

Prof. YAHYA IŞIK

Personal Information

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Education Information

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1996 - 2001

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1993 - 1995

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Turkey 1976 - 1980

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Associate Professor, Bursa Uludağ University, Teknik Bilimler Myo, Makine Ve Metal Teknolojileri, 2010 - 2018

Assistant Professor, Bursa Uludağ University, Teknik Bilimler Myo, Makine Ve Metal Teknolojileri, 2003 - 2010

Advising Theses

Işık Y., Talaslı imalatta dik kesme modelinin sonlu elemanlar metoduyla analizi, Postgraduate, E.ÖZTÜRK(Student), 2021

Işık Y., Comparison of machinability of cast irons with different mechanical properties, Postgraduate, A.TUZER(Student), 2021

Işık Y., The use and optimization of aluminum as a light weight material for mass reduction in vehicles, Postgraduate, R.ÇAĞLAYAN(Student), 2020

Işık Y., Developing an early warning system for automotive industry in order to detect and signalize the geometrical defects on the vehicles not yet coming out of assembly line, Postgraduate, U.ERDEM(Student), 2020

Işık Y., Optimization with alternative materials of the seats in the automotive sector, Postgraduate, M.GÖLEÇ(Student), 2019

Işık Y., Examination of working principles of wing doors of commercial vehicles and development of mechanical systems, Postgraduate, A.KÖSE(Student), 2019

Işık Y., Design and development of gear shift cable on manual automotive transmissions, Postgraduate, S.METİN(Student), 2019

