

Prof. MURAT YAYLACI

Personal Information

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International Researcher IDs

ScholarID: n8eLAWQAAAAJ

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Publons / Web Of Science ResearcherID: ABB-5279-2021

ScopusID: 55906015300

Yoksis Researcher ID: 152748

Education Information

Post Doctorate, University of Santiago de Compostela, Faculty of Mathematics, Department of Applied Mathematics, Spain
2021 - 2022

Post Doctorate, Germany 2017 - 2017

Post Doctorate, Universitaet Stuttgart, Institute of Engineering and Computational Mechanics, Institute of Engineering and Computational Mechanics, Germany 2016 - 2016

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2007 - 2013

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2004 - 2007

Undergraduate, Dumlupınar Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, İKİ ELASTİK ÇEYREK DÜZLEME OTURAN İKİ ELASTİK TABAKANIN TEMAS PROBLEMİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği/ Mekanik Anabilimdalı, 2013

Postgraduate, AÇIK DENİZ YAPILARI VE BUNLARIN TASARIM PARAMETRELERİNİN İRDELENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği/ Yapı Anabilimdalı, 2007

Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Structural Mechanics, Finite Element Methods, Biomechanics, Engineering and Technology

Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2023 - Continues
Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - 2023
Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2018
Research Assistant, Karadeniz Technical University, Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2006 - 2014

Academic and Administrative Experience

University Executive Board Member, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği, 2024 - Continues
Dean, Recep Tayyip Erdogan University, Turgut Kıran Denizcilik Fakültesi, 2024 - Continues
Member of the Senate, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği, 2024 - Continues
Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, Turgut Kıran Denizcilik Fakültesi, 2024 - Continues
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Turgut Kıran Denizcilik Fakültesi, 2024 - Continues
Fakülte Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - Continues
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - Continues
Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2014 - Continues
Vice Dean, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - 2024
Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2017 - 2018
Assistant Director of the Institute, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, 2016 - 2017
Head of Department, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2015 - 2016
Deputy Head of Department, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2015

Courses

KIRILMA MEKANİĞİ, Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021
UYGULAMALI SONLU ELEMANLAR ANALİZİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2018 - 2019, 2017 - 2018
UZMANLIK ALAN DERSLERİ II, Postgraduate, 2023 - 2024, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
UZMANLIK ALAN DERSİ II, Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
YÜKSEK LİSANS TEZİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
MUKAVEMET II, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
UZMANLIK ALAN DERSİ-I, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Bitirme Tezi, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
STATİK, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
UZMANLIK ALAN DERSİ I, Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
ELASTİSİTE TEORİSİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Doktora Tezi, Doctorate, 2023 - 2024, 2022 - 2023
İNŞAAT MÜHENDİSLİĞİNDE ANSYS UYGULAMALARI, Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021
DİNAMİK, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015
SONLU ELEMANLAR YÖNTEMİNE GİRİŞ, Doctorate, 2023 - 2024, 2022 - 2023, 2020 - 2021
MUKAVEMET I, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
SUNUM VE SUNUŞ TEKNİKLERİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
İNTEGRAL DÖNÜŞÜM TEKNİKLERİ, Postgraduate, 2023 - 2024, 2022 - 2023, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
TEMAS PROBLEMLERİNDE ANSYS UYGULAMALARI, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
SEMİNER, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
SEMİNER, Doctorate, 2019 - 2020
YAPI STATİĞİ, Undergraduate, 2019 - 2020, 2016 - 2017, 2014 - 2015
DÖNEM PROJESİ, Postgraduate, 2019 - 2020
Mühendislik Bitirme Tezi-II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
YAPI İŞLERİNDE İSG, Postgraduate, 2018 - 2019
MUHENDİSLİK MEKANİĞİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015
Mühendislik Bitirme Tezi-I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
YAPI MALZEMELERİ, Associate Degree, 2016 - 2017
Malzeme Bilimi ve Yapı Malzemeleri, Associate Degree, 2016 - 2017
YAPI DENETİM UYGULAMALARI, Associate Degree, 2014 - 2015
ELASTİSİTE TEORİSİ, Postgraduate, 2015 - 2016
PROJE, Associate Degree, 2014 - 2015
TEKNİK RESİM, Associate Degree, 2014 - 2015
ÇELİK YAPILAR, Associate Degree, 2014 - 2015

