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Education Information

Doctorate, Recep Tayyip Erdogan University, Lisansüstü Eğitim Enstitüsü, Turkey 2023 - Continues

Postgraduate, Recep Tayyip Erdogan University, Lisansüstü Eğitim Enstitüsü, Turkey 2022 - 2023

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2020 - 2022

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2015 - 2019

Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, 2022 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Examining the contact problem of a functionally graded layer supported by an elastic half-plane with the analytical and numerical methods**
YAYLACI M., YAYLI M. Ö., ÖZTÜRK Ş., Ay S., Özdemir M. E., UZUN YAYLACI E., BİRİNCİ A.
Mathematical Methods in the Applied Sciences, vol.47, no.12, pp.10400-10420, 2024 (SCI-Expanded)
- II. **Formability behavior of AH-32 shipbuilding steel strengthened by friction stir process**
SEKBAN D. M., UZUN YAYLACI E., Özdemir M. E., ÖZTÜRK Ş., YAYLACI M., Panda S. K.
Theoretical and Applied Fracture Mechanics, vol.132, 2024 (SCI-Expanded)
- III. **Nonlinear poro-thermo-forced vibration in curved sandwich magneto-electro-elastic shells under hygrothermal environment**
Selvamani R., Ebrahimi F., Yaylacı M., Öztürk Ş., Uzun Yaylacı E.
ACTA MECHANICA, vol.1, no.1, pp.1-11, 2024 (SCI-Expanded)
- IV. **Effects of the stiffness of an inclusion on the mechanical behavior of an aluminum alloy plate with a lateral notch**
Abdelmadjid M., El Sallah Z. M., Yaylacı M., Djafar A. K., Ali B., Abdelghani B., Öztürk Ş., Özdemir M. E., Uzun Yaylacı E.
STEEL AND COMPOSITE STRUCTURES, vol.51, no.1, pp.1-12, 2024 (SCI-Expanded)
- V. **Evaluation of the effect on the permanent tooth germ and adjacent teeth by finite element impact analysis in the traumatized primary tooth Finite element impact analysis in the primary tooth**
Kurt A., Yaylacı M., Dizdar A., Naralan M. E., Uzun Yaylacı E., Öztürk Ş., Çakır B.
INTERNATIONAL JOURNAL OF PAEDIATRIC DENTISTRY, vol.1, pp.1-10, 2024 (SCI-Expanded)

- VI. **Research of the crack problem of a functionally graded layer**
YAYLACI M., UZUN YAYLACI E., Turan M., Özdemir M. E., ÖZTÜRK Ş., Ay S.
Steel and Composite Structures, vol.50, no.1, pp.77-87, 2024 (SCI-Expanded)
- VII. **Analyzing of continuous and discontinuous contact problems of a functionally graded layer: theory of elasticity and finite element method**
YAYLACI M., Öner E., ADIYAMAN G., ÖZTÜRK Ş., UZUN YAYLACI E., BİRİNCİ A.
Mechanics Based Design of Structures and Machines, vol.52, no.8, pp.5720-5738, 2024 (SCI-Expanded)
- VIII. **Analysis of the mechano-bactericidal effects of nanopatterned surfaces on implant-derived bacteria using the FEM**
Uzun Yaylacı E., Özdemir M. E., Güvercin Y., Öztürk Ş., Yaylacı M.
ADVANCES IN NANO RESEARCH, vol.15, no.6, pp.567-577, 2023 (SCI-Expanded)
- IX. **Comparative study by the finite element method of three activities of a wearer of total hip prosthesis during the postoperative period**
Moulgada A., El Sallah Zagane M., YAYLACI M., Djafar A. K., Abderahmane S., ÖZTÜRK Ş., UZUN YAYLACI E.
Structural Engineering and Mechanics, vol.87, no.6, pp.575-583, 2023 (SCI-Expanded)
- X. **Vibration and buckling analyses of FGM beam with edge crack: Finite element and multilayer perceptron methods**
YAYLACI M., Yaylacı E. U., Özdemir M. E., ÖZTÜRK Ş., Sesli H.
Steel and Composite Structures, vol.46, no.4, pp.565-575, 2023 (SCI-Expanded)
- XI. **Analyzing the mechano mechano-bactericidal effect of nano nano-patterned surfaces by finite element method and verification with artificial neural networks**
Yaylacı E. U., YAYLACI M., Özdemir M. E., Terzi M., ÖZTÜRK Ş.
Advances in Nano Research, vol.15, no.2, pp.165-174, 2023 (SCI-Expanded)
- XII. **Implementation of finite element and artificial neural network methods to analyze the contact problem of a functionally graded layer containing crack**
YAYLACI M., Yaylacı E. U., Özdemir M. E., Ay S., ÖZTÜRK Ş.
Steel and Composite Structures, vol.45, no.4, pp.501-511, 2022 (SCI-Expanded)

Supported Projects

Uzun Yaylacı E., Yaylacı M., Çağlak E., Öztürk Ş., Kara A., TUBITAK Project, Biyobeton Uygulamalarında Kullanılmak Üzere Deniz Suyundan Bakteri İzolasyonu, Tanımlanması ve Aktif İzolatların Beton Üzerindeki Fiziksel Etkilerinin İncelenmesi, 2023 - 2024

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