

## Dr. Öğr. Üyesi FARZİN MOZAFARİ

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: ABC-4544-2021

ScopusID: 57209371067

### Eğitim Bilgileri

Post Doktora, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2020 - 2022

Bütünleşik Doktora, Universiti Kebangsaan Malaysia, Faculty of Engineering, Department of Mechanical Engineering, Malezya 2016 - 2020

Yüksek Lisans, Universiti Teknologi Malaysia, Faculty of Engineering, Department of Mechanical Engineering, Malezya 2012 - 2014

Lisans, Islamic Azad University, Faculty of Engineering, Department of Mechanical Engineering, İran 2002 - 2010

### Araştırma Alanları

Katı Cisimler Mekaniği, Kırılma Mekaniği, Sonlu Elemanlar Yöntemi, Sürekli Ortam Mekaniği

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Computational homogenization of fatigue in additively manufactured microlattice structures**  
Mozafari F., Temizer I.  
COMPUTATIONAL MECHANICS, cilt.71, sa.2, ss.367-384, 2023 (SCI-Expanded)
- II. **Static and dynamic deformation response of smart laminated composite plates induced by inclined piezoelectric actuators**  
Gohari S., Mozafari F., Moslemi N., Mouloudi S., Alebrahim R., Ahmed M., Abdi B., Sudin I., Burvill C.  
JOURNAL OF COMPOSITE MATERIALS, cilt.56, sa.21, ss.3269-3293, 2022 (SCI-Expanded)
- III. **A new analytical solution for elastic flexure of thick multi-layered composite hybrid plates resting on Winkler elastic foundation in air and water**  
Gohari S., Mouloudi S., Mozafari F., Alebrahim R., Moslemi N., Burvill C., Albarody T. M. B.  
OCEAN ENGINEERING, cilt.235, 2021 (SCI-Expanded)
- IV. **Finite-element simulation of multi-axial fatigue loading in metals based on a novel experimentally-validated microplastic hysteresis-tracking method**  
Mozafari F., Thamburaja P., Moslemi N., Srinivasa A.  
FINITE ELEMENTS IN ANALYSIS AND DESIGN, cilt.187, 2021 (SCI-Expanded)
- V. **Analytical solution of the electro-mechanical flexural coupling between piezoelectric actuators and flexible-spring boundary structure in smart composite plates**

Gohari S., Mozafari F., Moslemi N., Mouloodi S., Sharifi S., Rahmanpanah H., Burvill C.

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, cilt.21, sa.1, 2021 (SCI-Expanded)

**VI. Mechanical characterization of particulated FRP composite pipes: A comprehensive experimental study**

Saghir F., Gohari S., Mozafari F., Moslemi N., Burvill C., Smith A., Lucas S.

POLYMER TESTING, cilt.93, 2021 (SCI-Expanded)

**VII. Flexural and free vibration control of smart epoxy composite beams using shape memory alloy wires actuator**

Zardian M. G., Moslemi N., Mozafari F., Gohari S., Yahya M. Y., Burvill C., Ayob A.

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, cilt.31, sa.13, ss.1557-1566, 2020 (SCI-Expanded)

**VIII. A novel smart assistive knee brace incorporated with shape memory alloy wire actuator**

Moslemi N., Gohari S., Mozafari F., Zardian M. G., Burvill C., Yahya M. Y., Ayob A.

JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, cilt.31, sa.13, ss.1543-1556, 2020 (SCI-Expanded)

**IX. Uniaxial and biaxial ratcheting behavior of pressurized AISI 316L pipe under cyclic loading: Experiment and simulation**

Moslemi N., Mozafari F., Abdi B., Gohari S., Redzuan N., Burvill C., Ayob A.

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, cilt.179, 2020 (SCI-Expanded)

**X. Fatigue life prediction under variable amplitude loading using a microplasticity-based constitutive model**

Mozafari F., Thamburaja P., Srinivasa A., Abdullah S.

INTERNATIONAL JOURNAL OF FATIGUE, cilt.134, 2020 (SCI-Expanded)

**XI. A rate independent inelasticity model with smooth transition for unifying low-cycle to high-cycle fatigue life prediction**

Mozafari F., Thamburaja P., Srinivasa A. R., Moslemi N.

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, cilt.159, ss.325-335, 2019 (SCI-Expanded)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**I. Optimization procedure for parameter determination of caboche kinematic hardening model**

Moslemi N., Golzardian M., Redzuan N., MOZAFARI F., Ayob A.

2019 Sustainable and Integrated Engineering International Conference, SIE 2019, Putrajaya, Malezya, 8 - 09 Aralık 2019, cilt.884

**II. Effect of pitting corrosion on strength of AISI 410 stainless steel compressor blades**

Mat Noh M., MOZAFARI F., Khattak M. A., Tamin M.

1st International Materials, Industrial and Manufacturing Engineering Conference, MIMEC 2013, Johor-Bahru, Malezya, 4 - 06 Aralık 2013, cilt.606, ss.227-231

## **Burslar**

Horizon 2020 (Co-Funded Brain Circulation Scheme), Avrupa Birliği Komisyonu, 2020 - 2022

FRGS Ph.D Scholarship, Diğer Uluslararası Organizasyonlar, 2016 - 2020