

Lect. PhD Beril GÜMÜŞ

Personal Information

Office Phone: [+90 212 383 8016](tel:+902123838016)

Email: beker@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/beker>

International Researcher IDs

ORCID: 0000-0002-4185-4470

Publons / Web Of Science ResearcherID: AAF-7322-2021

ScopusID: 57199322959

Yoksis Researcher ID: 239620

Education Information

Doctorate, Marmara University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2006 - 2013

Postgraduate, Marmara University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2001 - 2004

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Rectorate, -, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental study of adhesively bonded joints with dissimilar composite laminates under different loading rates and ambient temperatures**
Erbayrak E., Gumus B. E., Yuncuoglu E. U.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.45, no.5, 2023 (SCI-Expanded)
- II. **Effect of MA-g-PP addition on mechanical properties of polypropylene/hollow glass spheres/nanoclay composites**
Eker Gümüş B.
Polymer Bulletin, vol.80, no.3, pp.3405-3422, 2023 (SCI-Expanded)
- III. **Morphological, rheological, and mechanical properties of PLA/TPU/nanoclay blends compatibilized with epoxy-based Joncryl chain extender**
Kahraman Y., Özdemir B., Gümüş B., Nofar M.

- COLLOID AND POLYMER SCIENCE, vol.1, no.2, pp.1-12, 2022 (SCI-Expanded)
- IV. Thermal, structural and morphological properties of polypropylene and high density polyethylene polymer composites filled with waste urea formaldehyde
Yağcı Ö., Gümüş B., Taşdemir M.
POLYMER BULLETIN, 2022 (SCI-Expanded)
- V. Composition design of PLA/TPU emulsion blends compatibilized with multifunctional epoxy-based chain extender to tackle high impact resistant ductile structures
Kahraman Y., Alkan Göksu Y., Özdemir B., GÜMÜŞ B., Nofar M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.12, 2022 (SCI-Expanded)
- VI. Effects of Various Laser Treatments on Surface Characterization and Repair Bond Strength of Zirconia-Reinforced Lithium Silicate Ceramics
Benli M., Kılıç E., Gümüş B., Turkyilmaz I.
JOURNAL OF PROSTHODONTICS, vol.35, no.2, pp.137-244, 2022 (SCI-Expanded)
- VII. High-density polyethylene/artichoke leaf powder polymer composites: dynamic mechanical, morphological and thermal properties
Gümüş B., Yağcı Ö., Taşdemir M.
Iranian Polymer Journal, 2022 (SCI-Expanded)
- VIII. Impact of print bed build location on the dimensional accuracy and surface quality of parts printed by multi jet fusion
SAĞBAŞ B., Gümüş B. E., Kahraman Y., Dowling D. P.
JOURNAL OF MANUFACTURING PROCESSES, vol.70, pp.290-299, 2021 (SCI-Expanded)
- IX. An Experimental and Numerical Determination on Low-Velocity Impact Response of Hybrid Composite Laminate
ERBAYRAK E., YÜNCÜOĞLU E. U., KAHRAMAN Y., GÜMÜŞ B.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF MECHANICAL ENGINEERING, vol.45, no.3, pp.665-681, 2021 (SCI-Expanded)
- X. Thermal, structural and dynamical mechanical properties of hollow glass sphere-reinforced polypropylene composites
YAĞCİ Ö., Eker Gümüş B., TAŞDEMİR M.
POLYMER BULLETIN, vol.78, no.6, pp.3089-3101, 2021 (SCI-Expanded)
- XI. Can polylactic acid be a CAD/CAM material for provisional crown restorations in terms of fit and fracture strength?
Benli M., Eker-GÜMÜŞ B., Kahraman Y., Huck O., Özcan M.
Dental materials journal, vol.40, pp.772-780, 2021 (SCI-Expanded)
- XII. Surface characterization and bonding properties of milled polyetheretherketone dental posts
Benli M., Eker Gümüş B., Kahraman Y., Huck O., Özcan M.
Odontology, vol.108, no.4, pp.596-606, 2020 (SCI-Expanded)
- XIII. THERMAL, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF DENTAL POLYMERS FOR CLINICAL APPLICATIONS
Benli M., Gümüş B., Kahraman Y., Yağcı Ö., Ceylan Erdoğan D.
JOURNAL OF PROSTHODONTIC RESEARCH, vol.65, no.2021, pp.1-9, 2020 (SCI-Expanded)
- XIV. Investigations of Strain Rate Effects on the Mechanical Properties of Hybrid Composite Laminate Under Varying Temperatures
Erbayrak E., Gümüş B., Kahraman Y., Yüncüoğlu E. U.
Arabian Journal For Science And Engineering, pp.1-12, 2020 (SCI-Expanded)
- XV. Surface roughness and wear behavior of occlusal splint materials made of contemporary and high-performance polymers
Benli M., Gümüş B., KAHRAMAN Y., Gokcen-Rohlig B., Evlioglu G., Huck O., Ozcan M.
ODONTOLOGY, vol.108, no.2, pp.240-250, 2020 (SCI-Expanded)
- XVI. Dynamical Mechanical Properties of Polypropylene Composites Filled with Olive Pit Particles
EKER GÜMÜŞ B., YAĞCİ Ö., CEYLAN ERDOĞAN D., Taşdemir M.