ARTICLES PUBLISHED IN JOURNALS THAT ENTERED SCI, SSCI AND AHCI INDEXES

- I. **Optimum structural design of seat frames for commercial vehicles**
IŞIK Y.
Materialprufung, vol.63, no.2, pp.138-146, 2021 (Journal Indexed in SCI)
- II. **A novel approach to use internally cooled cutting tools in dry metal cutting**
IŞIK Y., KUŞ A., COŞKUN S., Ozdemir K., Cakir M. C.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.24, no.3, pp.239-246, 2017 (Journal Indexed in SCI)
- III. **Using internally cooled cutting tools in the machining of difficult-to-cut materials based on Waspaloy**
IŞIK Y.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.5, 2016 (Journal Indexed in SCI)
- IV. **ANALYSIS OF THE CUTTING TEMPERATURE AND SURFACE ROUGHNESS DURING THE ORTHOGONAL MACHINING OF AISI 4140 ALLOY STEEL VIA THE TAGUCHI METHOD**
MOTORCU A. R. , IŞIK Y., KUŞ A., ÇAKIR M. C.
MATERIALI IN TEHNOLOGIJE, vol.50, no.3, pp.343-351, 2016 (Journal Indexed in SCI)
- V. **Influence of cutting parameters on the chip-tool interface temperature during the turning of Waspaloy**
IŞIK Y., KUŞ A., Cakir M. C.
MATERIALS TESTING, vol.57, no.9, pp.783-789, 2015 (Journal Indexed in SCI)
- VI. **Thermocouple and Infrared Sensor-Based Measurement of Temperature Distribution in Metal Cutting**
KUŞ A., IŞIK Y., Cakir M. C. , COŞKUN S., Ozdemir K.
SENSORS, vol.15, no.1, pp.1274-1291, 2015 (Journal Indexed in SCI)
- VII. **An Experimental Investigation on Effect of Cutting Fluids in Turning with Coated Carbides Tool**
Isik Y.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.56, no.3, pp.195-201, 2010 (Journal Indexed in SCI)
- VIII. **Tool life and performance comparison of coated tools in metal cutting**
Isik Y.
International Journal of Materials and Product Technology, vol.39, pp.240-250, 2010 (Journal Indexed in SCI Expanded)
- IX. **Investigating the machinability of austempered ductile irons having different austempering temperatures and times**
Cakir M. C. , IŞIK Y.
MATERIALS & DESIGN, vol.29, no.5, pp.937-942, 2008 (Journal Indexed in SCI)
- X. **Investigating the machinability of tool steels in turning operations**
Isik Y.
Materials and Design, vol.28, no.5, pp.1417-1424, 2007 (Journal Indexed in SCI Expanded)
- XI. **The effects of austempering temperature and time onto the machinability of austempered ductile iron**
Cakir M. C. , Bayram A., Isik Y., Salar B.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.407, pp.147-153, 2005 (Journal Indexed in SCI)
- XII. **Finite element analysis of cutting tools prior to fracture in hard turning operations**
Cakir M. C. , Isik Y.
MATERIALS & DESIGN, vol.26, no.2, pp.105-112, 2005 (Journal Indexed in SCI)
- XIII. **Detecting tool breakage in turning aisi 1050 steel using coated and uncoated cutting tools**
Cakir M. C. , Isik Y.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.159, no.2, pp.191-198, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Experimental Analysis of Cutting Forces and Finite Element Simulation in Milling Operations**
Işık Y., Öztürk E.
International Journal of Mechanical Engineering, vol.8, no.11, pp.1-7, 2021 (Refereed Journals of Other Institutions)
- II. **Weight Optimization of Aluminum Alloys Used in Vehicles**
IŞIK Y., Tekin B., Yılmaz A. F. , Tatoğlu F., Öztürk D.
International Journal of Mechanical Engineering, vol.7, no.11, pp.13-21, 2020 (Refereed Journals of Other Institutions)
- III. **An Investigation of Working Principles and Developing Mechanical Systems of Passenger Doors of Commercial Vehicles**
Köse A., IŞIK Y.
International Journal of Mechanical Engineering, vol.6, no.3, pp.1-6, 2019 (Refereed Journals of Other Institutions)
- IV. **A MICRO SPRING PLUNGER GRIPPING MECHANISM DESIGN WITH PIEZOELECTRIC FORCE SENSOR FOR AUTOMATED HANDLING PROCESSES**
CANGAR T., IŞIK Y.
International Journal of Research in Engineering and Technology, vol.7, no.6, pp.41-48, 2018 (Refereed Journals of Other Institutions)
- V. **Effect of cutting speed on the PVD-Coated carbide insert in the machining on waspaloy**
IŞIK Y.
International Journal of Research in Engineering and Technology, vol.6, no.8, pp.48-52, 2017 (Refereed Journals of Other Institutions)
- VI. **The Performance Evaluation of Ceramic and Carbide Cutting Tools in Machining of Austempered Ductile Irons**
IŞIK Y.
Uludağ University, Journal of The Faculty of Engineering, vol.19, no.2, pp.67-76, 2014 (Refereed Journals of Other Institutions)
- VII. **Kaplamasız ve CVD Kaplamalı Kesici Takımların Performans Analizi**
Çakır M. C. , Işık Y.
Makine ve Metal Dergisi, no.139, pp.118-125, 2003 (Other Refereed National Journals)
- VIII. **Tornalama İşlemlerinde Hız Çeliği Kesici Takımların Kırılma Anının Tespiti**
Işık Y., Çakır M. C.
Bursa Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.7, no.1, pp.211-219, 2002 (National Refreed University Journal)
- IX. **Hız Çeliği Takımlar için Kesme Parametrelerinin Yüzey Pürüzlülüğüne Etkilerinin Deneysel Olarak İncelenmesi**
Işık Y., Çakır M. C.
Teknoloji Dergisi, Karabük Üniversitesi (Jestec), vol.4, no.1, pp.111-118, 2001 (National Refreed University Journal)
- X. **Tornalama İşlemlerinde Taylor Takım Ömrü Denklemine Deneysel Olarak İncelenmesi**
Işık Y., Çakır M. C.
Teknoloji Dergisi, Karabük Üniversitesi (Jestec), vol.3, no.4, pp.47-56, 2000 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A PNEUMATICALLY ACTUATED SPRING FORCE PLUNGER GRIPPING MECHANISM DESIGN WITH PIEZOELECTRIC FORCE SENSOR FOR AUTOMATED HANDLING PROCESSES IN AUTOMOTIVE INDUSTRY**
CANGAR T., GÖÇMEN A., IŞIK Y.
9th International Automotive Technologies Congress OTEKON 2018 7-8 May 2018, BURSA, 7 - 08 May 2018