Advising Theses

Yaylacı M., Pas payı yüksekliğinin kirişli betonarme döşeme hesaplarına etkisi, Postgraduate, M.ZEYTİN(Student), 2023
Yaylacı M., TBDY 2018'e göre betonarme yapıların farklı tip sismik izolatör birimleri kullanılarak modellenmesi ve analizi, Postgraduate, Ş.ÖZTÜRK(Student), 2023
Yaylacı M., Dolgu barajlarda şev stabilitesi analizi, Postgraduate, Ş.ONAT(Student), 2023
Yaylacı M., Farklı tasarımdaki dental implantların sayısal analizi, Postgraduate, C.AYDIN(Student), 2023
Yaylacı M., Sonlu elemanlar yöntemi ile balık kafeslerinin katı sıvı etkileşim analizi, Postgraduate, M.EMİN(Student), 2021
YAYLACI M., Kemik Dokuda ve İmplant Çevresindeki Gerilme Dağılımına Farklı Protez Tasarımlarının Etkisinin İncelenmesi, Postgraduate, G.NUR(Student), 2020
YAYLACI M., Kemik Dokuda ve İmplant Çevresindeki Gerilme Dağılımına Farklı Protez Malzemelerin Etkisinin İncelenmesi, Postgraduate, M.TERZİ(Student), 2020
YAYLACI M., 2007 ve 2018 Türkiye Deprem Yönetmeliklerine Göre Farklı Döşeme Sistemlerine Sahip Betonarme Bir Yapının Deprem Davranışlarının Karşılaştırılması, Postgraduate, G.EDA(Student), 2020
YAYLACI M., Yarım Düzlem Üzerine Oturan Fonksiyonel Derecelendirilmiş Tabakanın Temas Problemi, Postgraduate, M.YAYLI(Student), 2019
YAYLACI M., Rijit Bir Panç Aracılığıyla Yüklenmiş Ve Rijit Temele Bağlanmış Fonksiyonel Derecelendirilmiş Tabakanın Temas Problemi, Postgraduate, M.ABANOZ(Student), 2018

Advising Graduates (Non-Thesis)

Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), A.DÖNE(Student), 2020
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), G.AYDIN(Student), 2020
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), S.TOPALOĞLU(Student), 2020
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), M.ŞENOL(Student), 2020
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), B.KOÇAK(Student), 2020
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), F.DERECİ(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), Ö.ÖZGÜR(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), A.KÖSEOĞLU(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), T.DORUM(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), F.BAYKUŞAK(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), K.DEDEMEN(Student), 2019
Yaylacı M., YAPI İŞLERİNDE İSG, Masters (Non-Thesis), Y.KESKİN(Student), 2019

Jury Memberships

Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, December, 2023
Associate Professor Exam, Associate Professor Exam, Recep Tayyip Erdoğan Üniversitesi, December, 2023
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Recep Tayyip Erdoğan Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Recep Tayyip Erdoğan Üniversitesi, November, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yalova Üniversitesi, October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Karadeniz Teknik Üniversitesi, October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Recep Tayyip Erdoğan Üniversitesi, October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Aydın Adnan Menderes Üniversitesi, October, 2023
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, August, 2023
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, August, 2023
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, August, 2023
Post Graduate, Post Graduate, Bayburt Üniversitesi, July, 2023
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, February, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Recep Tayyip Erdoğan Üniversitesi, February, 2023
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, February, 2023
Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2023
Doctoral Examination, Doctoral Examination, Recep Tayyip Erdoğan Üniversitesi, January, 2023
Post Graduate, Post Graduate, Aydın Adnan Menderes Üniversitesi, August, 2022
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, August, 2022
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, August, 2022
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, July, 2022
Post Graduate, Post Graduate, Çankırı Karatekin Üniversitesi, June, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Çankırı Karatekin Üniversitesi, October, 2020
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, June, 2020
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, June, 2020
Doctoral Examination, Doctoral Examination, Recep Tayyip Erdoğan Üniversitesi, March, 2020

