

## Res. Asst. HAMDİ KULEYİN

### Personal Information

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**Address:** Recep Tayyip ERDOĞAN Üniversitesi Zihni Derin Yerleşkesi Mühendislik Fakültesi

### International Researcher IDs

ScholarID: tKQKsN4AAAAJ

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Yoksis Researcher ID: 255618

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Anabilim Dalı, Turkey 2018 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Anabilim Dalı, Turkey 2015 - 2018

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2011 - 2015

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Vocational Training, 3D TARAYICI VE YAZICI YETKİNLİK GELİŞTİRME PROGRAMI , TMMOB Makina Mühendisleri Odası, 2021

### Dissertations

Postgraduate, BASINÇLANDIRILMIŞ İNCE CİDARLI TÜPLERİN ÇARPMA PERFORMANSLARININ BELİRLENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı / Mekanik , 2018

### Research Areas

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

### Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2016 -

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

- I. **The effect of ABS fraction on the fatigue behavior of PMMA/ABS polymer blends**  
KULEYİN H., GÜMRÜK R., Caliskan S.  
MATERIALS TODAY COMMUNICATIONS, vol.33, 2022 (SCI-Expanded)
- II. **The numerical evaluation of crash performance of the pressurized thin-walled tubes**  
KULEYİN H., GÜMRÜK R.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.44, no.3, 2022 (SCI-Expanded)
- III. **Effect of Boronizing on Operating Stability of Steel AISI 304L under Erosion Impact of Hard Particles**  
BİCAN O., BAYÇA S. U., KULEYİN H., GÜMRÜK R.  
METAL SCIENCE AND HEAT TREATMENT, vol.63, no.3-4, pp.156-162, 2021 (SCI-Expanded)
- IV. **The mechanical compression performance of ultra-fine grained stainless steel pyramidal lattice core**  
Kuleyin H., GÜMRÜK R., YANAR H., DEMIRTAS M., PÜRÇEK G.  
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.28, no.10, pp.1073-1078, 2021 (SCI-Expanded)
- V. **Development of Optical, Microstructural and Mechanical Properties of Porcelain Stonewares**  
Aydin T., Bican O., GÜMRÜK R., KULEYİN H.  
SCIENCE OF SINTERING, vol.53, no.1, pp.79-90, 2021 (SCI-Expanded)
- VI. **Pressure wave propagation in pressurized thin-walled circular tubes under axial impact**  
Kuleyin H., GÜMRÜK R.  
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING, vol.130, pp.138-152, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigating the effects of hot isostatic pressure heat treatment on mechanical properties of PLA based BCC lattices**  
KULEYİN H., UŞUN A., GÜMRÜK R.  
Selcuk University Journal of Engineering Sciences, vol.21, no.1, 2022 (Peer-Reviewed Journal)
- II. **INVESTIGATION OF DYNAMICS MECHANICAL BEHAVIOUR OF STAINLESS STEEL STRUCTURES PRODUCED BY THE SELECTIVE LASER MELTING TECHNIQUE**  
GÜMRÜK R., KULEYİN H., MİNES B.  
International Journal of Engineering, Technology and Natural Sciences, vol.1, no.1, pp.23-30, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigating the Reflective Performance of Micro Cellular Foam Based High-Performance Diffusive Reflectors**  
UŞUN A., GÜMRÜK R., KULEYİN H.  
3. INTERNATIONAL DİCLE SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Diyarbakır, Turkey, 26 November 2022
- II. **Investigating of the Effects of Hot Isostatic Pressure Heat Treatment on Mechanical Properties of PLA Based BCC Lattices**  
KULEYİN H., UŞUN A., GÜMRÜK R.  
INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGIES, Konya, Turkey, 18 - 20 November 2021
- III. **ENERGY ABSORPTION PERFORMANCE OF PRESSURIZED THIN-WALLED TUBES**

KULEYİN H., GÜMRÜK R.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019, pp.20-30

**IV. BASINÇLANDIRILMIŞ İNCE CİDARLI TÜPLERİN ADAPTİF ENERJİ SÖNÜMLEYİCİ OLARAK KULLANIMI**  
KULEYİN H., GÜMRÜK R.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019, pp.30-40

**V. VESTIGATION OF DYNAMICS MECHANICAL BEHAVIOUR OF STAINLESS STEEL STRUCTURES PRODUCED BY THE SELECTIVE LASER MELTING TECHNIQUE**

GÜMRÜK R., KULEYİN H., Bob M.

