

## Asst. Prof. OKAN GÜL

### Personal Information

Office Phone: [+90 262 303 3439](tel:+902623033439)

Email: [okan.gul@kocaeli.edu.tr](mailto:okan.gul@kocaeli.edu.tr)

Web: <https://avesis.kocaeli.edu.tr/okan.gul>

### International Researcher IDs

ScholarID: dICOrSEAAAAJ

ORCID: 0000-0002-1617-1029

Publons / Web Of Science ResearcherID: F-4999-2018

ScopusID: 56585618300

Yoksis Researcher ID: 168078

### Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2013 - 2020

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2010 - 2013

Undergraduate, Anadolu University, Faculty Of Business Administration (Open Education), İşletme Pr. (Açıköğretim), Turkey 2007 - 2012

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2006 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Termoplastik poliester elastomer matrisli kompozitlerin tribolojik ve mekanik özelliklerinin elyaf ve partikül takviye malzemeleri varlığında iyileştirilmesi, Kocaeli University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Bölümü, 2020

Postgraduate, Plazma nitrürlenmiş Ti-6Al-4V alaşımının adhezif aşınma özelliklerinin incelenmesi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2013

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2022 - Continues

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Makina Mühendisliği, 2011 - 2022

## Courses

Statik, Undergraduate, 2021 - 2022

Mukavemet 2, Undergraduate, 2021 - 2022

Mukavemet 1, Undergraduate, 2021 - 2022

Dynamics, Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Study of the effect of hexagonal boron nitride addition to thermoplastic polyester elastomer composites reinforced with carbon, glass and basalt fibers**  
Gül O., Karşlı Yılmaz N. G., Gul C., Durmuş A., Yılmaz T.  
POLYMER BULLETIN, vol.81, no.17, pp.16219-16239, 2024 (SCI-Expanded)
- II. **Investigation of the Influence of Salt Remelting Process on the Mechanical, Tribological and Thermal Properties of 3D Printed PLA Materials**  
Yılmaz S., Eyri B., Gül O., Karşlı Yılmaz N. G., Yılmaz T.  
POLYMER ENGINEERING AND SCIENCE, vol.64, no.1, pp.17-30, 2024 (SCI-Expanded)
- III. **Comprehensive characterization of 3D-printed bamboo/poly(lactic acid) bio composites**  
YILMAZ S., GÜL O., EYRİ B., YILMAZ N., YILMAZ T.  
POLYMER ENGINEERING AND SCIENCE, vol.63, no.9, pp.2958-2972, 2023 (SCI-Expanded)
- IV. **Investigation of the effect of zeolite, bentonite, and basalt fiber as natural reinforcing materials on the material properties of PPS and CF-reinforced PPS**  
Kizil A., Dincer U., Yılmaz S., Gul O., Karşlı Yılmaz N. G., Yılmaz T.  
POLYMER ENGINEERING AND SCIENCE, vol.63, no.4, pp.1314-1322, 2023 (SCI-Expanded)
- V. **Properties of compatibilized rPET/PC Blends with epoxy based Chain Extender**  
Yılmaz S., Gul O., Yılmaz N. G., Yılmaz T.  
KGK-KAUTSCHUK GUMMI KUNSTSTOFFE, no.4, pp.62-67, 2022 (SCI-Expanded)
- VI. **Investigation of the Synergistic Effect of Addition the Hybrid Carbon Fiber, Graphene Nanoplatelet and Matrix Modifier to Poly(phenylene sulphide) on Physical Properties**  
Karşlı Yılmaz N. G., Gül O., Yılmaz T.  
FIBERS AND POLYMERS, vol.23, no.4, pp.1059-1067, 2022 (SCI-Expanded)
- VII. **Synergetic effect of graphene nanoplatelet, carbon fiber and coupling agent addition on the tribological, mechanical and thermal properties of polyamide 6,6 composites**  
Karatas E., Gül O., Karşlı N. G., Yılmaz T.  
COMPOSITES PART B-ENGINEERING, vol.163, pp.730-739, 2019 (SCI-Expanded)