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2020
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, January, 2020
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, January, 2020
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2020
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, January, 2020
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, January, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Recep Tayyip Erdoğan Üniversitesi, December, 2019
Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, June, 2019
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, May, 2019
Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Formability behavior of AH-32 shipbuilding steel strengthened by friction stir process**
SEKBAN D. M., UZUN YAYLACI E., ÖZDEMİR M. E., ÖZTÜRK Ş., YAYLACI M., PANDA S. K.
Theoretical and Applied Fracture Mechanics, vol.132, 2024 (SCI-Expanded)
- II. **On Nonlinear Dynamic Analysis of Hyperbolic Tangent FG-GPL-Reinforced Shallow Spherical Cap under Supersonic Flow**
Kolahchi R., Wei Y., Furjan M., Yaylacı M., Farrokhian A., Shen X.
WAVES IN RANDOM AND COMPLEX MEDIA, vol.1, no.1, pp.1-18, 2024 (SCI-Expanded)
- III. **Impact of material distribution on the dynamic response of a bidirectional FG beam under general boundary conditions and supported by nonlinear substrate**
Laoud B., Benyoucef S., Bachiri A., Bourada F., Tounsi A., Yaylacı M., Salem M. A., Khedher K. M.
Acta Mechanica, vol.235, no.7, pp.4417-4433, 2024 (SCI-Expanded)
- IV. **Free vibration and bending analysis of porous bi-directional FGM sandwich shell using a TSDT p-version finite element method**
Lakhdar Z., Chorfi S. M., Belalia S. A., Khedher K. M., Alluqmani A. E., Tounsi A., Yaylacı M.
Acta Mechanica, vol.235, no.6, pp.3657-3686, 2024 (SCI-Expanded)
- V. **Multi-method examination of contact mechanics in orthotropic layers under gravity**
Öner E., Uzun Yaylacı E., Yaylacı M.
MECHANICS OF MATERIALS, vol.1, no.1, pp.1-34, 2024 (SCI-Expanded)
- VI. **Vibration of piezo-magneto-thermoelastic FG nanobeam submerged in fluid with variable nonlocal parameter**
Rajendran S., Loganathan R., Yaylacı M., Uzun Yaylacı E., Özdemir M. E.
ADVANCES IN NANO RESEARCH, vol.16, no.5, pp.489-500, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Dynamic Instability Behaviour Prediction of Curved Shell Composite Structure using Different Higher-Order Theories**
Gangwa A. R., Sahoo A., Kumar V., Sharma N., Yaylacı M., Panda S. K.
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.1, no.1, pp.1-20, 2024 (SCI-Expanded)
- X. **Accurate Free and Forced Vibration Behavior Prediction of Functionally Graded Sandwich Beams with Variable Cross-Section: A Finite Element Assessment**

Belabed Z., Tounsi A., Bousahla A. A., Tounsi A., Yaylacı M.

MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.1, no.1, pp.1-15, 2024 (SCI-Expanded)