- II. **Sertleştirilmiş AISI 4140 Çeliğinin Tornalanması İşlenmesinde Kesme Parametrelerinin ve Takım Kaplama Tipinin Etkilerinin İncelenmesi**
IŞIK Y., KUŞ A., MURAT D., ÇAKIR M. C.
8. Uluslararası Talaşlı İmalat Sempozyumu, Antalya, Turkey, 2 - 04 November 2017
- III. **İçten soğutmalı takım tutucu için farklı soğutma sıvılarının performanslarının değerlendirilmesi**
IŞIK Y., ÇAKIR M. C.
7. Uluslararası talaşlı imalat sempozyumu, İstanbul, Turkey, 3 - 05 November 2016
- IV. **An Experimental Investigation on Effect of Internally Cooled Cutting Tools in the Machining of Difficult to Cut Materials**
IŞIK Y., KUŞ A.
4. Annual International Conference on Industrial, Systems and Design Engineering, Athens, Greece, 20 - 23 June 2016
- V. **An experimental investigation on effect of internally cooled cutting tools in the machinnig of difficult to cut materials**
IŞIK Y., KUŞ A.
4. Annual international conference on industrial systems and design engineering, Atina, Greece, 20 - 23 June 2016
- VI. **The Design of Internally Cooled Tools in Orthogonal Metal Cutting**
IŞIK Y., KUŞ A., ÇAKIR M. C. , COŞKUN S.
3rd Annual International Conference on Industrial, Systems and Design Engineering, ATİNA, ATİNA, Greece, 22 - 25 June 2015
- VII. **Dik talaş kaldırma işlemlerinde içeriden soğutmalı takım tasarımı**
Işık Y., Kuş A., Çakır M. C. , Coşkun S.
5. Ulusal Talaşlı İmalat Sempozyumu, Bursa, Turkey, 23 - 25 October 2014
- VIII. **Yüksekokullarında Uluslararası Eğitime Yeni bir Yaklaşım 1 1 Çift diploma modeli Bursa**
KUŞ A., ARSLAN R., IŞIK Y., EZENTAŞ R.
I. Uluslararası mesleki eğitim ve öğretim sempozyumu, 2 - 04 September 2014
- IX. **The Effects of Cutting Parameters on Chip-Tool Interface Temperature and Surface Roughness in Turning of Waspaloy**
IŞIK Y., KUŞ A., ÇAKIR M. C.
16th International Conference on Machine Design and Production İZMİR, İzmir, Turkey, 30 June - 03 July 2014
- X. **İçten Soğutmalı Takım Tutucu Tasarımı ve Üretimi**
Işık Y., Kuş A., Çakır M. C. , Coşkun S.
IV. Bilgilendirme ve Ar-Ge günleri, Bursa, Turkey, 11 - 13 November 2013
- XI. **Otomotiv Endüstrisinde Kullanılan Takım Çeliklerinin İşlenebilirliği**
Çakır M. C. , Işık Y.
Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 21 - 23 June 2004, pp.54-64
- XII. **Finite Elements Analysis For Cutting Tools Prior To Fracture Breakage in Turning Operations**
Işık Y., Çakır M. C.
2nd International Conference on Responce Manufacturing, Gaziantep, Turkey, 9 - 13 September 2002, pp.32-44
- XIII. **A Real-Time Tool Breakage Detection System For Coated And Uncoated Cutting Tools in Turning Operations**
Çakır M. C. , Işık Y.
2nd International on Conference on Responce Manufacturing, Gaziantep, Turkey, 09 September 2002 - 13 November 2020, pp.223-231
- XIV. **Kaplamasız ve CVD Kaplamalı Kesici Takımların Aşınma Davranışları ve Performanslarının Deneysel Olarak İncelenmesi**
Işık Y., Çakır M. C.
Makina Tasarım ve İmalat Teknolojileri Kongresi Konya , Konya, Turkey, 2 - 03 November 2001, pp.58-66
- XV. **Takım Çeliklerinin Talaşlı İmalatında Kesme Kuvvetleri ile Takım Ömrü Arasındaki İlişkinin Deneysel Olarak İncelenmesi**
Işık Y., Çakır M. C.

9 th International Machine Design and Production Conference, Ankara, Turkey, 26 - 30 June 2000, pp.120-130

XVI. Torna Tezgahlarında Kesme Kuvvetlerinin Ölçülmesi ve Analizi için Bir Kuvvet Ölçer Tasarımı ve İmalatı

Çakır M. C. , Işık Y.

9. Mühendislik Sempozyumu, Süleyman Demirel Üniversitesi, Isparta, Turkey, 23 - 25 September 1996, pp.34-45

Supported Projects

IŞIK Y., KUŞ A., Project Supported by Higher Education Institutions, CNC Tezgâhlarda Ortogonal talaş kaldırma işlemlerinde soğutma sıvısı ve takımın içeriden soğutulmasının sıcaklık dağılımına etkilerinin deneysel olarak araştırılması, 2013 - 2015

Işık Y., Çakır M. C. , Project Supported by Higher Education Institutions, Otomotiv endüstrisinde kullanılan takım çeliklerinin kaplamalı kesici takımlar ile talaşlı imalatında optimum kesme parametrelerinin belirlenmesi ve takım ömrünün iyileştirilmesi, 2001 - 2004

Patent

Çakır M. C. , Işık Y., Kuş A., Coşkun S., İçten Soğutmalı Takım Tutucu, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2014 12468 A2 , Standard Registration, 2018

Citations

Total Citations (WOS):267

h-index (WOS):8