- JOURNAL OF TESTING AND EVALUATION, pp.1-12, 2019 (SCI-Expanded)
- XVII. Effects of process parameters on the quality of PLA products fabricated by fused deposition modeling (FDM): surface roughness and tensile strength
 Altan M., Eryıldız M., Gümüş B., Kahraman Y.
 MATERIALS TESTING, vol.60, pp.471-477, 2018 (SCI-Expanded)
- XVIII. Characterization of hollow glass sphere reinforced epoxy composites: Dynamical mechanical analysis and morphology
 Altan M., Gümüş B., KAHRAMAN Y.
 Materialprüfung/Materials Testing, vol.59, no.3, pp.239-243, 2017 (SCI-Expanded)
- XIX. Sustainable machining of the magnesium alloy materials in the CNC lathe machine and optimization of the cutting conditions
 Eker Gümüş B., Ekici B., Kurt M., Bakır B.
 MECHANIKA, vol.20, pp.310-316, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. Akrilonitril Bütadien Stiren (ABS) Kopolimerinin Fiziksel Özelliklerine Çelik Tufalının Etkisi
 Ulutaş E., Taşdemir M., Gümüş B.
 İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.1287-1296, 2023 (Peer-Reviewed Journal)
- II. Yüksek Yoğunluklu Polietin (YYPE)/Çinko Borat Polimer Kompozitinin Mekanik Özelliklerine Grafenin Etkisi
 ULUTAŞ E., GÜMÜŞ B., TAŞDEMİR M.
 Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.1, pp.133-141, 2023 (Peer-Reviewed Journal)
- III. Effect of Montmorillonite Clay on Physical Properties of HDPE/ HGSComposites
 GÜMÜŞ B.
 Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, no.3, pp.735-744, 2021 (Peer-Reviewed Journal)
- IV. A RELIABILITY APPROACH FROM MECHANICAL ENGINEERING POINT OF VIEW
 EKER GÜMÜŞ B.
 Sigma Mühendislik ve Fen Bilimleri Dergisi, no.36, pp.629-644, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. OPTIMIZATION OF PROCESS PARAMETERS FOR TENSILE STRENGTH OF 3D PRINTED CARBON FIBER BASED POLYAMIDE SAMPLES
 Kaya E., Hartomacíoğlu S., Gümüş B.
 IV. International Science and Innovation Congress, İstanbul, Turkey, 27 - 30 July 2023, pp.9
- II. THERMAL, MORPHOLOGICAL AND DYNAMICAL MECHANICAL PROPERTIES OF HDPE/HGS/MMT NANOCOMPOSITES
 EKER GÜMÜŞ B.
 FOURTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2018 SUPPORTED BY JOURNAL OF THERMAL ENGINEERING INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY ICAME 2018 DECEMBER 19-, İstanbul, Turkey, 19 December 2018, pp.800-806
- III. Improvement in Adhesion of Sandwich Structures With Polypropylene Honeycomb Core Depending on Surface Roughness and Fabrication Method
 Sönmez M. E., Eker Gümüş B., Eryıldız M., Altan M.
 4th International Conference on Advances In Mechanical Engineering, ICAME 2018, İstanbul, Turkey, 19 - 21 December 2018, pp.1038-1045

- IV. CAM KÜRE VE NANOKİL KATKILI YÜKSEK YOĞUNLUKLU POLİETİLEN POLİMER KOMPOZİTLERİNİN MEKANİK ÖZELLİKLERİ
EKER GÜMÜŞ B.
13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 03 September 2018, pp.20-28
- V. A New Sheet Die Design Methodology to Eliminate Scrap Shedding Problems During Mass Production
EKER GÜMÜŞ B., Ekici B.
ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 12 July 2010, no.3, pp.243-249
- VI. Transit Connect Yük Sabitleme Kancasının Dayanım Analizi(Ford Otosan)
EKER GÜMÜŞ B.
Türkiye Abaqus Kullanıcılar Toplantısı SIMULIA, İstanbul, Turkey, 05 November 2008, vol.8, no.1, pp.5-10

Metrics

Publication: 29
Citation (WoS): 32
Citation (Scopus): 31
H-Index (WoS): 3
H-Index (Scopus): 3

Non Academic Experience

FORD OTOSAN ARAÇ MÜHENDİSLİĞİ
FRIGO MEKANİK TESİSAT VE TAAHHUT A.Ş.
Tekno Polimer Mühendislik Plastikleri Sanayi ve Ticaret AS