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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 (Yl), Turkey 2014 - 2016
Undergraduate, Istanbul 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 ısıl işlemli al alaşımlarının ultrasonik talaşlı delinmesinde konvansiyonel yönteme göre kuvvet ve yüzey özelliklerinin analizi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Yl), 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

System 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., Özzaim Toker P., Korkusuz O. B., Yarar E., Fidan S., Bora M. Ö., Sınmazçelik 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., Yılmaz 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., Kılınçel 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., Sınmazçelik 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 İletilebilirlilk 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 İŞLETMELERİNDE 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 işlemli 7075 alüminyum alaşımının titreşimli delinmesinde farklı matkap uçlarının 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

Koç F. G., Yarar E., Ergün E., TUBITAK Project, Otomotiv Sanayisine Yönelik 7xxx Serisi Alüminyum Taşıyıcı Parçalar İçin Sıcak Dövme Prosesi ve Isıl İşlem Parametrelerinin Geliştirilmesi, 2018 - 2020

Metrics

Publication: 35
Citation (WoS): 102
Citation (Scopus): 112
H-Index (WoS): 4
H-Index (Scopus): 5