- XI. **Energy Harvesting Estimation from Vibration of Chopped Fiber Rods Reinforced Microbeams with Piezoelectric Patch Based on Five Parameter-Surface-Strain Gradient Beam Model**
Balubaid M., Ramady A., Mamoud S., Kolahchi R., Kestegar B., Ali S. I., Algarni A., Yaylacı M., Farrokhan A.
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.1, no.1, pp.1-12, 2024 (SCI-Expanded)
- XII. **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)
- XIII. **Investigation Formability Behavior of Friction Stir Welded High Strength Shipbuilding Steel Using Experimental, Finite Element and Artificial Neural Network Methods**
Sekban D. M., Uzun Yaylacı E., Özdemir M. E., Yaylacı M., Tounsi A.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.6, no.2, pp.402-412, 2024 (SCI-Expanded)
- XIV. **Finite element analysis of the behavior of elliptical cracks emanating from the orthopedic cement interface in total hip prostheses**
Benouis A., El Sallah Zagane M., Moulgada A., Yaylacı M., Ait Kaci D., Terzi M., Özdemir M. E., Uzun Yaylacı E.
STRUCTURAL ENGINEERING AND MECHANICS, vol.89, no.5, pp.706-711, 2024 (SCI-Expanded)
- XV. **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)
- XVI. **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, 2024 (SCI-Expanded)
- XVII. **An improved first-order shear deformation theory for wave propagation analysis in FG CNTRC beams resting on a viscoelastic substrate**
Gawah Q., Bourada F., Al-Osta M. A., Tahir S. I., Tounsi A., Yaylacı M.
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- XVIII. **Finite element analysis of ratcheting on beam under bending-bending loading conditions**
Fuyad S. T. M., Md Abdullah Al B., Makfidunnabi M., Nain H. Z., Özdemir M. E., Yaylacı M.
STRUCTURAL ENGINEERING AND MECHANICS, vol.89, no.1, pp.23-31, 2024 (SCI-Expanded)
- XIX. **Computational Modelling and Mechanical Characteristics of Polymeric Hybrid Composite Materials: An Extensive Review**
Pal A., Kumar V., Yaylacı M., Panda S. K.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, vol.1, pp.1-11, 2024 (SCI-Expanded)
- XX. **Combined influence of variable distribution models and boundary conditions on the thermodynamic behavior of FG sandwich plates lying on various elastic foundations**
Lafi D. E., Bouhadra A., Mamen B., Menasria A., Bourada M., Bousahla A. A., Bourada F., Tounsi A., Tounsi A., Yaylacı M.
STRUCTURAL ENGINEERING AND MECHANICS, vol.1, no.1, pp.1-8, 2024 (SCI-Expanded)
- XXI. **Finite element analysis of the femur fracture for a different total hip prosthesis (Charnley, Osteal, and Thompson)**
Zagane, M.S. M. E. S., Moulgada A., Yaylacı M., Abderahmen S., Uzun Yaylacı E.
STRUCTURAL ENGINEERING AND MECHANICS, vol.88, no.6, pp.583-588, 2023 (SCI-Expanded)
- XXII. **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)

- XXIII. **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)
- XXIV. **Numerical simulation of the total hip prosthesis under static and dynamic loading (for three activities)**
El Sallah Zagane M., Moulgada A., YAYLACI M., Abderahmen S., Özdemir M. E., Yaylacı E. U.
Structural Engineering and Mechanics, vol.86, no.5, pp.635-645, 2023 (SCI-Expanded)
- XXV. **The contact problem of a functionally graded layer under the effect of gravity**
Adıyaman G., Öner E., Yaylacı M., Birinci A.
ZAMM ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.1, no.1, pp.1-19, 2023 (SCI-Expanded)
- XXVI. **Free vibration and buckling of functionally graded porous beams using analytical, finite element, and artificial neural network methods**
Turan M., Yaylacı E. U., Yaylacı M.
ARCHIVE OF APPLIED MECHANICS, vol.92, no.13, pp.1-34, 2023 (SCI-Expanded)
- XXVII. **A study on the contact problem of a layer consisting of functionally graded material (FGM) in the presence of body force**
Adıyaman G., Öner E., Yaylacı M., Birinci A.
JOURNAL OF MECHANICS OF MATERIALS AND STRUCTURES, vol.18, no.1, pp.125-141, 2023 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Analyzing of continuous and discontinuous contact problems of a functionally graded layer: theory of elasticity and finite element method**
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Non Academic Experience

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