

Assoc. Prof. Ertan Köseadağ

Personal Information

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International Researcher IDs

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Education Information

2017 - 2020	Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey
2014 - 2017	Postgraduate, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü / Mekanik Anabilimdalı, Turkey
2008 - 2013	Undergraduate, Ataturk University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

2020	Polimer - metal matrisli kompozitlerden oluşturulmuş sandviç yapıların balistik davranışları Ballistic behavior of sandwich structures constructed from polymer-metal matrix composites, Erciyes University, Fen Bilimleri Enstitüsü, Doctorate
2017	Pomza takviyeli magnezyum matrisli kompozit üretimi ve karakterizasyonu Manufacturing and characterization of pumice reinforced magnesium matrix composite, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Postgraduate

Research Areas

Mechanical Engineering, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Biomechanics, Mechanical Testing, Testing and Control of Materials, Mechanical Properties, Composites, Polymeric Materials, Material Characterization, Powder Metallurgy

Academic Titles / Tasks

2021 - Continues	Assistant Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü
2020 - 2021	Research Assistant PhD, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü
2017 - 2020	Research Assistant, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği
2014 - 2017	Research Assistant, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü

Academic and Administrative Experience

2022 - Continues

Head of Department, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microstructure and Mechanical Behavior of Pumice Particle Reinforced Magnesium Matrix Composites**
Aydogmus T., Köseadağ E.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2024 (SCI-Expanded)
- II. **Low-Velocity Impact Behaviors of B4C/SiC Hybrid Ceramic Reinforced Al6061 Based Composites: An Experimental and Numerical Study**
Köseadağ E., Ekici R.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.14, no.16, pp.1-30, 2024 (SCI-Expanded)
- III. **Hybridization effect on energy absorption capacity of composite crash boxes**
Erkek B., Köseadağ E., Adin H.
Polymer Composites, vol.45, no.13, pp.12349-12361, 2024 (SCI-Expanded)
- IV. **The effect of halloysite nanotubes reinforced epoxy filler on the crushing behavior of aluminum tubes**
Köseadağ E.
Journal of Applied Polymer Science, vol.141, no.3, 2024 (SCI-Expanded)
- V. **Effect of SiC and graphene nanoparticles on the mechanical properties of carbon fiber-reinforced epoxy composites**
Köseadağ E., EKİCİ R., Yıldız N., ÇALIŞKAN U.
Polymer Composites, vol.44, no.12, pp.8578-8588, 2023 (SCI-Expanded)
- VI. **Effect of artificial aging on 3-point bending behavior of glass fiber/epoxy composites**
Köseadağ E.
Journal of Reinforced Plastics and Composites, vol.42, no.21-22, pp.1147-1153, 2023 (SCI-Expanded)
- VII. **Low-velocity and ballistic impact resistances of particle reinforced metal-matrix composites: An experimental study**
Köseadağ E., Ekici R.
JOURNAL OF COMPOSITE MATERIALS, vol.56, no.7, pp.991-1002, 2022 (SCI-Expanded)
- VIII. **Effect of stacking sequence and metal volume fraction on the ballistic impact behaviors of ARALL fiber-metal laminates: An experimental study**
Köseadağ E., Aydın M., Ekici R.
POLYMER COMPOSITES, vol.43, no.3, pp.1536-1545, 2022 (SCI-Expanded)
- IX. **The effect of artificial aging on the impact behavior of SiC nanoparticle-glass fiber-reinforced polymer matrix composites**
Köseadağ E., Çalışkan U., Ekici R.
POLYMER COMPOSITES, vol.43, no.2, pp.964-976, 2022 (SCI-Expanded)
- X. **Repeated low-velocity impact responses of SiC particle reinforced Al metal-matrix composites**
Ekici R., Köseadağ E., Demir M.
CERAMICS INTERNATIONAL, vol.48, no.4, pp.5338-5351, 2022 (SCI-Expanded)
- XI. **Low-velocity impact performance of B4C particle-reinforced Al 6061 metal matrix composites**
Kosedag E., Ekici R.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Response of trigger type to crash box energy absorption performance**

