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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-4020-2021

ScopusID: 57204502766

Yoksis Researcher ID: 105100

Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2015 - 2022

Postgraduate, Firat University, Graduate School of Natural and Applied Sciences, Automotive Engineering, Turkey 2012 - 2015

Undergraduate, Firat University, Faculty of Engineering, Mechanical Engineering, 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, Faculty of Engineering, Mechanical Engineering, Portugal 2008 - 2009

Foreign Languages

English, C2 Mastery

Portuguese, B1 Intermediate

Certificates, Courses and Trainings

Vocational Training, Uçak Bakım Teknisyeni Yetiştirme Programı, Turkish Technic, 2011

Vocational Course, Portekizce Dil Kursu, University of Minho, 2008

Dissertations

Doctorate, Experimental and Numerical Investigation of Macro and Micro Damage Behavior in Composite Structures, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2022

Postgraduate, Modelling of A Passenger Vehicle's Aerodynamics Efficiency, Firat University, Graduate School of Natural and Applied Sciences, Automotive Engineering, 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

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues
Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - 2023
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2022
Research Assistant, Firat University, Faculty Of Technology, Otomotiv Mühendisliği, 2012 - 2015

Academic and Administrative Experience

Internship Committee Member, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues
Ölçme Değerlendirme Kurulu Üyesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues

Courses

Static, Undergraduate, 2023 - 2024
Introduction to Finite Element Methods, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Crushing response of triply periodic minimal surface structures fabricated by investment casting and powder bed fusion method**
Özen İ., Çava K., İpek H., Sezer R., Aslan M.
MATERIALS TODAY COMMUNICATIONS, vol.38, 2024 (SCI-Expanded)
- II. **Experimental and numerical investigation on energy absorbing characteristics of empty and cellular filled composite crash boxes**
ÖZEN İ., GEDİKLİ H., ASLAN M.
ENGINEERING STRUCTURES, vol.289, 2023 (SCI-Expanded)
- III. **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 (SCI-Expanded)
- IV. **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 (SCI-Expanded)
- V. **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 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation on Solid Particle Erosion Performance of Aluminum Alloy Materials for Leading-Edge**

Slat

Budur A. İ., Özen İ., Öztürk B., Gedikli H.

Tribology in Industry, vol.46, no.1, pp.126-140, 2024 (Scopus)

II. Investigation of Energy Absorbing and Damage Behavior of Gyroid and Diamond Cell Based Lattice Structures Manufactured through Powder Bed Fusion Technology

ÖZEN İ., ASLAN M.

International Journal of Automotive Science and Technology, vol.7, no.4, pp.372-383, 2023 (Scopus)

III. 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 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Energy Absorbing Behaviour of Triply Periodic Minimal Surface Structures Manufactured by Powder Bed Fusion Technology with AlSi10Mg Material

Özen İ., Aslan M.

International Symposium on Automotive Science and Technology, ISASTECH 2023, Ankara, Turkey, 7 - 08 September 2023, vol.3, pp.431-443

II. 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

III. 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

IV. 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

V. 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

VI. 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

Gedikli H., Özen İ., Project Supported by Higher Education Institutions, Experimental and Numerical Investigation of Macro and Micro Damage Behavior in Composite Structures, 2019 - 2022

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

Scientific Refereeing

MECHANICS OF TIME-DEPENDENT MATERIALS, SCI Journal, January 2024

International Journal of Automotive Science and Technology, Other Indexed Journal, December 2023

Metrics

Publication: 14

Citation (WoS): 73

Citation (Scopus): 85

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

3. International Symposium on Automotive Science and Technology, ISASTECH 2023, Attendee, Ankara, Turkey, 2023

2. International Symposium on Automotive Science and Technology, ISASTECH 2021, Attendee, Ankara, Turkey, 2021

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

Invited Talks

DÜŞÜK ENERJİLİ ÇARPIŞMA ALTINDA AŞINMA KALKANINDA MEYDANA GELEN HASARIN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ, Workshop, TUSAŞ-TAI/DKTM, Turkey, September 2016

Scholarships

Erasmus, European Commission, 2008 - 2009

Başarı Bursu, University, 2007 - 2008

Awards

Özen İ., Bölüm Birincisi, Gazi Üniversitesi, June 2009

Representation and Promotion Activities

Institutional Representation, TÜBİTAK, Turkey, Gaziantep, 2020 - 2020

Non Academic Experience

Company, THY Teknik A.Ş., Uçak Bakım Onarım