalça protezinin dövme yöntemiyle üretiminin Fem analizleri, Attendee, Karabük, Turkey, 2012

Deformation and fixation analysis of oblique and transverse bone fractures, Attendee, Elazığ, Turkey, 2011

Ortopedik operasyonlardaki kemik delme işlemlerinde sıcaklık dağılım analizleri, Attendee, Elazığ, Turkey, 2011

Metal Şekillendirmede Nümerik Bir Metodla Otomasyona Yönelik Analizler, Attendee, Şanlıurfa, Turkey, 2002

Citations

Total Citations (WOS):91

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