- VIII. **Effects of coupling agent addition on the adhesive wear, frictional and thermal properties of glass fiber-reinforced polyamide 6,6 composites**  
Karşlı Yılmaz N. G., Yılmaz T., Gül O.  
POLYMER BULLETIN, vol.75, no.10, pp.4429-4444, 2018 (SCI-Expanded)
- IX. **Effect of chain extender and terpolymers on tensile and fracture properties of polyamide 6**  
Yılmaz S., Gül O., Yılmaz T.  
POLYMER, vol.65, pp.63-71, 2015 (SCI-Expanded)
- X. **Effect of CBC and G-POSS on Tribological Behaviour of Polyamide 6 and Short Glass Fiber Reinforced Polyamide 6 Composites**  
Gül O., Yılmaz S., Yılmaz T.  
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.1121-1123, 2015 (SCI-Expanded)
- XI. **The Effect of Low Temperature Plasma Nitriding on Wear Resistance of Ti6Al4V Alloy**  
GÜL O., SARI N. Y., SINMAZÇELİK T.  
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.491-493, 2014 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis of The Mechanical Properties of Inconel 718**  
Korkmaz Ç., Gül O.  
5th International Conference on Applied Engineering and Natural Sciences (ICAENS 2023), Konya, Turkey, 10 - 12 July 2023, pp.673-678
- II. **Stress Analysis of Belt Conveyor Roller Tube**  
Düzenli A., Gül O.  
5th International Conference on Applied Engineering and Natural Sciences (ICAENS 2023), Konya, Turkey, 10 - 12 July 2023, pp.659-663
- III. **Office Seat Design and Analysis**  
Yaltraklı M. B., Gül O.  
5th International Conference on Applied Engineering and Natural Sciences (ICAENS 2023), Konya, Turkey, 10 - 12 July 2023, pp.900-906
- IV. **Bicycle Frame Design and Structural Analysis**  
İnce K., Gül O.  
5th International Conference on Applied Engineering and Natural Sciences (ICAENS 2023), Konya, Turkey, 10 - 12 July 2023, pp.688-691
- V. **Static Structural Analysis of a Skateboard Wheel With Different Materials**  
Küçük A. K., Gül O.  
1st International Conference on Pioneer and Innovative Studies (ICPIS), Konya, Turkey, 5 - 07 June 2023, pp.293-296
- VI. **Effect of Radius On Deep Drawing Stress Analysis**  
Özbek R., Gül O.  
1st International Conference on Pioneer and Innovative Studies (ICPIS), Konya, Turkey, 5 - 07 June 2023, pp.374-378
- VII. **Composite Materials Used In Helicopter Fuselage And Ansys Analysis**  
Köse H. H., Gül O.  
1st International Conference on Pioneer and Innovative Studies (ICPIS), Konya, Turkey, 5 - 07 June 2023, pp.322-327
- VIII. **Design and Static Analysis Of A Phone Holder With Powerbank Unit**  
Işın M., Gül O.  
1 st International Conference on Pioneer and Innovative Studies (ICPIS), Konya, Turkey, 5 - 07 June 2023, pp.399-405
- IX. **Shock Load Damping Analysis Using A Vibration Shock Damping Element On Military Ship**  
ŞENTÜRK K., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July 2022
- X. **Design and Analysis of An Automobile Stabilizer Bar**  
MENDİ B., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July 2022
- XI. **Design And Stress Analysis Of Universal Jack For Automobiles And Light Commercial Vehicles**  
ZORLU F., İPEK B., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July 2022
- XII. **Design And Analysis Of A Connecting Rod Of Vehicles**  
DURSUN M., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July 2022
- XIII. **Wing Design and Analysis of Fixed Wing Male UAV (Unmanned Aerial Vehicle)**  
DEMİREL T. B., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July

