

Asst. Prof. Erkan Öztürk

Personal Information

Office Phone: [+90 0326 312 1919](tel:+9003263121919)

Fax Phone: [+90 0326 312 1919](tel:+9003263121919)

Email: erkan.ozturk@omu.edu.tr

Web: <https://avesis.omu.edu.tr/erkan.ozturk>

International Researcher IDs

ORCID: 0000-0002-7056-718X

Publons / Web Of Science ResearcherID: GDD-1441-2022

Yoksis Researcher ID: 118539

Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2015 - 2020

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Yl) (Tezli), Turkey 2012 - 2015

Undergraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2006 - 2011

Dissertations

Doctorate, Tornalama işlemi için kendinden soğutuculu akıllı kesici takım tasarımı imalatı ve performansının analizi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2021

Postgraduate, Prizmatik parçaların işlenmesinde kesme kuvvetlerinin analizi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Yl) (Tezli), 2015

Research Areas

Mechanical Engineering, Construction and Manufacturing

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Drilling performance of micro-textured twist drill bit for TI-6AL-4V alloy: Validated FEM and statistical approaches**

Öztürk E., KAYA K.

Journal of Manufacturing Processes, vol.115, pp.342-351, 2024 (SCI-Expanded)

- II. **Comparison of Thermal Behavior of Self-Designed Internally Cooled Cutting Tool for Various Heat Transfer Fluids-Statistic and Computational Fluid Dynamics Approach**

Öztürk E., Yıldızlı K.

JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME, vol.144, no.10, 2022

(SCI-Expanded)

- III. **FEM and statistical-based assessment of AISI-4140 dry hard turning using micro-textured insert**
Öztürk E.
JOURNAL OF MANUFACTURING PROCESSES, vol.81, pp.290-300, 2022 (SCI-Expanded)
- IV. **Investigation on an Innovative Internally Cooled Smart Cutting Tool with the Built-in Cooling-Control System**
Öztürk E., Yıldızlı K., SAĞLAM F.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.3, pp.2397-2411, 2021 (SCI-Expanded)
- V. **Design of an experimental setup to determine the coefficient of static friction of the inner rings in contact with the outer rings of radial spherical plain bearings**
Öztürk E., Yıldızlı K., Memmedov R., ÜLGEN A.
TRIBOLOGY INTERNATIONAL, vol.128, pp.161-173, 2018 (SCI-Expanded)
- VI. **Measured Cutting Forces in the Turning of Prismatic Parts at Different Spindle Speeds and Side Cutting Edge Angles**
Öztürk E., Yıldızlı K.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.43, no.9, pp.4635-4647, 2018 (SCI-Expanded)
- VII. **A new static calibration methodology for strain gage integrated dynamometers**
Öztürk E., Yıldızlı K.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.91, no.5-8, pp.1823-1838, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of Machinability of Al-4.5%Cu/TiB₂/3p MMC for Multi-Layer Coated Insert: Validated FEM and Statistical Approaches**
ÖZTÜRK E.
Mühendis ve Makina, vol.65, no.714, pp.49-77, 2024 (Peer-Reviewed Journal)
- II. **Design and manufacture of a sensor control the glasses of vehicles to protect forgotten life-beings inside vehicles**
Öztürk E., Kaygusuz S., SAĞLAM F., Yıldızlı K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.28, no.1, pp.26-36, 2022 (ESCI)
- III. **STATISTICAL EVALUATION OF MAINTENANCE DATA FOR CNC LATHES**
ÖZTÜRK E., ELEVİLİ S.
Dumlupınar Üniversitesi Sosyal Bilimler Dergisi, vol.0, no.EYİ 2013 Özel Sayısı, pp.351-364, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **(CHAPTER 179) MANAGEMENT AND RISK EVALUATION OF NANOTECHNOLOGY IN FOOD ANDFOOD SAFETY**
ERTAŞ ÖZTÜRK Y., BİLİCİ S., ÖZTÜRK E.
in: Researches on Science and Art in 21st Century Turkey, Prof. Hasan ARAPGIRLIOGLU, Assist. Prof. Atilla ATIK, Prof. Robert L. ELLIOTT, Assoc. Prof. Edward Turgeon, Editor, Gece Kitaplığı, Ankara, pp.1582-1589, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **A Novel Dynamometer Design for Bogie Suspension Balancement on Trams: Finite Elements and**

Statistical Approach

MALATYALIOĞLU İ. T., KELLEÇİ U., ÖZTÜRK E.

2th International Conference on Advances and Innovations in Engineering, 2023, Elazığ, Turkey, 21 - 23 September 2023, pp.663-671

II. Tribological Interaction Test Equipment for Rail Systems

KAYA M. A., DENGİZ C. G., ÖZTÜRK E., YILDIZLI K.

International Technology Sciences and Design Symposium, Turkey, 2 - 04 June 2022

III. SMART THERMOS DESIGN INTEGRATED WITH THERMOELECTRIC MODULE

ÖZTÜRK E., HİNDİSTAN A., YILDIZLI K.

5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, pp.555-563

Patent

Öztürk E., Cnc torna tezgâhları için akıllı kesici takım modülü., Patent, CHAPTER B Implementation of Operations;

Transport, The Invention Registration Number: 2020 06573 , Standard Registration, 2022

Öztürk E., RADYAL KÜRESEL MAFSALLARDA İÇ VE DIŞ HALKALAR ARASINDAKİ STATİK SÜRTÜNME KATSAYISINI

ÖLÇEN TEST DÜZENİĞİ, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials,

The Invention Registration Number: 2018 11958 , Standard Registration, 2022

Öztürk E., SMART CUTTER TOOL MODULE FOR CNC LATHES, Patent, CHAPTER B Implementation of Operations;

Transport, The Invention Recourse Number: PCT/TR2021/050387 , Standard Registration, 2021