

Res. Asst. YUNUS EMRE GÖNÜLAÇAR

Personal Information

Other Email: yunusemre.gonulacar@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/13661>

Address: Gazi Üniversitesi Mühendislik Fakültesi Eti, Yükseliş Sk. No. 5, 06570 Çankaya/Ankara

International Researcher IDs

ORCID: 0000-0002-1565-8564

Education

Doctorate, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2019 - Continues

Postgraduate, Batman University, Faculty Of Engineering-Architecture, Department Of Mechanical Engineering, Turkey 2015 - 2018

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2011 - 2015

Dissertations

Postgraduate, EFFECTS OF MINIMUM QUANTITY LUBRICATION (MQL) USAGE ON MACHINABILITY IN TURNING OF AISI 4140 MATERIAL, Batman University, Faculty Of Engineering-Architecture, Department Of Mechanical Engineering, 2018

Research Areas

Mechanical Engineering

Academic Positions

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2019 - Continues

Research Assistant, Siirt University, Faculty Of Engineering-Architecture, Department Of Mechanical Engineering, 2017 - 2019

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Effect of using a ZnO-TiO₂/water hybrid nanofluid on heat transfer performance and pressure drop in a flat tube with louvered finned heat exchanger**
Elibol E. A., GÖNÜLAÇAR Y. E., AKTAŞ F., Tigli B.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.149, no.15, pp.8665-8680, 2024 (SCI-Expanded)
- II. **Investigation of the effect of operating parameters on Nernst voltage in hydrogen-oxygen fuel cells**
Bilgili M., Gönülaçar Y. E.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.44, no.1, pp.59-69, 2024 (SCI-Expanded)
- III. **Experimental and statistical investigation of the effects of MQL, dry and wet machining on machinability and sustainability in turning of AISI 4140 steel**

Gürbüz H., Gönülaçar Y. E.

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, vol.236, no.5, pp.1808-1823, 2022 (SCI-Expanded)

IV. Optimization and evaluation of dry and minimum quantity lubricating methods on machinability of AISI 4140 using Taguchi design and ANOVA

Gurbuz H., Emre Gonulacar Y. E.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.235, no.7, pp.1211-1227, 2021 (SCI-Expanded)

V. Effect of MQL flow rate on machinability of AISI 4140 steel

Gurbuz H., Gonulacar Y. E., Baday S.

MACHINING SCIENCE AND TECHNOLOGY, vol.24, no.5, pp.663-687, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. Analysis of Experimental Values Obtained at Different Cutting Parameters and MQL Flows with S/N Ratios and ANN

GÜRBÜZ H., Gönülaçar Y. E.

Politeknik Dergisi, vol.24, no.3, pp.1093-1107, 2021 (ESCI)

II. INVESTIGATION OF EFFECTS OF DIFFERENT CUTTING AND MACHINING PARAMETERS ON SURFACE ROUGHNESS AND MAIN CUTTING FORCES VIA RESPONSE SURFACE METHOD

GÜRBÜZ H., Gönülaçar Y. E.

European Journal of Technique, vol.10, no.2, pp.431-443, 2020 (Peer-Reviewed Journal)

III. Investigation Of The Effect Of Minimum Quantity Lubrication On Milling Processes:Review

Gürbüz H., Baday Ş., Gönülaçar Y. E.

Batman Üniversitesi Yaşam Bilimleri Dergisi, vol.7, no.2, pp.59-79, 2017 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

I. An Experimental Study for Drying Process of the Leaves of Dragun arum(Dranculus) Plant

Gönülaçar Y. E., Balbay A.

6th International GAP Engineering Conference, Şanlıurfa, Turkey, 23 - 25 October 2018, pp.498-501

II. Design of a PID Digital Controlled Convective Type Drying System

Balbay A., Gönülaçar Y. E., Saka C., Selvitepe N.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.1129-1134

Funded Projects

Gürbüz H., Gönülaçar Y. E., Project Supported by Higher Education Institutions, AISI 4140 MALZEMESİNİN TORNALANMASINDA MİNİMUM MİKTARDA YAĞLAMA (MQL) KULLANIMININ İŞLENEBİLİRLİK ÜZERİNE ETKİSİ, 2017 - 2018

Metrics

Publication: 10

Citation (WoS): 7

Citation (Scopus): 43

H-Index (WoS): 2

H-Index (Scopus): 3