2022

- XIV. **Static Structural Analysis of a Skateboard with Different Deck Thicknesses**  
ÇAYLAK U. D., GÜL O.  
3rd International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Konya, Turkey, 20 July 2022
- XV. **STRESS ANALYSIS OF A TRAILER FIXED AXLE**  
Akgün H. İ., Gül O.  
7. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 18 - 19 December 2021
- XVI. **FRONT LOWER SUSPENSION ARM ANALYSIS USING ANSYS TOPOLOGY OPTIMIZATION**  
Yağınöz E., Aslan B., Gül O.  
7. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 18 - 19 December 2021
- XVII. **BALLISTIC ANALYSIS: SIMULATION TO EXAMINE THE IMPACT OF A BULLET ON AN ALUMINUM PLATE**  
Demir Ş., Gül O.  
3. INTERNATIONAL ANKARA MULTIDISCIPLINARY STUDIES CONGRESS, Ankara, Turkey, 5 - 07 December 2021
- XVIII. **Effects of Boric Acid Addition on the Mechanical, Tribological and Thermal Properties of Thermoplastic Polyester Elastomer**  
GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020), 7 - 09 October 2020
- XIX. **Investigation the Properties of Basalt/Glass Fiber Reinforced Thermoplastic Polyester Elastomer in the Presence of Hexagonal Boron Nitride**  
GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020), 7 - 09 October 2020
- XX. **Pumice Addition to Basalt/Carbon/Glass Fiber Reinforced TPE Matrix Composites: Mechanical, Tribological and Thermal Properties**  
KARTAL Y. G., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
International Marmara Sciences Congress (IMASCON Spring 2020), 19 - 20 June 2020
- XXI. **TRIBOLOGICAL AND THERMOMECHANICAL PROPERTIES OF BENTONITE AND CARBON FIBER REINFORCED PPS MATRIX COMPOSITES**  
KIZIL A., DİNÇER U., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
4th International Symposium on Composite Materials (KOMPEGE 2018), İzmir, Turkey, 6 - 08 September 2018
- XXII. **INVESTIGATION THE TRIBOLOGICAL AND THERMOMECHANICAL PROPERTIES OF WOOD-FLOUR AND BASALT FIBER REINFORCED POLY(LACTIC ACID) MATRIX HYBRID COMPOSITES**  
Gül O., Kızıl A., Dinçer U., Karşlı Yılmaz N. G., Yılmaz T.  
4th International Symposium on Composite Materials (KOMPEGE 2018), İzmir, Turkey, 6 - 08 September 2018
- XXIII. **EFFECT OF ZEOLITE ADDITION ON THE MECHANICAL AND THERMAL PROPERTIES OF BASALT FIBER REINFORCED PPS MATRIX COMPOSITES**  
GÜL O., KIZIL A., DİNÇER U., KARSLI YILMAZ N. G., YILMAZ T.  
4th International Symposium on Composite Materials (KOMPEGE 2018), İzmir, Turkey, 6 - 08 September 2018
- XXIV. **Zeolite Addition to Basalt Fiber Reinforced PPS Matrix Composites: Investigation the Tribological and Thermomechanical Properties**  
DİNÇER U., KIZIL A., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
V. International Multidisciplinary Congress of Eurasia, V. International Multidisciplinary Congress of Eurasia (IMCOFE), Barcelona, Spain, 24 - 26 July 2018
- XXV. **Investigation the Mechanical and Thermal Properties of TPE in the Presence of Basalt Fiber and Boron Oxide Hybrid Addition**  
GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
V. International Multidisciplinary Congress of Eurasia, V. International Multidisciplinary Congress of Eurasia (IMCOFE), Barcelona, Spain, 24 - 26 July 2018

