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International Researcher IDs

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

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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., Mouloodi 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., Mouloodi 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., Mouloodi 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., Golzadian 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