

Lect. PhD MEHTAP YAVUZ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GZG-2163-2022

ScopusID: 55789144100

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Education Information

Doctorate, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, Turkey 2011 - 2017

Postgraduate, Marmara University, Faculty Of Technical Education, Machine Education, Turkey 2007 - 2010

Undergraduate, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey 2007 - 2010

Undergraduate, Marmara University, Faculty Of Technical Education, Machine Education, Turkey 2003 - 2006

Associate Degree, Erciyes University, -----, Kocasinan Meslek Yüksekokulu, Turkey 2001 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Delme işlemlerinde takım geometrisinin etkilerinin deneysel ve teorik olarak araştırılması, Gazi University, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Makina ekipman seçimine aksiyomatik tasarım yaklaşımı, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of Mechanical Education, 2010

Research Areas

Renewable Energy Systems, Nuclear Energy, Alternative Energy Resources, Solar energy, Wind power, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Kayseri University, Yahyalı Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - Continues

Lecturer PhD, Cankiri Karatekin University, Vocational School, Department Of Electronics And Automation, 2010 - 2022

Academic and Administrative Experience

Assistant Director of Vocational School, Kayseri University, Yahyalı Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022
- Continues

Courses

SİSTEM ANALİZİ VE TASARIMI, Associate Degree, 2022 - 2023
MESLEKİ İNGİLİZCE-I , Associate Degree, 2023 - 2024
MESLEKİ İNGİLİZCE-II , Associate Degree, 2022 - 2023
MALZEME BİLGİSİ , Associate Degree, 2022 - 2023
MEKANİK SİSTEMLERİN İLKELER, Associate Degree, 2022 - 2023
NÜKLEER REAKTÖR ÇEŞİTLERİ VE İŞLETME TEKNİKLERİ , Associate Degree, 2022 - 2023
GÜNEŞ ENERJİSİ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2022 - 2023
ENERJİ FİZİĞİNE GİRİŞ, Associate Degree, 2022 - 2023
GİRİŞİMCİLİK-I, Associate Degree, 2022 - 2023
BİLGİSAYAR DESTEKLİ KATI MODELLEME, Associate Degree, 2022 - 2023
RÜZGAR GÜCÜ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the effects of drill geometry on drilling performance and hole quality**
Yavuz M., Gokce H., Ciftci I., Gökçe H., Yavas C., Şeker U.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.106, no.9-10, pp.4623-4633, 2020
(SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Cutting Parameters on Surface Roughness and Cutting Forces in Hard Turning of 1.2367 Hot Work Tool Steel**
Erdem S., ÖZDEMİR M., Rafighi M., Yavuz M.
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, vol.26, no.3, pp.1071-1077, 2023 (ESCI)
- II. **Investigation of the Relationship Between Power Consumption and Noise Level During Hard Turning of CBN Tools and DIN 1.2367 Steel**
Şahinoğlu A., Yavuz M., Akkaş M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.9, no.2, pp.262-271, 2021 (Peer-Reviewed Journal)
- III. **Evaluation of Surface Roughness Based on Cutting Parameters in Hard Turning of DIN 1.2367 Steel with CBN Tools**
Şahinoğlu A., Yavuz M., Akkaş M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.8, no.4, pp.948-958, 2020 (Peer-Reviewed Journal)
- IV. **AN INVESTIGATION INTO THE PERFORMANCE OF HSS DRILLS WHEN DRILLING COMMERCIALLY PURE MOLYBDENUM**
Gokce H., Yavuz M., Ciftci I.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDİSLİK VE FEN BİLİMLERİ DERGİSİ, vol.38, no.1, pp.61-70, 2020 (ESCI)
- V. **The Effect of Cutting Speed in Tapping Process with Commercial Purity Molybdenum Material HSS Tap**

Gökçe H., Yavuz M.

Gazi Mühendislik Bilimleri Dergisi, vol.5, no.3, pp.237-243, 2019 (Peer-Reviewed Journal)

VI. Effect of drill geometry on hole quality and cutting performance

Yavuz M., Gökçe H., Yavaş Ç., Korkut İ., Şeker U.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, no.5, pp.1051-1066, 2017 (Peer-Reviewed Journal)

VII. Dynamometer Design and Manufacturing for Cutting Force Definition on Machining Process

Gökçe H., Yavuz M., Karayel M.

Gazi Mühendislik Bilimleri Dergisi, vol.3, no.2, pp.27-32, 2017 (Peer-Reviewed Journal)

VIII. Verification with Finite Element Methods of Drilling Performance for Original Drill Geometry

Gökçe H., Yavuz M., Gökçe H., Şeker U.