- XXVI. **Effect of Bentonite Addition on the Mechanical and Thermal Properties of Carbon Fiber Reinforced PPS Matrix Composites**  
KIZIL A., DİNÇER U., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
V. International Multidisciplinary Congress of Eurasia, V. International Multidisciplinary Congress of Eurasia (IMCOFE), Barcelona, Spain, 24 - 26 July 2018
- XXVII. **Investigation the Tribological and Thermomechanical Properties of Bentonite and Basalt Fiber Reinforced PPS Matrix Composites**  
KIZIL A., DİNÇER U., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
2ND INTERNATIONAL CONFERENCE ON TRIBOLOGY (TURKEYTRIB'18), 18 - 20 April 2018
- XXVIII. **Zeolite and Carbon Fiber Reinforced PPS Matrix Hybrid Composites: Tribological and Thermomechanical Properties**  
DİNÇER U., KIZIL A., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
2ND INTERNATIONAL CONFERENCE ON TRIBOLOGY (TURKEYTRIB'18), İstanbul, Turkey, 18 - 20 April 2018
- XXIX. **Effects of Basalt Fiber and Boron Oxide Hybrid Addition on Adhesive Wear and Thermomechanical Properties of TPE Matrix Composites**  
GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
2ND INTERNATIONAL CONFERENCE ON TRIBOLOGY (TURKEYTRIB'18), İstanbul, Turkey, 18 - 20 April 2018
- XXX. **Mechanical, Thermal and Morphological Properties of Carbon Fiber and Graphene Nanoplatelet Reinforced Polyamide 6,6 Hybride Composites: Effect of Chain Extender Addition**  
KARATAŞ E., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
International Academic Research Congress-INES 2017, 18 - 21 October 2017
- XXXI. **Investigation the Adhesive Wear, Mechanical and Thermal Properties of Polyamide 6,6 in the Presence of PBO, CBC and POSS Chain Extender**  
GÜL O., KARATAŞ E., KARSLI YILMAZ N. G., YILMAZ T.  
International Academic Research Congress-INES 2017, 18 - 21 October 2017
- XXXII. **Effects of Coupling Agent Addition on the Fracture Toughness, Mechanical, Thermal and Morphological Properties of Glass Fiber Reinforced Polyamide 6,6 Matrix Composites**  
GÜL O., KARATAŞ E., KARSLI YILMAZ N. G., YILMAZ T.  
4th International Conference on Computational and Experimental Science and Engineering, 4 - 08 October 2017
- XXXIII. **Mechanical, Thermal and Morphological Properties of Graphene Nanoplatelet and Carbon Fiber Reinforced Poly(Phenylene Sulphide) Composites In The Presence Of Glycidyl Methacrylate Terpolymer as Matrix Modifier**  
GÜL O., KARATAŞ E., KARSLI YILMAZ N. G., YILMAZ T.  
4th International Conference on Computational and Experimental Science and Engineering, 4 - 08 October 2017
- XXXIV. **Investigation Adhesive Wear and Thermomechanical Properties of Carbon Fiber Reinforced Poly(Phenylene Sulphide) Composites In The Presence Of Graphene Nanoplatelet and Glycidyl Methacrylate Terpolymer**  
KARATAŞ E., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
9th International Conference on Tribology, BALKANTRIB'17, 13 - 15 September 2017
- XXXV. **Investigation Effect of Graphene Nanoplatelet and 1,4-phenylene-bis- oxazoline Chain Extender Addition on Adhesive Wear and Thermomechanical Properties of Carbon Fiber Reinforced PA6,6 Composites**  
KARATAŞ E., GÜL O., KARSLI YILMAZ N. G., YILMAZ T.  
9th International Conference on Tribology, BALKANTRIB'17, 13 - 15 September 2017
- XXXVI. **Investigation the Effect of Chain Extender Addition on the Adhesive Wear, Thermal and Thermomechanical Properties of Glass Fiber Reinforced Polyamide 6,6 Composites**  
GÜL O., KARATAŞ E., KARSLI YILMAZ N. G., YILMAZ T.  
9th International Conference on Tribology, BALKANTRIB'17, 13 - 15 September 2017
- XXXVII. **Investigation of Thermal Mechanical Properties and Abrasive Wear Behaviour of Pumice Particle Short Carbon Fibre and POSS Reinforced PPS**  
YILMAZ S., ŞAHİN A. E., GÜL O., SINMAZÇELİK T., YILMAZ T.

