

Asst. Prof. ÖMER BAYRAKTAR

Personal Information

Office Phone: [+90 312 202 8668](tel:+903122028668)

Email: omerbayraktar@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/omerbayraktar>

International Researcher IDs

ScholarID: oZSch6EAAAAJ

ORCID: 0000-0002-9858-5363

Publons / Web Of Science ResearcherID: AHB-5802-2022

ScopusID: 57192257253

Yoksis Researcher ID: 174989

Education Information

Doctorate, Gazi University, Teknoloji Fakültesi, İmalat Mühendisliği, Turkey 2016 - 2020

Undergraduate, Gazi University, Teknoloji Fakültesi, İmalat Mühendisliği, Turkey 2014 - 2016

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, İmalat Mühendisliği (YI) (Tezli), Turkey 2013 - 2016

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 2008 - 2012

Dissertations

Doctorate, Design, prototype production, mathematical modeling and motion simulation of a quad tilt rotor unmanned aerial vehicle, Gazi University, Teknoloji Fakültesi, 2020

Postgraduate, Gerdirme Aparatı Yardımıyla Karbon Fiber Takviyeli Kompozit Malzemelerin Şekillendirilmesi, Gazi University, Fen Bilimleri Enstitüsü, İmalat Mühendisliği (YI) (Tezli), 2016

Research Areas

Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Machine Theory and Dynamics, Mechanical, Aeronautical and Space Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Gazi University, Teknoloji Fakültesi, İmalat Mühendisliği, 2013 - Continues

Courses

MEKANİZMA TEKNİĞİ, Undergraduate, 2021 - 2022

MÜHENDİSLİK LABORATUVARI-IV, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation on the effect of corner error in WEDM taper cutting process of Ti-6Al-4V**
BAYRAKTAR Ö., ERHAN M. F.
International Journal of Computer Integrated Manufacturing, 2024 (SCI-Expanded)
- II. **Finite element simulation and experimental investigation on the effect of temperature on pseudoelastic behavior of perforated Ni-Ti shape memory alloy strips**
Altas E., Khosravi F., Gokkaya H., Maleki V. A., Aknay Y., ÖZDEMİR O., BAYRAKTAR Ö., Kandas H.
Smart Materials and Structures, vol.31, no.2, 2022 (SCI-Expanded)
- III. **A new approach to fabricate carbon fiber reinforced polymer with roller pre-stretching method and characterization of their mechanical properties**
BAYRAKTAR Ö., GÜLDAŞ A.
POLYMER COMPOSITES, vol.40, no.2, pp.489-495, 2019 (SCI-Expanded)
- IV. **Experimental study on the 3D-printed plastic parts and predicting the mechanical properties using artificial neural networks**
BAYRAKTAR Ö., UZUN G., ÇAKIROĞLU R., GÜLDAŞ A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.28, no.8, pp.1044-1051, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Optimization of Quadrotor's Thrust and Torque Coefficients and Simulation with Matlab/Simulink**
Bayraktar Ö., Gültaş A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.4, pp.1197-1204, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Polimer Esaslı Karbon Fiber Takviyeli Malzemenin Keten İpliği İle Güçlendirilmesi**
Filiz Yeraltı C., BAYRAKTAR Ö., GÜLDAŞ A.
8. Ulusal Havacılık ve Uzak Konferansı- UHUK'xx2020, Ankara, Turkey, 9 - 11 September 2020
- II. **Al 4,7Cu 2,3SiC katkılı kompozit malzemenin tel erezyon yöntemiyle işlenmesi**
BAYRAKTAR Ö., Atar E., ÖZÇATALBAŞ Y., KORKUT İ.
EurasianSciEnTech 2018, 22 - 23 November 2018
- III. **AISI S1 TAKIM ÇELİĞİNİN TEL EREZYON İLE İŞLENMESİNDE KESME PARAMETRELERİNİN YÜZEY MORFOLOJİSİNE ETKİSİ**
YILMAZ B., BAYRAKTAR Ö., GÜLDAŞ A., GÜLLÜ A.
8th INTERNATIONAL SYMPOSIUM ON MACHINING, 2 - 04 November 2017
- IV. **Examination of Wire Electrical Discharge Machining of AISI S1 (60WCrV8) Cold Work Tool Steel**
BAYRAKTAR Ö., GÜLDAŞ A., GÖKTAŞ M.
3rd International Conference on Engineering and Natural Science, 3 - 07 May 2017
- V. **Relation between Sink Marks Formation and Rib Dimension on Plastic Parts**
BAYRAKTAR Ö., GÜLDAŞ A., GÖKTAŞ M., DÜZGÜN M.
3rd International Conference on Engineering and Natural Science, 3 - 07 May 2017
- VI. **Vermiküler Grafitli Dökme Demirlere Uygulanan Delme Operasyonunda Kaplamanın Ve Uç Açısının Geometrik Tolerans Değerlerine Etkisinin Araştırılması**
YILMAZ B., BAYRAKTAR Ö., eyüp m., UZUN G., GÜLLÜ A.
16. uluslararası malzeme sempozyumu, 12 - 14 October 2016
- VII. **CGI Malzemesinin Delinmesinde Kesme Kuvvetleri Ve Yüzey Pürüzlülüğünün İncelenmesi**
BAYRAKTAR Ö., MERT E., YILMAZ B., UZUN G., GÜLDAŞ A.
16. Uluslararası Malzeme Sempozyumu (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016
- VIII. **Forming Of Carbon Fiber Reinforced Composite Materials By Using Of Stretch Apparatus**
BAYRAKTAR Ö., GÜLDAŞ A., GÖKTAŞ M.

International Conference on Engineering and Natural Science (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016

IX. Cooling of Plastic Injection Moulds Using Design Adaptive Cooling Canals

Göktaş M., Gültaş A., Bayraktar Ö.

International Conference on Engineering and Natural Science (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 25 - 28 May 2016

X. Optimization of Rib Geometry for Thermoplastic Parts

GÜLDAŞ A., BAYRAKTAR Ö., GÖKTAŞ M., KHAKZAD F.

International Conference on Engineering and Natural Science (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016

XI. COOLING OF PLASTIC INJECTION MOLDS USING CONFORMAL COOLING CANALS

Göktaş M., Bayraktar Ö., Gültaş A.

2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Skopje, Macedonia, 24 - 28 May 2016

XII. OPTIMISATION OF RIB DIMENSIONS DURING PLASTIC PART MODELLING

GÜLDAŞ A., GÖKTAŞ M., BAYRAKTAR Ö., KHAKZAD F.

2nd International Conference on Engineering and Natural Sciences (ICENS 2016, 24 - 28 May 2016

XIII. Vermiküler Grafitli Dökme Demirin Delinebilirliğinin İncelenmesi

MERT E., YILMAZ B., BAYRAKTAR Ö., UZUN G., KORKUT İ.

6. Ulusal Talaşlı İmalat Sempozyumu, Turkey, 5 - 07 November 2015

Metrics

Publication: 24

Citation (WoS): 91

Citation (Scopus): 98

H-Index (WoS): 2

H-Index (Scopus): 2

Non Academic Experience

Company, ELMA PLASTİK KALIP SAN VE TİC LTD ŞTİ., CNC

Elma Kalıp