Gazi Mühendislik Bilimleri Dergisi, vol.3, no.1, pp.27-34, 2017 (Peer-Reviewed Journal)

IX. Investigation of the Effect of Drill Geometry on Tool Wear and Chip Formation

Yavuz M., Gökçe H., Şeker U.

Gazi Mühendislik Bilimleri Dergisi, vol.3, no.1, pp.11-19, 2017 (Peer-Reviewed Journal)

X. Experimental shear stress analysis of the thin walled aluminum hollow shaft under torsion

Gurbuz R., Donertas M. A., Yavuz M.

Solid State Phenomena, vol.199, pp.303-308, 2013 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. INVESTIGATION OF THE EFFECTS OF DRILL GEOMETRY IN DRILLING OPERATION THROUGH EXPERIMENTAL AND FINITE ELEMENT METHOD

Yavuz M., Gökçe H., Yavaş Ç., Gökçe H., Şeker U.

10th INTERNATIONAL CONGRESS ON MACHINING, Antalya, Turkey, 7 - 09 November 2019, pp.304-314

II. THE INFLUENCE OF END MILL HELIX ANGLE ON SURFACE ROUGHNESS AND TEMPERATURE WHEN MACHINING Ti6Al4V

Çiftçi İ., Gökçe H., Yavuz M.

10th INTERNATIONAL CONGRESS ON MACHINING, Antalya, Turkey, 7 - 09 November 2019, pp.412-419

III. INVESTIGATION OF THE MACHINING OF COMMERCIALLY PURE MOLYBDENUM USED IN DEFENSE INDUSTRY

Yavuz M., Gökçe H., Çiftçi İ.

10th INTERNATIONAL CONGRESS ON MACHINING, Antalya, Turkey, 7 - 09 November 2019, pp.251-260

IV. ANALYSIS OF SHEAR FORCES AND TOOTH PROFILES IN COMMERCIAL PURITY MOLYBDENUM GUIDE SCREW OPENING PROCESS

Ersin Ç., Gökçe H., Yavuz M.

INTERNATIONAL ANKARA CONFERENCE ON SCIENTIFIC RESEARCHES, Ankara, Turkey, 4 - 06 October 2019, pp.351-361

V. THE EFFECT OF GUIDE GEOMETRY ON SCREW PROFILE IN PURE MOLIBDENE SCREW OPENING PROCESS

Ersin Ç., Gökçe H., Yavuz M.

INTERNATIONAL ANKARA CONFERENCE ON SCIENTIFIC RESEARCHES, Ankara, Turkey, 4 - 06 October 2019, pp.340-350

VI. A RESEARCH ON THE INVESTIGATION OF THE MACHINABILITY OF Ti6Al4V ALLOY

Gökçe H., Yavuz M.

3'rd International Symposium on Industrial Design & Engineering(ISIDE 2018), Antalya, Turkey, 22 - 24 November 2018, pp.116-224

VII. MATKAP GEOMETRİSİNİN OLUŞTURULMASINDA PARAMETRİK MODELLEME YAKLAŞIMI

Gökçe H., Yavuz M., Şeker U.

8th INTERNATIONAL SYMPOSIUM ON MACHINING, Antalya, Turkey, 2 - 04 November 2017, pp.2-17

VIII. Matkap Geometrisinin Delme Performansına Etkisinin Gri İlişkisel Analizi İle Değerlendirilmesi

Yavuz M., Gökçe H., Güngör F., Yavaş Ç., Korkut İ., Şeker U.

18. Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.221-229

Supported Projects

YAVUZ M., ÖZSOLAK O., POLAT Ş., BİBERCİ M. A., Project Supported by Higher Education Institutions, Rüzgar Gücü Potansiyeli Yüksek Kayseri Yahyalı Bölgesinde Yatay Eksenli ve 3 Kanatlı Rüzgar Türbini Tasarımı ve Prototip Üretimi, 2023 - Continues

Yavuz M., Project Supported by Higher Education Institutions, Kriyojenik Soğutma İşlemi Uygulanmış Aısı 4140 Malzemenin Cbn Takımla İşlenmesinde, Yüzey Pürüzlülüğü Ve Takım Aşınması Etkilerinin İncelenmesi, 2020 - 2020

Çiftçi İ., Yavuz M., Gökçe H., Project Supported by Higher Education Institutions, Ti6Al4V Titanyum Alaşımının Parmak Freze ile İşlenmesinde Helis Açısının Takım Aşınmasına Etkisinin İncelenmesi, 2019 - 2020

Yavuz M., Gökçe H., Project Supported by Higher Education Institutions, Savunma Sanayisinde Kullanılan Ticari Saflıktaki Molibdenin İşlenebilirliğinin İncelenmesi, 2019 - 2019