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International Researcher IDs

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Publons / Web Of Science ResearcherID: JHR-9937-2023

ScopusID: 56692790400

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Education

I. Doctorate, Manisa Celal Bayar University, Turkey 2021 - 2021
II. Postgraduate, Turkey 2012 - 2015
III. Undergraduate, Turkey 2008 - 2012

Foreign Languages

I. English

Dissertations

I. Doctorate, Fonksiyonel derecelendirilmiş kirişlerin mekanik analizi, Manisa Celal Bayar University, 2021
II. Postgraduate, Doğal fiber takviyeli kompozitlerin üretimi, mekanik ve termal özelliklerinin tespiti, 2015

Research Areas

Avesis Research Areas: Mechanical
WoS Research Areas: Materials Science Characterization & Testing, Engineering Mechanical, Mechanics, Materials Science Composites
Scopus Research Areas: Mechanics of Materials, Automotive Engineering

Academic Positions

I. Assistant Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Makine Mühendisliği, 2022 - Present
II. Research Assistant, Manisa Celal Bayar University, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - 2022

III. Research Assistant, Selcuk University, 2016 - 2017

Supervised Theses

I. ÖZMEN U., Eklemeli İmalat ile Üretilmiş Sandviç Kompozit Kirişlerin Mekanik Analizi, Postgraduate, M.ESAD(Student), 2024

Articles

I. **Mechanical Behavior of PLA Based Composite Filaments Fabricated by FDM: Role of Build Orientation and Reinforcement Type**
Cokyasar M. E., ÖZMEN U.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.143, no.38, 2026 (SCI-Expanded, Scopus)

II. **Bending and Impact Performance of Hybrid Sandwich Composites with Different Cellular Core Geometries**
ÖZMEN U., Yavuz M. E.
Fibers and Polymers, vol.27, no.8, pp.4065-4082, 2026 (SCI-Expanded, Scopus)

III. **Effect of infill pattern on bending and impact behaviour of 3D printed sandwich beams**
ÖZMEN U.
Journal of Innovative Engineering and Natural Science, vol.6, no.2, pp.295-307, 2026 (Scopus, TRDizin)

IV. **Effect of cellular core topology on the mechanical performance of carbon/epoxy sandwich composites with 3D-printed PVA cores**
ÖZMEN U.
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, 2026 (SCI-Expanded, Scopus)

V. **Mechanics of functionally graded beams: analytical, computational, and experimental analyses**
ÖZMEN U., ÖZHAN B. B.
International Journal of Mechanics and Materials in Design, vol.21, no.3, pp.577-590, 2025 (SCI-Expanded, Scopus)

VI. **Computational Modeling of Functionally Graded Beams: A Novel Approach**
ÖZMEN U., ÖZHAN B. B.
Journal of Vibration Engineering and Technologies, vol.10, no.7, pp.2693-2701, 2022 (SCI-Expanded, Scopus)

VII. **A micromechanical approach to elastic modulus of long-term aged chicken feather fibre/poly(lactic acid) biocomposites**
Akderya T., ÖZMEN U., Baba B. O.
International Journal of Materials Research, vol.113, no.9, pp.759-775, 2022 (SCI-Expanded, Scopus)

VIII. **Revealing the Long-term Ageing Effect on the Mechanical Properties of Chicken Feather Fibre/Poly(lactic acid) Biocomposites**
Akderya T., ÖZMEN U., Baba B. O.
Fibers and Polymers, vol.22, no.9, pp.2602-2611, 2021 (SCI-Expanded, Scopus)

IX. **Investigation of long-term ageing effect on the thermal properties of chicken feather fibre/poly(lactic acid) biocomposites**
Akderya T., ÖZMEN U., Baba B. O.
Journal of Polymer Research, vol.27, no.6, 2020 (SCI-Expanded, Scopus)

X. **The effect of foam properties on vibration response of curved sandwich composite panels**
Yurddaskal M., ÖZMEN U., Kir M., Okutan Baba B.
Composite Structures, vol.183, no.1, pp.278-285, 2018 (SCI-Expanded, Scopus)

