

## Res. Asst. PhD İSMAİL ÖZEN

### Personal Information

**Office Phone:** [+90 462 377 2965](tel:+904623772965)

**Email:** ismailozen@ktu.edu.tr

**Web:** <https://avesis.ktu.edu.tr/ismailozen>

**Address:** ismailozen@ktu.edu.tr

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2022

Postgraduate, Firat University, Institute Of Science, Otomotiv Mühendisliği, Turkey 2012 - 2015

Undergraduate, Firat University, Faculty Of Engineering, Makina Mühendisliği, Turkey 2013 - 2014

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2010 - 2012

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, Turkey 2004 - 2010

Undergraduate, Universidade de Minho, Mühendislik Fakültesi, Makina Mühendisliği, Portugal 2008 - 2009

### Foreign Languages

English, C1 Advanced

Portuguese, B1 Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Uçak Bakım Teknisyeni Yetiştirme Programı, THY TEKNİK A.Ş., 2011

Education Management and Planning, Portekizce Dil Kursu, Universidade de Minho, 2008

### Dissertations

Doctorate, Kompozit Yapılarda Makro ve Mikro Hasar Davranışının Deneysel ve Sayısal Olarak İncelenmesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2022

Postgraduate, BİR BİNEK ARACIN AERODİNAMİK ETKİNLİĞİNİN MODELLENMESİ , Firat University, Fen Bilimleri Enstitüsü , Otomotiv Mühendisliği, 2015

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Finite Element Methods, Mechanical Testing, Computational fluid dynamics, Aeronautical and Space Engineering, Composites, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - Continues

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2022

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

- I. **Improvement of solid particle erosion resistance of helicopter rotor blade with hybrid composite shield**  
Özen İ., Gedikli H., Öztürk B.  
ENGINEERING FAILURE ANALYSIS, vol.121, 2021 (Journal Indexed in SCI)
- II. **Low-energy impact response of composite sandwich panels with thermoplastic honeycomb and reentrant cores**  
Özen İ., Çava K., Gedikli H., Alver Ü., Aslan M.  
THIN-WALLED STRUCTURES, vol.156, 2020 (Journal Indexed in SCI)
- III. **Solid Particle Erosion on Shield Surface of a Helicopter Rotor Blade Using Computational Fluid Dynamics**  
Özen İ., Gedikli H.  
JOURNAL OF AEROSPACE ENGINEERING, vol.32, no.1, 2019 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Investigation of solid particle erosion behaviour on erosion shield of a helicopter rotor blade**  
Gedikli H., Özen İ.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.1, pp.68-74, 2020 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Crashworthiness Analysis of Empty and Cellular Filled Composite Crash Boxes**  
Özen İ., Gedikli H., Aslan M.  
International Symposium on Automotive Science and Technology, ISASTECH 2021, Ankara, Turkey, 8 - 10 September 2021, vol.2, pp.668-679
- II. **Investigation of Impact Behavior of Sandwich Materials with 3D Printed Auxetic and Cellular Core Geometries**  
Özen İ., Çava K., Gedikli H., Alver Ü., Aslan M.  
INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE 2019, İstanbul, Turkey, 31 October - 01 November 2019
- III. **Investigation of the Effect on Aerodynamic Performance of Stepped Diffuser in a Land Vehicle**  
Özen İ., Varol Y.  
International Conference on Advances in Mechanical and Mechatronics Engineering (ICAMMEN 2018), Ankara, Turkey, 8 - 09 November 2018, pp.361-368
- IV. **Helikopter Kanadında Oluşan Aşınmanın CFD İle 3D Olarak Modellenmesi**  
Özen İ., Gedikli H.  
VI. Ulusal Havacılık ve Uzay Kongresi 2016, KOCAELİ, TÜRKİYE, 28-30 Eylül 2016, Kocaeli, Turkey, 28 - 30 September 2016, pp.1073-1081
- V. **MODELING OF SOLID PARTICLE EROSION IN A METAL EROSION SHIELD USING CFD**  
Özen İ., Gedikli H.  
International Symposium on Sustainable Aviation, İstanbul, Turkey, 29 May - 01 June 2016, pp.1-9

## Supported Projects

GEDİKLİ H., MERİÇ D., BUDUR A. İ. , CORA Ö. N. , ÖZEN İ., ACAR D., ÇETİN M. E. , GÜMRÜK R., Project Supported by Higher Education Institutions, ÖRGÜLÜ ELYAF TAKVİYELİ KOMPOZİT YAPILARIN MEKANİK VE BALİSTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2018

Gedikli H., Sofuoğlu H., Cora Ö. N. , Gümrük R., Meriç D., Özen İ., Acar D., Budur A. İ. , Kuleyin H., Project Supported by Other Official Institutions, DÜŞÜK ENERJİLİ ÇARPIŞMA ALTINDA AŞINMA KALKANINDA MEYDANA GELEN HASARIN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ (TUSAŞ-TAI/DKTM), 2015 - 2017

## Edit Congress and Symposium Activities

International Conference on Advances in Mechanical and Mechatronics Engineering, Attendee, Ankara, Turkey, 2018

VI. Ulusal Havacılık ve Uzay Kongresi, Attendee, Kocaeli, Turkey, 2016

TAI - I. Genç Araştırmacılar Çalıştayı, Attendee, Ankara, Turkey, 2016

International Symposium on Sustainable Aviation, Attendee, İstanbul, Turkey, 2016

## Citations

Total Citations (WOS):23

h-index (WOS):2

## Non Academic Experience

Other Public Institution, Thy Teknik A.Ş.