

ERTAN KÖSEDAĞ

ASST. PROF.

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International Researcher IDs

ScholarID: IMLwF_YAAAAJ

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Learning Knowledge

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

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, 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, 2020

Postgraduate, 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, 2017

Academic Titles / Tasks

Assistant Professor 2022 - Continues	Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü
Research Assistant PhD 2020 - 2022	Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü

Research Assistant
2017 - 2020

Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği

Research Assistant
2014 - 2017

Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü

Supported Projects

1. Köseadağ E., Ekici R., Project Supported by Higher Education Institutions, Polimer - Metal Matrisli Kompozitlerden Oluşturulmuş Sandviç Yapıların Balistik Davranışları, 2018 - 2021
2. Ekici R., Köseadağ E., Çalışkan U., Project Supported by Higher Education Institutions, Partikül Dolgulu Fiber Takviyeli Polimer Matrisli Kompozit malzemelerin Darbe davranışları üzerine Yapay Yaşlandırmanın Etkisi, 2019 - 2020
3. Aydoğmuş T., Dikici B., Koç S., Yavuz H. İ., Bayram A., TUBITAK Project, Titanyum-Nikel (TiNi) ile Takviye Edilmiş Magnezyum Bazlı Kompozitlerin Geliştirilmesi, 2016 - 2019
4. Aydoğmuş T., Köseadağ E., Project Supported by Higher Education Institutions, Pomza Takviyeli Magnezyum Matrisli Kompozit Üretimi Ve Karakterizasyonu, 2016 - 2017
5. Dikici B., Topuz M., Köseadağ E., BEDİR F., Project Supported by Higher Education Institutions, Al-Cu Matrisli Kompozitlerin Mekanik ve Korozif Özellikleri Üzerine Yaşlandırma Isıl İşlemi ve Kuvvetlendirici Faz Hacim Oranının Birleşik Etkisinin Araştırılması, 2015 - 2016

Jury Memberships

Post Graduate, Post Graduate, Erciyes Üniversitesi, September, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. **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, 2023 (SCI-Expanded)
2. **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)
3. **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)
4. **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)
5. **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)

6. **Effect of artificial aging on 3-point bending behavior of glass fiber/epoxy composites**
Kösedağ E.
Journal of Reinforced Plastics and Composites, 2022 (SCI-Expanded)
7. **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

1. **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)
2. **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)
3. **Impact Behavior of Aramid Reinforced Polymer Matrix Composites Produced By Hot Press-Prepreg Method**
Kösedağ E., Ekici R.
Avrupa Bilim ve Teknoloji Dergisi, vol.28, pp.84-90, 2021 (Peer-Reviewed Journal)
4. **Free Vibration Analysis of Foam-Core Sandwich Structures**
Kösedağ E., Ekici R.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.24, no.1, pp.69-74, 2021 (ESCI)
5. **PARTİKÜL TAKVİYELİ METAL MATRİSLİ KOMPOZİTLERİNDARBE DAVRANIŞLARI ÜZERİNE BİR DERLEME**
Kösedağ E., Ekici R.
ENGINEERING SCIENCES, vol.8, no.1, pp.384-393, 2019 (Peer-Reviewed Journal)
6. **Comparison of the low-velocity impact behaviors of SiC and Pumice particle-reinforced metal matrix composites**
Ekici R., Kösedağ 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

1. **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
2. **CHARACTERIZATION OF SOME PHYSICAL PROPERTIES OF FILLED EPOXY COMPOSITES**
KÖSEDAĞ E.
3rd INTERNATIONAL CONFERENCE ON INTERDISCIPLINARY STUDIES, UMMAN, 28 June 2023
3. **Thermal Performance of Functional Graded Composite Material**
Gökaslan M. Y., Topuz M., Kösedağ E.
3rd International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 15 - 17 December 2021, pp.75
4. **Development of pumice reinforced magnesium based composites**
Sevin D., Kösedağ E., Kelen F., Aydoğmuş T.