XI. **Thermal characterization of chicken feather/PLA biocomposites**
ÖZMEN U., Baba B. O.
Journal of Thermal Analysis and Calorimetry, vol.129, no.1, pp.347-355, 2017 (SCI-Expanded, Scopus)

XII. **Preparation and mechanical characterization of chicken feather/PLA composites**
Baba B. O., ÖZMEN U.
Polymer Composites, vol.38, no.5, pp.837-845, 2017 (SCI-Expanded, Scopus)

XIII. **Prediction of the elastic moduli of chicken-feather-reinforced pla and a comparison with experimental results**
ÖZMEN U., Baba B. O.
Materiali in Tehnologije, vol.50, no.1, pp.141-146, 2016 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Değişken Kesitli Fonksiyonel Derecelendirilmiş Kirişlerin Serbest Titreşim Analizi**
ÖZMEN U., ÖZHAN B. B.
6th International Students Science Congress, İzmir, Turkey, 20 May 2022, (Summary Text)

II. **Free Vibration Analysis of Functionally Graded Beams with Non-uniform Cross Section**
ÖZMEN U., ÖZHAN B. B.
6th International Students Science Congress, İzmir, Turkey, 20 - 21 May 2022, (Summary Text)

III. **EFFECTS OF DIFFERENT ENVIRONMENTS ON THE MECHANICAL PROPERTIES OF POLY(LACTIC ACID) SPECIMENS PRODUCED BY FUSED DEPOSITION MODELING METHOD**
AKDERYA T., ÖZMEN U.
4. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21), Turkey, 26 May 2021, (Full Text)

IV. **Investigation of Flexural Properties of Functionally Graded Materials**
ÖZMEN U., ÖZHAN B. B.
5. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21), Newşehir, Turkey, 28 May 2021, (Full Text)

V. **Fonksiyonel Derecelendirilmiş Malzemelerin Mekanik Karakterizasyonu**
ÖZMEN U., ÖZHAN B. B.
5th International Students Science Congress, İzmir, Turkey, 21 May 2021, (Full Text)

VI. **Tavuk Tüyü Fiber/PLA Biyokompozitin Mekanik Özelliklerine Uzun Süreli Yaşlandırmanın Etkisinin İncelenmesi**
AKDERYA T., ÖZMEN U., OKUTAN BABA B.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019, vol.1, pp.505-509, (Full Text)

VII. **Effect of Corrosive Environment on Neat Epoxy Resin**
ASLAN A., DÜZCÜKOĞLU H., ŞAHİN Ö. S., EKREM M., ÖZMEN U.
2nd International Students Science Congress, İzmir, Turkey, 4 - 05 May 2018, (Full Text)

VIII. **IMPACT RESISTANCE OF CURVED SANDWICH PANELS WITH DIFFERENT FOAM MATERIALS**
ÖZMEN U., OKUTAN BABA B.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'xx17), 11 - 13 October 2017, (Summary Text)

IX. **THE EFFECT OF CURVATURE AND FOAM PROPERTIES ON IMPACT RESPONSE OF CURVED SANDWICH PANELS WITH GRADED FOAM**
ÖZMEN U., OKUTAN BABA B.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'xx17), 11 - 13 October 2016, (Summary Text)

X. **The impact response of curved sandwich panels with graded core under different energy levels**
ÖZMEN U., OKUTAN BABA B.
The Twenty-Fifth Annual International Conference on Composites/Nano Engineering (ICCE-25), 16 - 22 July 2017, (Full Text)

XI. **The effects of different energy levels on the impact behavior of flat sandwich panels with graded**

core
ÖZMEN U., OKUTAN BABA B.
The Twenty-Fifth Annual International Conference on Composites/Nano Engineering (ICCE-25), 16 - 22 July 2017, (Full Text)

XII. **Thermal properties of chicken feather/PLA biocomposites**
ÖZMEN U., OKUTAN BABA B.
3 International Porous and Powder Materials Symposium and Exhibition, 12 - 15 September 2017, pp.97, (Summary Text)

XIII. **Low-velocity impact response of flat and curved sandwich panels with graded core**
ÖZMEN U., OKUTAN BABA B.
3 International Porous and Powder Materials Symposium and Exhibition, 12 - 15 September 2017, pp.98, (Summary Text)

