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Publons / Web Of Science ResearcherID: C-4821-2017

ScopusID: 57210473174

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Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Bölümü, Turkey 2016 - 2022

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI), Turkey 2014 - 2016

Undergraduate, İstanbul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2007 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, SMAT İÇİN TİTREŞİM PLATFORMU TASARIMI VE PROSES PERFORMANSININ DENEYSEL VE NÜMERİK ANALİZİ, Kocaeli University, Fen Bilimleri Enstitüsü, 2022

Postgraduate, AA6061-T6 ıslı işlemeli alaşımlarının ultrasonik talaşlı delinmesinde konvansiyonel yönteme göre kuvvet ve yüzey özelliklerinin analizi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI), 2016

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2023 - Continues

Courses

Vibration of Rotating Machines, Undergraduate, 2023 - 2024

Machine Dynamics, Undergraduate, 2023 - 2024

Jury Memberships

Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Understanding the effect of solid lubricants on scratch behavior in epoxy resins: An experimental and statistical approach**
Ceylan R., Ozun E., Özaim Toker P., Korkusuz O. B., Yarar E., Fidan S., Bora M. Ö., Sımmazçelik T.
POLYMER COMPOSITES, vol.0, no.0, pp.1-18, 2024 (SCI-Expanded)
- II. **Investigation of the effect of thermal aging and wear test parameters on the wear behavior of glass fiber (GF) reinforced epoxy composites**
Şahin A. E., Yarar E., Bora M. Ö., Yilmaz T.
POLYMER COMPOSITES, vol.1, no.1, pp.1-13, 2024 (SCI-Expanded)
- III. **Thermal aging effect on mechanical properties of polyamide 6 matrix composites produced by TFP and compression molding**
Yarar E., Şahin A. E., Kara H., Çep E. B., Bora M. Ö.
POLYMER COMPOSITES, vol.45, no.3, pp.2869-2884, 2024 (SCI-Expanded)
- IV. **Thermal aging effect of polyamide 6 matrix composites produced by Tailor Fiber Placement (TFP) under compression molding on sliding wear properties**
Sahin A. E., Yarar E., Kara H., Cep E. B., Bora M. Ö., Yilmaz T.
POLYMER COMPOSITES, vol.45, no.1, pp.98-110, 2024 (SCI-Expanded)
- V. **Reducing delamination risk with response surface methodology-supported drilling analysis for Nomex® aramid fiber composites**
Yarar E.
JOURNAL OF COMPOSITE MATERIALS, vol.1, no.1, pp.1-11, 2023 (SCI-Expanded)
- VI. **The comparison of pullout strengths of various producing methods for internal screw threads of additive manufactured metal parts**
YARAR E., ERTÜRK A. T., Ozer G., Bulduk M. E.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.23, no.4, 2023 (SCI-Expanded)
- VII. **Exploring the effects of thermal aging on scratch resistance of carbon fiber reinforced composite materials: A comprehensive study**
Bulçak T. D., Bora M. Ö., Fidan S., Yarar E., Akagündüz E.
POLYMER COMPOSITES, vol.44, no.10, pp.7084-7101, 2023 (SCI-Expanded)
- VIII. **Comparative Analysis in Drilling Performance of AA7075 in Different Temper Conditions**
YARAR E., ERTÜRK A. T., KOÇ F. G., Vatansever F.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.32, pp.7721-7736, 2023 (SCI-Expanded)
- IX. **Post Process Drilling of AlSi10Mg parts by Laser Powder Bed Fusion**
Ertürk A. T., Yarar E., Özer G., Bulduk M. E.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.1, no.1, pp.1-10, 2023 (SCI-Expanded)
- X. **Comparative Analysis in Drilling Performance of AA7075 in Different Temper Conditions**
Yarar E., Ertürk A. T., Koç F. G., Vatansever F.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.32, pp.1-19, 2022 (SCI-Expanded)
- XI. **Experimental and Numerical Vibration Analysis of Surface Mechanical Attrition Treatment**
Yarar E., Ertürk A. T., Açıkgöz Ç., Karabay S.
JVC/JOURNAL OF VIBRATION AND CONTROL, vol.28, pp.1-17, 2022 (SCI-Expanded)

