

## Asst. Prof. FARZİN MOZAFARİ

### Personal Information

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### International Researcher IDs

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

ScopusID: 57209371067

### Education Information

Post Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2020 - 2022

Doctorate, Universiti Kebangsaan Malaysia, Faculty of Engineering, Department of Mechanical Engineering, Malaysia 2016 - 2020

Postgraduate, Universiti Teknologi Malaysia, Faculty of Engineering, Department of Mechanical Engineering, Malaysia 2012 - 2014

Undergraduate, Islamic Azad University, Faculty of Engineering, Department of Mechanical Engineering, Iran 2002 - 2010

### Research Areas

Solid Mechanics, Fracture Mechanics, Finite Element Methods, Continuous Mechanics

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

- I. **Computational homogenization of fatigue in additively manufactured microlattice structures**  
Mozafari F., Temizer I.  
COMPUTATIONAL MECHANICS, vol.71, no.2, pp.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, vol.56, no.21, pp.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, vol.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, vol.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., Mouloudi S., Sharifi S., Rahmanpanah H., Burvill C.

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.21, no.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, vol.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, vol.31, no.13, pp.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, vol.31, no.13, pp.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, vol.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, vol.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, vol.159, pp.325-335, 2019 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

- 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, Malaysia, 8 - 09 December 2019, vol.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, Malaysia, 4 - 06 December 2013, vol.606, pp.227-231

### **Scholarships**

Horizon 2020 (Co-Funded Brain Circulation Scheme), European Commission, 2020 - 2022

FRGS Ph.D Scholarship, Other International Organizations, 2016 - 2020