

## Asst. Prof. HAKKI ÖZER

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-6897-2021

Yoksis Researcher ID: 201231

### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Otomotiv Mühendisliği (Dr), Turkey 2015 - 2022

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Otomotiv Mühendisliği (YI) (Tezli), Turkey 2013 - 2015

Undergraduate, Suleyman Demirel University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2008 - 2012

### Dissertations

Doctorate, Kendi kendine iyileşebilen sandviç yapıların darbe yükleri altında hasar davranışı ve iyileşme performansı, 2021

Postgraduate, Sürekli cam elyaf takvyeli termoplastik kompozit malzemelerin geliştirilmesi ve mekanik özelliklerinin deneysel olarak belirlenmesi, 2015

### Research Areas

Mechanical Engineering

### Academic Titles / Tasks

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, OTOMOTİV MÜHENDİSLİĞİ, 2013 - Continues

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

- Sound insulation performance of honeycomb core aluminum sandwich panels with flexible epoxy-based foam infill**  
Boztoprak Y., Ünal M., Özada Ç., Kuzu E., Özer H., Ergin F., Yazıcı M.  
Composite Structures, vol.319, 2023 (SCI-Expanded)
- A sandwich panel that autonomously repairs sudden large holes and defects for tankers and pipelines carrying hazardous matter**  
Özer H., Kuzu E., Özada Ç., Ünal M., Kasım H., Yazıcı M.  
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, vol.236, no.10, pp.2002-2016, 2022 (SCI-Expanded)

- III. **The self-healing sandwich panel: Production of epoxy based self-healing capsules, self-healable sandwich panel development, and experimental measurement of self-healing performance**  
Özer H., Kuzu E., Ozada C., Unal M., Yazıcı M.  
CONSTRUCTION AND BUILDING MATERIALS, vol.310, 2021 (SCI-Expanded)
- IV. **Investigation of the Crash Boxes Light Weighting with Syntactic Foams by the Finite Element Analysis**  
Ozer H., Can Y., Yazici M.  
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.734-737, 2017 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Open-Hole Tensile Experiments of Thermoplastic Composite Laminates and Finite Element Analysis**  
Özer H., Kurtuluş O., Güçlü H., Taş M., Yazıcı M.  
International Journal of Computational and Experimental Science and Engineering (IJCESEN), vol.3, no.1, pp.44-46, 2017 (Peer-Reviewed Journal)
- II. **Mechanical Properties of 2D Cross Ply EGlassFiber Reinforced ThermoplasticLaminated Composite Materials**  
YAZICI M., ÖZER H., Karen İ., Can Y., Torçuk C.  
International Journal of Automation Mechatronics & Robotics (IJAMR), vol.3, no.1, pp.56-60, 2016 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Functionally Graded Syntactic Foam Core Sandwich Materials Under Blast and Impact Loading**  
Türkoğlu İ. K., Özer H., Güçlü H., Can Y., Yazıcı M.  
8th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2021), Antalya, Turkey, 27 - 31 October 2021, pp.2
- II. **Experimental Investigation Of The Behavior Of Sandwich Panels under Shock Loading**  
Yazıcı M., Can Y., Özer H., Güçlü H.  
7 th International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 21 - 25 October 2020, vol.1, pp.84
- III. **Sound Insulation Performance of Chemically Foamed Low-DensityPolyethylene Thermoplastics Materials**  
El Khodor M., Alışkın M., Özer H., Ergin F., Yazıcı M.  
Thermophysical and Mechanical Properties of Advanced Materials (THERMAM), İzmir, Turkey, 22 - 24 September 2019
- IV. **Development of Self-Healable Syntactic Foams**  
Ünal M., Özada Ç., Özer H., Aykut Y., Yazıcı M.  
6th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2019), Antalya, Turkey, 23 - 27 October 2019, vol.1, pp.273
- V. **Sound Insulation Performance of Honeycomb Core Aluminum Sandwich Panels with Flexible Epoxy Based Foam Infill**  
Boztoprak Y., Özada Ç., Ünal M., Özer H., Ergin F., Yazıcı M.  
Thermophysical and Mechanical Properties of Advanced Materials (THERMAM), İzmir, Turkey, 22 - 24 September 2019
- VI. **Production of syntactic foam material and vehicle collisions with elements of syntactic foam material modeling with finite element analysis**  
Özer H., Can Y., Yazıcı M.  
International Conference on Computational and Experimental Science and Engineering (İccesen 2016), Antalya,

Turkey, 19 - 24 October 2016, pp.472

VII. **Investigation of Mechanical Properties of Reinforcement Thermoplastic Composite Materials and Finite Element Analysis**

Özer H., Kurtuluş O., Taş M., Yazıcı M.

