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Personal Information

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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., 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