- XII. **Effect of Vibration Parameters on the Shot Velocity in SMAT Process Using Dynamic Finite Element Analysis**
 Yarar E., Ertürk A. T.
Scientia Iranica, vol.1, no.1, pp.1-21, 2022 (SCI-Expanded)
- XIII. **A comparative study of mechanical and machining performance of polymer hybrid and carbon fiber epoxy composite materials**
 ERTÜRK A. T., YARAR E., Vatansever F., ŞAHİN A. E., Kilincel M., Alpay Y. O.
POLYMERS & POLYMER COMPOSITES, vol.29, no.9_SUPPL, 2021 (SCI-Expanded)
- XIV. **Dynamic Finite Element Analysis on Single Impact Plastic Deformation Behavior Induced by SMAT Process in 7075-T6 Aluminum Alloy**
 YARAR E., ERTÜRK A. T., KARABAY S.
Metals and Materials International, vol.27, no.8, pp.2600-2613, 2021 (SCI-Expanded)
- XV. **Investigation of the Microstructure and Mechanical Characteristics of Lattice Structures Produced by Laser Powder Bed Fusion Method**
 Ertürk A. T., Bulduk M. E., Tarakçı G., Özer G., Yarar E.
Metals And Materials International, vol.27, no.6, pp.1-15, 2021 (SCI-Expanded)
- XVI. **A Comparative Study of Mechanical and Machining Performance of Polymer Hybrid and Carbon Fiber Epoxy Composite Materials**
 Ertürk A. T., Yarar E., Vatansever F., Şahin A. E., Kilinçel M., Alpay Y. O.
Polymers & Polymer Composites, vol.29, pp.1-10, 2021 (SCI-Expanded)
- XVII. **Effects of cutting temperature and process optimization in drilling of GFRP composites**
 Erturk A. T., Vatansever F., Yarar E., Guven E. A., Sinmazçelik T.
JOURNAL OF COMPOSITE MATERIALS, vol.55, no.2, pp.235-249, 2021 (SCI-Expanded)
- XVIII. **Investigation of the effects of ultrasonic assisted drilling on tool wear and optimization of drilling parameters**
 Yarar E., Karabay S.
CIRP Journal of Manufacturing Science and Technology, vol.31, pp.265-280, 2020 (SCI-Expanded)
- XIX. **Machining behavior of multiple layer polymer composite bearing with using different drill bits**
 ERTÜRK A. T., VATANSEVER F., YARAR E., KARABAY S.
Composites Part B: Engineering, vol.176, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of Natural Frequencies for Early Damage Detection in CFRP Shafts using RSM-Based Frequency Contour Plots**
 Yarar E.
International Journal of 3D Printing Technologies and Digital Industry, vol.7, no.3, pp.532-540, 2023 (Peer-Reviewed Journal)
- II. **Multi-response optimization and machinability research of forging and heat treatment parameters in piston production**
 Yarar E., Koç F. G., Angigun F., Demirci S., Makas T.
MULTISCALE AND MULTIDISCIPLINARY MODELING EXPERIMENTS AND DESIGN, vol.6, no.2, pp.305-317, 2023 (ESCI)
- III. **Multiple-Shot Impact Model for Vibration-Assisted SMAT Process**
 Yarar E., Ertürk A. T.
Key Engineering Materials, vol.905, pp.3-8, 2022 (Scopus)
- IV. **A Numerical Investigation of a Single-Shot Impact Effects on Plastic Deformation of Titanium Alloys**
 Yarar E., Ertürk A. T.
Advances in Science and Technology, no.105, pp.119-124, 2021 (Peer-Reviewed Journal)
- V. **PID ve Bulanık Mantık Kontrol Sistemleri ile İki Tekerlekli KendiniDengeleyebilen Robotik Sistem**

Tasarımı

PEÇE F., YARAR E., KARABAY S.