- International Pumice and Perlite Symposium, Bitlis, Turkey, 4 - 06 November 2021, pp.12-13
5. **Mechanical Behavior of AL6061-Pumice Functionally Graded Composite Materials**
Kösedağ E., Topuz M., Gökaslan M. Y.
International Pumice and Perlite Symposium, Bitlis, Turkey, 4 - 06 November 2021, pp.27
 6. **Production and characterization of pumice reinforced Al6061 matrix functional graded composite materials**
Topuz M., Kösedağ E., Gökaslan M. Y.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.656
 7. **EFFECT OF ARTIFICIAL AGING ON IMPACT RESISTANCE OF GLASS FIBER REINFORCED POLYMER MATRIX COMPOSITES**
Kösedağ E., Ekici R.
6th INTERNATIONAL APPLIED SCIENCES CONGRESS, Van, Turkey, 21 - 23 May 2021, pp.34
 8. **Numerical Analysis Of Impact Behavior Of SiC / Al6061 Metal Matrix Composites**
Kösedağ E., Ekici R.
ANATOLIAN CONGRESSES, 6th INTERNATIONAL APPLIED SCIENCE CONGRESS MAY , Van, Turkey, 21 - 23 May 2021, pp.35-36
 9. **THE EFFECT OF PARTICLE FILLING ON IMPACT BEHAVIOR IN GLASS FIBER REINFORCED POLYMER MATRIX COMPOSITES**
Kösedağ E., Çalışkan U., Ekici R.
9th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL MEDICAL SCIENCES, Bursa, Turkey, 8 - 10 November 2019, pp.32-41
 10. **DÜŞÜK HIZLI DARBENİN METAL MATRİSLİ KOMPOZİTLERİN SERTLİKLERİ ÜZERİNDEKİ ETKİSİ**
Güçlü E., Kösedağ E., Ekici R., Apalak Z. G.
2. ULUSLARARASI ERCİYES BİLİMSEL ARAŞTIRMALAR KONGRESİ, Kayseri, Turkey, 27 - 29 September 2019, pp.35
 11. **High Temperature Mechanical Properties of Magnesium/Pumice Composites Produced by Powder Metallurgy**
Kösedağ E., Aydoğmuş T.
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.798
 12. **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
 13. **Effect of Fibre Orientation Angle on The Free Vibration of Composite Sandwich Beams with Foam-Core**
Ekici R., Kösedağ E.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, pp.173-175
 14. **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
 15. **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
 16. **The Effect of Ceramic and Metallic Reinforcement Materials on the Mechanical Properties of Magnesium Matrix Composites**

Kösedag E., Aydođmuş T.

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

Academic and Administrative Experience

2022 - Continues	Head of Department	Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü
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Courses

Bitirme Tezi, Undergraduate, 2021 - 2022
Mukavemet II, Undergraduate, 2021 - 2022
Kompozit Malzeme Mekaniđi, Postgraduate, 2021 - 2022
Makine Laboratuvarı II, Undergraduate, 2021 - 2022
Mukavemet I, Undergraduate, 2021 - 2022
Kompozit Malzemelere Giriş, Undergraduate, 2021 - 2022
Makine Mühendisliği Tasarım, Undergraduate, 2021 - 2022
Makine Laboratuvarı I, Undergraduate, 2021 - 2022

Patent

Ekici R., Kösedag E., BALİSTİK DİRENÇ SAĞLAMAK ÜZERE, METAL MATRİSLİ KOMPOZİT (MMK) VE POLİMER MATRİSLİ KOMPOZİT (PMK) TABAKALARDAN ÜRETİLMİŞ YENİ BİR ÇEŞİT SANDVIÇ YAPI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2022/014485 , Standard Registration, 2022

Scientific Refereeing

Karaelmas Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, October 2022
JOURNAL OF SANDWICH STRUCTURES AND MATERIALS, SCI Journal, September 2022
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART J: JOURNAL OF ENGINEERING TRIBOLOGY, SCI Journal, August 2022
Turkish Journal of Science & Technology, National Scientific Refreed Journal, June 2022
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2022
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, March 2022
JOURNAL OF SANDWICH STRUCTURES AND MATERIALS, SCI Journal, February 2022
JOURNAL OF COMPOSITE MATERIALS, SCI Journal, September 2021

Metrics

Publication: 29
Citation (WoS): 25
Citation (Scopus): 50
H-Index (WoS): 3
H-Index (Scopus): 4

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Mechanical Testing, Engineering and Technology