- KÖSEDAĞ E.
ENGINEERING SCIENCES, vol.13, no.1, pp.123-130, 2024 (Peer-Reviewed Journal)
- II. **Investigation of the Effect of Filling Ratio on Mechanical Properties of Pumice Filled Epoxy-Based Composites.**
KÖSEDAĞ E.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.2, pp.431-438, 2023 (Peer-Reviewed Journal)
- III. **Effect of Section Geometry and Material Type on Energy Absorption Capabilities of Crash Boxes**
KÖSEDAĞ E., İŞLER D.
Karaelmas Fen ve Mühendislik Dergisi, vol.13, no.1, pp.42-51, 2023 (Peer-Reviewed Journal)
- IV. **Impact Behavior of Aramid Reinforced Polymer Matrix Composites Produced By Hot Press-Prepreg Method**
Kösedag E., Ekici R.
Avrupa Bilim ve Teknoloji Dergisi, vol.28, pp.84-90, 2021 (Peer-Reviewed Journal)
- V. **Free Vibration Analysis of Foam-Core Sandwich Structures**
Kösedag E., Ekici R.
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGISİ, vol.24, no.1, pp.69-74, 2021 (ESCI)
- VI. **PARTİKÜL TAKVİYELİ METAL MATRİSLİ KOMPOZİTLERİNDARBE DAVRANIŞLARI ÜZERİNE BİR DERLEME**
Kösedag E., Ekici R.
ENGINEERING SCIENCES, vol.8, no.1, pp.384-393, 2019 (Peer-Reviewed Journal)
- VII. **Comparison of the low-velocity impact behaviors of SiC and Pumice particle-reinforced metal matrix composites**
Ekici R., Kösedag E.
International Journal of Mechanical and Production Engineering, vol.5, no.10, pp.101-105, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **LONG-TERM WATER ABSORPTION RESISTANCE AND EPOXY STABILIZATION OF WOOD-EPOXY COMPOSITES**
KÖSEDAĞ E.
EL RUHA 11. INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Şanlıurfa, Turkey, 7 - 09 February 2024, pp.227-233
- II. **EXPERIMENTAL INVESTIGATION ON THE COMPRESSIVE STRENGTH OF EPOXY COMPOSITES REINFORCED WITH GRAPHENE NANOTUBES**
KÖSEDAĞ E.
1. BİLSEL INTERNATIONAL KORYKOS SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS, 27-28 JANUARY,2024, Mersin, Turkey, 27 - 28 January 2024, pp.596
- III. **INVESTIGATION OF ENERGY ABSORPTION CAPABILITIES OF CYLINDRICAL CRASH BOXES MADE OF GLASS FIBER REINFORCED POLYMER MATRIX COMPOSITE WRAPPED AT DIFFERENT ANGLES**
KÖSEDAĞ E., TAY M.
EGE 10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES December 22-24, Izmir, İzmir, Turkey, 22 December 2023, pp.508
- IV. **MECHANICAL PROPERTIES OF WASTE WOOD POWDER REINFORCED POLYMER MATRIX COMPOSITES**
KÖSEDAĞ E.
2. BİLSEL INTERNATIONAL TRUVA SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS, Çanakkale, Turkey, 16 - 17 December 2023, pp.191-200
- V. **THE EFFECT OF FIBRE TYPE ON WATER ABSORPTION IN FIBRE REINFORCED POLYMER MATRIX COMPOSITE CRASH BOXES**

ERKEK B., KÖSEDAĞ E., ADİN H.

5TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Rize, Turkey, 8 - 10 November 2023, pp.36-37

- VI. **CHARACTERIZATION OF SOME PHYSICAL PROPERTIES OF FILLED EPOXY COMPOSITES**
KÖSEDAĞ E.
3rd INTERNATIONAL CONFERENCE ON INTERDISCIPLINARY STUDIES, UMMAN, 28 June 2023
- VII. **EFFECT OF FIBER ANGLE ON ENERGY ABSORPTION IN CFRP CRASH BOXES: A NUMERICAL STUDY**
KÖSEDAĞ E.
3rd INTERNATIONAL CONFERENCE ON INTERDISCIPLINARY STUDIES, UMMAN, 28 June 2023
- VIII. **Impact Behavior of Aramid Reinforced Polymer Matrix Composites Produced By Hot Press-Prepreg Method**
KÖSEDAĞ E., EKİCİ R.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.108
- IX. **Thermal Performance of Functional Graded Composite Material**
Gökaslan M. Y., Topuz M., Köseadağ E.
3rd International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 15 - 17 December 2021, pp.75
- X. **Development of pumice reinforced magnesium based composites**
Sevin D., Köseadağ E., Kelen F., Aydoğmuş T.
International Pumice and Perlite Symposium, Bitlis, Turkey, 4 - 06 November 2021, pp.12-13
- XI. **Mechanical Behavior of AL6061-Pumice Functionally Graded Composite Materials**
Köseadağ E., Topuz M., Gökaslan M. Y.
International Pumice and Perlite Symposium, Bitlis, Turkey, 4 - 06 November 2021, pp.27
- XII. **Production and characterization of pumice reinforced Al6061 matrix functional graded composite materials**
Topuz M., Köseadağ E., Gökaslan M. Y.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.656
- XIII. **EFFECT OF ARTIFICIAL AGING ON IMPACT RESISTANCE OF GLASS FIBER REINFORCED POLYMER MATRIX COMPOSITES**
Köseadağ E., Ekici R.
6th INTERNATIONAL APPLIED SCIENCES CONGRESS, Van, Turkey, 21 - 23 May 2021, pp.34
- XIV. **Numerical Analysis Of Impact Behavior Of SiC / Al6061 Metal Matrix Composites**
Köseadağ E., Ekici R.
ANATOLIAN CONGRESSES, 6th INTERNATIONAL APPLIED SCIENCE CONGRESS MAY , Van, Turkey, 21 - 23 May 2021, pp.35-36
- XV. **THE EFFECT OF PARTICLE FILLING ON IMPACT BEHAVIOR IN GLASS FIBER REINFORCED POLYMER MATRIX COMPOSITES**
Köseadağ E., Çalışkan U., Ekici R.
9th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL MEDICAL SCIENCES, Bursa, Turkey, 8 - 10 November 2019, pp.32-41
- XVI. **DÜŞÜK HIZLI DARBENİN METAL MATRİSLİ KOMPOZİTLERİN SERTLİKLERİ ÜZERİNDEKİ ETKİSİ**
Güçlü E., Köseadağ E., Ekici R., Apalak Z. G.
2. ULUSLARARASI ERCİYES BİLİMSEL ARAŞTIRMALAR KONGRESİ, Kayseri, Turkey, 27 - 29 September 2019, pp.35
- XVII. **High Temperature Mechanical Properties of Magnesium/Pumice Composites Produced by Powder Metallurgy**
Köseadağ E., Aydoğmuş T.
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.798
- XVIII. **Processing and Characterization of Pumice Reinforced Magnesium Matrix Composites**

Kösedağ E., Aydoğmuş T.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.797

XIX. Free Vibration Analysis of Foam-Core Sandwich Structures

KÖSEDAĞ E., EKİCİ R.

1st International Symposium on Light Alloys and Composite Materials (ISLAC'18) March 22-24, 2018 Karabük, Turkey, Karabük, Turkey, 22 - 24 March 2018, pp.72-73

XX. Effect of Fibre Orientation Angle on The Free Vibration of Composite Sandwich Beams with Foam-Core

Ekici R., Köseadağ E.