The International Conference on Engineering and Natural Sciences (ICENS-2016), 24 - 28 May 2016

XXXVIII. **Geri Dönüştürülmüş PET Polikarbonat Harmanlarının Özelliklerinin Zincir Uzatıcı Kullanılarak İyileştirilmesi**

GÜL O., KARSLI YILMAZ N. G., YILMAZ S., YILMAZ T.

1. Ulusal Plastik Teknolojileri Sempozyumu "Plastikler, Polimer Kompozitler, Şekillendirme Teknolojileri, Turkey, 15 - 16 October 2015

XXXIX. **GERİ DÖNÜŞTÜRÜLMÜŞ PET VE POLİKARBONAT HARMANLARININ ÖZELLİKLERİNİN ZİNCİR UZATICI KULLANILARAK İYİLEŞTİRİLMESİ**

GÜL O., KARSLI YILMAZ N. G., YILMAZ S., YILMAZ T.

1. Ulusal Plastik Teknolojileri Sempozyumu (UPTS2015), Turkey, 15 - 16 October 2015

XL. **Investigation the Properties of Recycled PET/PC Blends In the Presence of Epoxy Based Chain Extender**

GÜL O., YILMAZ S., KARSLI YILMAZ N. G., YILMAZ T.

5th INTERNATIONAL ADVANCES IN APPLIED PHYSICS AND MATERIALS SCIENCE CONGRESS & EXHIBITION, 16 - 19 April 2015

XLI. **Essential Work of Fracture Toughness and Mechanical Properties of Recycled PA 6**

GÜL O., YILMAZ S., YILMAZ T.

22nd Annual International Conference on Composites or Nano Engineering, ICCE-22, 13 - 19 July 2014

XLII. **The Twenty second Annual International Conference on COMPOSITES NANO ENGINEERING ICCE 22**

GÜL O., YILMAZ S., YILMAZ T.

4. The International Advances In Applied Physics And Materials Science Congress&Exhibition, APMAS 2014, 24 - 27 April 2014

XLIII. **Investigation of Tribological Performance of Polyamide 6 (PA6) and Short Fiber Reinforced PA6 Composites**

GÜL O., YILMAZ T.

4th International Advances in Applied Physics and Materials Science Congress&Exhibition (APMAS 2014), 24 - 27 April 2014

XLIV. **Investigation of Tribological Performance of Polyamide 6 PA6 Short Fiber Reinforced PA6 Composites**

GÜL O., YILMAZ S., YILMAZ T.

4. The International Advances In Applied Physics And Materials Science Congress&Exhibition, APMAS 2014, 24 - 27 April 2014

XLV. **THE EFFECT OF LOW TEMPERATURE PLASMA NITRIDING ON WEAR RESISTANCE OF Ti6Al4V ALLOY**

GÜL O., SARI N. Y., SINMAZÇELİK T.

3rd International Advances In Applied Physics&Materials Science Congress, APMAS 2013, 24 - 28 April 2013

## Supported Projects

GÜL O., YILMAZ S., Project Supported by Higher Education Institutions, ABS/PA kullanılarak çok malzemeli 3B baskı ile imal edilen parçaların mekanik, termal ve tribolojik özelliklerinin incelenmesi, 2024 - Continues

## Metrics

Publication: 56

Citation (WoS): 121

Citation (Scopus): 129

H-Index (WoS): 6

H-Index (Scopus): 6