International Conference on Computational and Experimental Science and Engineering (İccesen 2016), Antalya, Turkey, 19 - 24 October 2016, pp.357

VIII. **RUBBER BASED SYNTACTIC FOAM CORE SANDWICH PANELS**

Kasım H., Özer H., Yazıcı M.

International Congress on Natural and Engineering Sciences (ICNES 2016), Skopje, Macedonia, 1 - 05 September 2016, pp.18

IX. **TERMOPLASTİK KOMPOZİT MALZEME VE SENTAKTİK KÖPÜK ESASLI SANDVIÇ YAPILARDAN ÇOK HAFİF TAMPON KİRİŞİ VE DARBE SÖNÜMLEYİCİ GELİŞTİRİLMESİ**

Özer H., Can Y., Güçlü H., Karen İ., Yazıcı M.

OTEKON 2016. 8.Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 23 - 24 May 2016, pp.565-570

X. **Mechanical Properties of 2D Cross Ply EGlass Fiber Reinforced Thermoplastic Laminated Composite Materials**

Yazıcı M., Özer H., Karen İ., Can Y., Somyak C.

4th International Conference on Advances in Civil, Structural and Mechanical Engineering- CSM 2016, Birmingham, United Kingdom, 17 - 18 March 2016, pp.90-94

XI. **Experimental Determination of Mechanical Properties of 2D Cross Ply Glass Reinforced Thermoplastic Laminated Composite Materials and Finite Element Model Validation**

Yazıcı M., Özer H., Türkoğlu İ. K., Güçlü H., Karen İ.

2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015), Antalya, Turkey, 14 - 19 October 2015

XII. **Investigation of the Polymer Composite Side Door Anti-intrusion Bar for a Light Commercial Vehicle**

KAREN İ., TÜRKOĞLU İ. K., ÖZER H., GÜÇLÜ H., somyak c., torçuk c.

INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES (ICNES 2015), Bosnia And Herzegovina, 9 - 13 September 2015

XIII. **Frontal crash simulation of the Composite Car Bumper to Rigid Barriers and Poles**

ÖZER H., can y., KAREN İ., GÜÇLÜ H.

International Congress On Natural And Engineering Sciences (ICNES 2015), Bosnia And Herzegovina, 9 - 13 September 2015

XIV. **Experimental Determination of Mechanical Properties of 2D Cross Ply Glass Fiber Reinforced Thermoplastic Laminated Composite Materials and Finite Element Model Validation**

YAZICI M., ÖZER H., KANDİRMİŞ İ. K., GÜÇLÜ H., KAREN İ.

2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015), Antalya, Turkey, 14 - 19 October 2015

XV. **Frontal crash simulation of the Composite Car Bumper to rigid barriers and poles**

Yazıcı M., Özer H., Can Y., Karen İ., Türkoğlu İ. K., Güçlü H.

(ICNES 2015) INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES , Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, pp.20

XVI. **Investigation of the Polymer Composite Side Door Anti-intrusion Bar for a Light Commercial Vehicle**

Yazıcı M., Karen İ., Türkoğlu İ. K., Özer H., Güçlü H., Somyak C., Torçuk C.

(ICNES 2015) INTERNATIONAL CONGRESS ON NATURAL AND ENGINEERING SCIENCES, Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, pp.25

XVII. **30MnB5 Çelik Malzemenin Kırılma Enerjisi Ve Dayanım Değerlerine Işıl İşlem Sıcaklıklarının Etkisi**

GÜLER H., ERTAN R., ÖZER H.

Otomotiv Teknolojileri Kongresi (2014), Bursa, Turkey, 26 - 27 May 2014

## **Supported Projects**

Yazıcı M., Akay S. K., Deliktaş B., Durmuş A., Aykut Y., TUBITAK Project, Development of a novel macro level selfhealing hybrid sandwich panels and determination of the panels' healing performance under static, impact and shock loading conditions., 2019 - 2022

## **Metrics**

Publication: 28

Citation (WoS): 21

Citation (Scopus): 24

H-Index (WoS): 3

H-Index (Scopus): 3