1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, pp.173-175

XXI. The Unusual Reinforcement Materials Used in Production of Magnesium Matrix in-situ Composites and Usability of Pumice

Kösedağ E., Aydoğmuş T.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.1037-1045

XXII. Microhardness Behavior of in-situ Magnesium / Pumice Composites with Different Reinforcement Contents

Kösedağ E., Aydoğmuş T.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.2923-2930

XXIII. The Effect of Ceramic and Metallic Reinforcement Materials on the Mechanical Properties of Magnesium Matrix Composites

Kösedağ E., Aydoğmuş T.

International Conference on Materials Science and Technology in Cappadocia, Nevşehir, Turkey, 6 - 08 April 2016, pp.842-848

Supported Projects

2024 - Continues	Eklemeli İmalat Yöntemiyle Üretilmiş Dolgu Malzemesinin Çarpışma Kutularının Ezilme Davranışına Etkisi, Project Supported by Higher Education Institutions
2023 - Continues	Kompozit Malzemeden İmal Edilmiş Çarpışma Kutularında Fiber Tipinin Enerji Soğurma Yetenekleri Üzerindeki Etkisi, Project Supported by Higher Education Institutions
2023 - Continues	Al6061B4CSiC Hibrit Metal Matrisli Kompozitlerin Düşük Hızlı Darbe Davranışlarının İncelenmesi, Project Supported by Higher Education Institutions
2023 - 2024	Farklı Açılarla Sarılmış Cam Elyaf Takviyeli Polimer Matrisli Kompozitten Üretilen Silindirik Çarpışma Kutularının Enerji Sönümleyebilme Kabiliyetlerinin İncelenmesi, Project Supported by Higher Education Institutions
2023 - 2024	GRAFEN KATKILI HİBRİT KOMPOZİT MALZEMELERDEN ÜRETİLMİŞ SİLİNDİRİK KUTULARIN EZİLME DAVRANIŞLARI, HASAR ANALİZLERİ VE YAŞLANMA ETKİSİNİN İNCELENMESİ, Project Supported by Higher Education Institutions
2018 - 2021	Polimer - Metal Matrisli Kompozitlerden Oluşturulmuş Sandviç Yapıların Balistik Davranışları, Project Supported by Higher Education Institutions
2019 - 2020	Partikül Dolgulu Fiber Takviyeli Polimer Matrisli Kompozit malzemelerin Darbe davranışları üzerine Yapay Yaşlandırmanın Etkisi, Project Supported by Higher Education Institutions
2016 - 2019	Titanyum-Nikel (TiNi) ile Takviye Edilmiş Magnezyum Bazlı Kompozitlerin Geliştirilmesi, TUBITAK Project
2016 - 2017	Pomza Takviyeli Magnezyum Matrisli Kompozit Üretimi Ve Karakterizasyonu, Project Supported by Higher Education Institutions

2014 - 2017	Beta (-)Tipi Titanyum Alařımlarının Vücut Entegrasyonunu Ve Biyouyumluluęunu İyileřtirmek Amacıyla Sol-Jel Yüzeý Modifikasyon İřlemleri İle Biyoaktif Hibrid Kaplamalar İle Kaplanması Ve Karakterizasyonu, TUBITAK Project
2015 - 2016	Al-Cu Matrisli Kompozitlerin Mekanik ve Korozif Özellikleri Üzerine Yařlandırma Isıl İřlemi ve Kuvetlendirici Faz Hacim Oranının Birleřik Etkisinin Arařtırılması, Project Supported by Higher Education Institutions

Patent

2024	Kösedadı E., Ekici R., BALİSTİK DİRENÇ SAęLAMAK ÜZERE, METAL MATRİSLİ KOMPOZİT (MMK) VE POLİMER MATRİSLİ KOMPOZİT (PMK) TABAKALARDAN ÜRETİLMİŐ YENİ BİR ÇEŐİT SANDVIÇ YAPI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: No: TR 2022 014485 B , Standard Registration, 2024
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