MECHATECH '16 / International Mechanical Engineering and Technologies Conference, İstanbul, Turkey, 17 - 18 May 2016, pp.23-30

**VI. INVESTIGATION OF DYNAMICS MECHANICAL BEHAVIOUR OF STAINLESS STEEL STRUCTURES PRODUCED BY THE SELECTIVE LASER MELTING TECHNIQUE**

GÜMRÜK R., KULEYİN H., MİNES B.

MECHATECH INTERNATIONAL MECHANICAL ENGINEERING AND TECHNOLOGIES CONFERENCE, İstanbul, Turkey, 17 - 18 May 2016, pp.150-157

## Supported Projects

Kuleyin H., Gümrük R., Çalışkan S., TUBITAK Project, PMMA ve ABS Mühendislik Polimerlerinin Saf/İkili Karışım Olarak Mekanik Özellikleri ve Yorulma Davranışlarının İncelenmesi, 2023 - 2024

Gümrük R., Çuvalcı H., Varol T., Aslan M., Cora Ö. N., Kuleyin H., Project Supported by Higher Education Institutions, Sürekli Elyaf Takviyeli Termoplastik Kompozitlerin Üretim Parametrelerinin Malzemelerin Yorulma Davranışına Etkisinin İncelenmesi, 2021 - 2024

Gümrük R., Uşun A., Kuleyin H., Project Supported by Higher Education Institutions, Üç Boyutlu Yazıcı Kullanılarak Yüksek Mukavemetli Sürekli Elyaf Takviyeli Termoplastik Kompozitlerin Üretilmesi, 2020 - 2022

Küçük H., Kuleyin H., Development Agency, Mekanik Tasarım Eğitimi , 2019 - 2019

Gümrük R., Aygün C., Kuleyin H., Uşun A., TUBITAK Project, Yüksek Performanslı Difüzif Reflektör İmalatı, 2018 - 2019

Gümrük R., Kuleyin H., Project Supported by Higher Education Institutions, Basınçlandırılmış Enerji Sönümleme Elemanlarının Darbe Davranışının İncelenmesi, 2018 - 2019

Gümrük R., Kuleyin H., Project Supported by Higher Education Institutions, Darbe Sönümleme Tüpleri İçin İç Basınç Torbası, 2017 - 2018

KULEYİN H., Project Supported by Other Official Institutions, TAI-TUSAŞ Düşük Enerjili Çarpışma Altında Helikopter Palinin Aşınma Davranışının Deneysel Ve Sayısal İncelenmesi, 2015 - 2017

## Patent

Kuleyin H., Gümrük R., Darbe sönümleme tüpleri için bir iç basınç torbası., Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2017 19881 , Standard Registration, 2021

## Memberships / Tasks in Scientific Organizations

Tmmob Makine Mühendisleri Odası, Board Member, 2022 - Continues, Turkey

## Scientific Refereeing

Proceedings Of The Institution Of Mechanical Engineers Part D-Journal Of Automobile Engineering, SCI Journal, March

2021

## **Tasks In Event Organizations**

Kuleyin H., 12. ULUSAL UÇAK, HAVACILIK VE UZAY MÜHENDİSLİĞİ KURULTAYI, Scientific Congress, Eskişehir, Turkey, Mayıs 2023

## **Metrics**

Publication: 14

Citation (WoS): 14

Citation (Scopus): 19

H-Index (WoS): 3

H-Index (Scopus): 3

## **Congress and Symposium Activities**

5th International Conference on Engineering Technologies , Attendee, Konya, Turkey, 2021

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Attendee, Nevşehir, Turkey, 2019

TAİ-1. Genç Araştırmacılar Çalıştayı, Attendee, Ankara, Turkey, 2016

MECHATECH'16, Attendee, İstanbul, Turkey, 2016

## **Awards**

KULEYİN H., Karadeniz Teknik Üniversitesi Makine Mühendisliği Bölüm İkincisi, Karadeniz Teknik Üniversitesi, June 2015

## **Non Academic Experience**

Business Establishment Private, Yasuto Mühendislik