

## Lect. PhD Beril GÜMÜŞ

### Personal Information

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### International Researcher IDs

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### 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. **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)
- II. **Thermal, structural and morphological properties of polypropylene and high density polyethylene polymer composites filled with waste urea formaldehyde**  
Yağci Ö., Gümüş B., Taşdemir M.  
POLYMER BULLETIN, 2022 (SCI-Expanded)
- III. **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)
- IV. **Effects of Various Laser Treatments on Surface Characterization and Repair Bond Strength of**

## **Zirconia-Reinforced Lithium Silicate Ceramics**

Benli M., Kilic E., Gümüş B., Turkyilmaz I.

JOURNAL OF PROSTHODONTICS, vol.35, no.2, pp.137-244, 2022 (SCI-Expanded)

- V. **High-density polyethylene/artichoke leaf powder polymer composites: dynamic mechanical, morphological and thermal properties**  
Gümüş B., Yağci Ö., Taşdemir M.  
Iranian Polymer Journal, 2022 (SCI-Expanded)
- VI. **Impact of print bed build location on the dimensional accuracy and surface quality of parts printed by multi jet fusion**  
SAĞBAŞ B., Gumus B. E., Kahraman Y., Dowling D. P.  
JOURNAL OF MANUFACTURING PROCESSES, vol.70, pp.290-299, 2021 (SCI-Expanded)
- VII. **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)
- VIII. **Thermal, structural and dynamical mechanical properties of hollow glass sphere-reinforced polypropylene composites**  
YAĞCI Ö., Eker Gumus B., TAŞDEMİR M.  
POLYMER BULLETIN, vol.78, no.6, pp.3089-3101, 2021 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **THERMAL, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF DENTAL POLYMERS FOR CLINICAL APPLICATIONS**  
Benli M., Gümüş B., Kahraman Y., Yağci Ö., Ceylan Erdoğan D.  
JOURNAL OF PROSTHODONTIC RESEARCH, vol.65, no.2021, pp.1-9, 2020 (SCI-Expanded)
- XII. **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)
- XIII. **Surface roughness and wear behavior of occlusal splint materials made of contemporary and high-performance polymers**  
Benli M., Gumus B., KAHRAMAN Y., Gokcen-Rohlig B., Evlioglu G., Huck O., Ozcan M.  
ODONTOLOGY, vol.108, no.2, pp.240-250, 2020 (SCI-Expanded)
- XIV. **Dynamical Mechanical Properties of Polypropylene Composites Filled with Olive Pit Particles**  
EKER GÜMÜŞ B., YAĞCI Ö., CEYLAN ERDOĞAN D., Taşdemir M.  
JOURNAL OF TESTING AND EVALUATION, pp.1-12, 2019 (SCI-Expanded)
- XV. **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., Gumus B., Kahraman Y.  
MATERIALS TESTING, vol.60, pp.471-477, 2018 (SCI-Expanded)
- XVI. **Characterization of hollow glass sphere reinforced epoxy composites: Dynamical mechanical analysis and morphology**  
Altan M., Gümüş B., KAHRAMAN Y.  
Materialpruefung/Materials Testing, vol.59, no.3, pp.239-243, 2017 (SCI-Expanded)
- XVII. **Sustainable machining of the magnesium alloy materials in the CNC lathe machine and optimization**

**of the cutting conditions**

Eker Gümüş B.

Mechanika, vol.20, pp.310-316, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of Montmorillonite Clay on Physical Properties of HDPE/ HGS Composites**  
Gümüş B.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Dergisi, vol.21, no.3, pp.735-744, 2021 (Peer-Reviewed Journal)
- II. **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. **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
- II. **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
- III. **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
- IV. **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
- V. **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: 24

Citation (WoS): 32

Citation (Scopus): 23

H-Index (WoS): 3

H-Index (Scopus): 3