Kocaeli Üniversitesi Fen Bilimleri Dergisi, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **DH36 Çelik Bir Yapı Üzerinde İletilebilirlik Yaklaşımı İle Hasar Tespit Metodolojisinin Uygulanması**
KARA M., YARAR E., KARABAY S.
ASES International Health, Engineering and Sciences Congress, Turkey, 07 May 2022
- II. **Multiple-Shot Impact Model for Vibration-Assisted SMAT Process**
YARAR E., ERTÜRK A. T.
9th Annual International Conference on Material Science and Engineering, ICMSE 2021, Virtual, Online, 22 - 24 July 2021, vol.905 KEM, pp.3-8
- III. **KAĞIT İŞLETMELERİNE KESTİRİMCİ BAKIM UYGULAMALARI ve TİTREŞİMANALİZİ**
Dereoğlu F., YARAR E., KARABAY S.
International Marmara Sciences Congress (Spring) 2020, 19 - 20 June 2020
- IV. **Optimization of Cutting Parameters with Taguchi Method for Drilling of Composites**
Yarar E., Vatansever F., Ertürk A. T., Karabay S.
IV. International Academic ResearchCongress (INES), Antalya, Turkey, 30 October - 03 November 2018
- V. **Dövme Çeliklerde Üretim Parametrelerinin İşlenebilirliğe Etkisi**
ÇÖL M., KOÇ F. G., YARAR E., ANGİGÜN F., TÜRKAN A., MAKAS T.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.1376-1381
- VI. **THE EFFECTS OF ULTRASONIC ASSISTED DRILLING ON TOOL WEAR**
YARAR E., KARABAY S.
II. INTERNATIONAL ACADEMIC RESEARCH CONGRESS, 18 - 21 October 2017
- VII. **Forgability of Aluminum 7075 Alloy in Closed Die**
YARAR E., GÜVEN E. A., BALCI E., KARABAY S., ELTUT S. B.
II. INTERNATIONAL ACADEMICRESEARCH CONGRESS, 18 - 21 October 2017
- VIII. **EXPERIMENTAL STUDY ON ULTRASONIC ASSISTED DRILLING OF AA6061-T6**
YARAR E., KARABAY S.
II. INTERNATIOANL ACADEMIC RESEARCH CONGRESS, 18 - 21 October 2017
- IX. **The effects on the surface roughness of Tool coating in Drilling of AA6061-T6**
YARAR E., KARABAY S., GÜVEN E. A.
III International Conference on Engineering an Natural Science, Budapest, Hungary, 3 - 07 May 2017, vol.2, pp.546
- X. **Forging Analysis Of AA2014 Alloy Under Different Conditions By Using Finite Elements Method**
GÜVEN E. A., YARAR E., KARABAY S.
III International Conference on Engineering an Natural Science, Budapest, Hungary, 3 - 07 May 2017, vol.2, pp.238
- XI. **Ultrasonic Assisted Drilling of Aluminium 7075 T6**
Yarar E., Karabay S.
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016

Supported Projects

ERTÜRK A. T., YARAR E., VATANSEVER F., Project Supported by Higher Education Institutions, F T4 ve T6 ısıl işlemeli 7075 alüminyum合金ının titreşimli delinmesinde farklı matkap uşlarının performanslarının karşılaştırılması, 2020 - 2021
KARABAY S., YARAR E., Project Supported by Higher Education Institutions, Mekanik Titreşim Tekniği İle Yüzey Nanokristalizasyonu Ve Mekanik Özelliklerin Geliştirilmesi, 2019 - 2020

Metrics

Publication: 35

Citation (WoS): 102

Citation (Scopus): 115

H-Index (WoS): 4

H-Index (Scopus): 5