XIV. **MACHINERY MONITORING USING VIBRATION SIGNAL ANALYSIS**
ASİLTÜRK İ., ASLANCI H., ÖZMEN U.
40TH IASTEM INTERNATIONAL CONFERENCE, 1 - 02 December 2016, (Full Text)

XV. **Electrochemical discharge machining A review**
ÖZMEN U., ASİLTÜRK İ.
International Conference on Advanced Technology & Sciences, 1 - 03 September 2016, (Full Text)

XVI. **The effect of foam properties on vibration response of curved sandwich composite panels**
YURDDAŞKAL M., ÖZMEN U., KIR M., OKUTAN BABA B.
19TH INTERNATIONAL CONFERENCE ON COMPOSITE STRUCTURES, 5 - 08 September 2016, (Summary Text)

XVII. **THE EFFECT OF FOAM PROPERTIES ON IMPACT RESPONSE OF CURVED SANDWICH COMPOSITES**
ÖZMEN U., OKUTAN BABA B., İÇTEN B. M.
International Conference on Material Science and Technology in Cappadocia, 6 - 08 April 2016, (Full Text)

XVIII. **The Prediction of Elastic Modulus of Chicken Feather Reinforced PLA and the Comparison with Experimental Results**
ÖZMEN U., OKUTAN BABA B.
22nd INTERNATIONAL CONFERENCE ON MATERIALS AND TECHNOLOGY, Slovenia, 20 October 2014, (Summary Text)

XIX. **Kademelendirilmiş Köpük Malzemelerin Sandviç Kirişin Darbe Davranışına Etkisi**
ÖZMEN U., OKUTAN BABA B.
XVIII. ULUSAL MEKANİK KONGRESİ, Manisa, Turkey, 26 August 2013, (Full Text)

Funded Projects

I. Özmen U., Sever K., Atagür M., Karaoğlu H., Şen İ., Tuna S., Çivi C., AYAN K., Project Supported by Higher Education Institutions, BAP Research Project, Gıda İşleme Atıklarından Farklı Üretim Metotlarıyla Polimer Matrisli Biyokompozit Üretimi ve Karakterizasyonu, 2025 - 2026

II. Özmen U., Okutan Baba B., TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Hibrit Üretimle Elde Edilen Sandviç Kompozitlerin Mekanik Karakterizasyonu, 2024 - 2026

III. SAKLAKOĞLU N., ÖZMEN U., ayan k., Apaydın C., Eyici G., Polat S. c., ÇİVİ C., ASLAN N., Project Supported by Higher Education Institutions, BAP Infrastructure, Buğday Sapı Takviyeli Yeşil Kompozitlerin Eklemeli İmalat ve Plastik Enjeksiyon Kalıplama Yöntemleriyle Üretilmesi, Mekanik / Termal Özelliklerinin Karşılaştırılması, 2023 - 2025

IV. ÖZMEN U., AKDERYA T., Üç Boyutlu Yazıcı Üretim Parametrelerinin Fonksiyonel Derecelendirilmiş Biyokompozit Malzemelerin Mekanik, Absorbtif Ve Morfolojik Özelliklerine Etkilerinin İncelenmesi, 2022 - Present

V. OKUTAN BABA B., Kademelendirilmiş Köpük Malzemelere Sahip Eğri Sandviç Kompozitlerin Darbe Etkisindeki Davranışlarının İncelenmesi, 2013 - 2014

VI. PROJE B. E., ÖZMEN U., Project Supported by Higher Education Institutions, BAP MSc, Doğal Fiber Takviyeli Kompozitlerin Üretimi, Mekanik ve Termal Özelliklerinin Tespiti, 2013 - 2015

Patent

I. Ayan K., Özmen U., ÜÇ BOYUTLU YAZICILARDA KULLANILMAK ÜZERE BİR ÜÇ BOYUTLU YAZICI MATERYALİ KESME MEKANİZMASI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2025 004126 , Standard Registration, 2026

Metrics

Publication: 32
Citation (WoS): 23
Citation (Scopus): 182
H-Index (WoS): 2
H-Index (Scopus): 7

Coaching Duties

Refereeing Duties

Non Academic Experience

I. Technical University of Denmark, Guest Researcher