

Prof. MUSTAFA ÖZGÜR YAYLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-6390-2021

ScopusID: 44661926700

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (Dr), Turkey 2007 - 2010

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1996 - 2000

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2022 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2017 - 2022

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2016 - 2017

Assistant Professor, Bilecik Seyh Edebali University, Faculty Of Engineering, Department Of Civil Engineering, 2012 - 2016

Academic and Administrative Experience

Deputy Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2016 - 2020

Deputy Head of Department, Bilecik Seyh Edebali University, Faculty Of Engineering, Department Of Civil Engineering, 2014 - 2016

Courses

MUKAVEMET I, Undergraduate, 2023 - 2024, 2022 - 2023
PLAK TEORİSİ, Postgraduate, 2022 - 2023, 2021 - 2022
Dinamik, Undergraduate, 2022 - 2023, 2021 - 2022
MÜHENDİSLİKTE MATRİS METOTLAR, Undergraduate, 2023 - 2024, 2022 - 2023
YAPILARIN STABİLİTESİ, Postgraduate, 2023 - 2024, 2022 - 2023
PLAK TEORİSİ, Postgraduate, 2022 - 2023, 2021 - 2022
YÜKSEK LİSANS UZMANLIK ALAN DERSİ III, Postgraduate, 2023 - 2024, 2022 - 2023
YÜKSEK LİSANS UZMANLIK ALAN DERSİ , Postgraduate, 2022 - 2023, 2021 - 2022
DOKTORA UZMANLIK ALAN DERSİ III, Doctorate, 2023 - 2024, 2022 - 2023
YAPILARIN STABİLİTESİ, Postgraduate, 2023 - 2024, 2022 - 2023
Statik, Undergraduate, 2022 - 2023, 2021 - 2022
MUKAVEMET II, Undergraduate, 2022 - 2023, 2021 - 2022
DOKTORA UZMANLIK ALAN DERSİ II, Doctorate, 2022 - 2023, 2021 - 2022
Yapıların Stabilitesi, Postgraduate, 2016 - 2017
Mukavemet 1, Undergraduate, 2016 - 2017
Sonlu Elemanlara Giriş, Undergraduate, 2016 - 2017

Advising Theses

Yaylı M. Ö., NANOKOMPOZİT YAPILARIN GENEL ELASTİK SINIR KOŞULLARINDA DİNAMİK VE STABİLİTE ANALİZLERİ, Doctorate, B.UZUN(Student), 2023
Yaylı M. Ö., Bir çerçeve sistemin klasik ve değiştirilmiş gerilme çifti teorisine göre statik analizi, Postgraduate, A.YİĞİTOĞLU(Student), 2021
YAYLI M. Ö., Free axial vibration analysis of nanoscaled rods embedded in an elastic medium via Rayleigh and nonlocal elasticity theory, Postgraduate, T.Küpelı(Student), 2020
YAYLI M. Ö., Free axial vibration of Rayleigh nanorods based on nonlocal elasticity theory, Postgraduate, Y.Harun(Student), 2020
Yaylı M. Ö., Euler-bernoulli kiriş teorisi kullanılarak farklı kesit ve sınır koşullarında çelik lifli kolonun burkulma ve titreşim analizi, Postgraduate, M.TUNAHAN(Student), 2020
YAYLI M. Ö., Longitudinal vibration analysis of carbon nanotubes with elastically restrained ends using doublet mechanics, Postgraduate, E.Asa(Student), 2019
Yaylı M., Vibration analysis of a functionally graded nanobeam with different boundary conditions using finite element method, Postgraduate, B.Uzun(Student), 2019
YAYLI M. Ö., Buckling analysis and dynamic analysis of steel fiber column with different cross-section and boundary conditions using euler-bernoulli beam theory, Postgraduate, M.Tunahan(Student), 2019
Yaylı M., Free vibration analysis of timoshenko beams with general elastic boundary conditions, Postgraduate, H.Gün(Student), 2018
Yaylı M. Ö., Nano ölçekli çubukların rijit olmayan sınır şartlarında yerel olmayan elastisite teorisine göre titreşim analizleri, Postgraduate, F.YANIK(Student), 2015

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, December, 2023
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Bursa Uludağ Üniversitesi, August, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Bursa Uludağ Üniversitesi, May, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Bursa Uludağ Üniversitesi, March, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Accurate and efficient analytical simulation of free vibration for embedded nonlocal CNTRC beams with general boundary conditions**
UZUN B., YAYLI M. Ö.
Physica B: Condensed Matter, vol.695, 2024 (SCI-Expanded)
- II. **Dynamics of a non-circular-shaped nanorod with deformable boundaries based on second-order strain gradient theory**
CİVALEK Ö., AKPINAR M., Uzun B., YAYLI M. Ö.
ARCHIVE OF APPLIED MECHANICS, no.11, pp.3555-3572, 2024 (SCI-Expanded)
- III. **An investigation on static, vibration and stability analyses of elastically restrained FG porous Timoshenko nanobeams**
Uzun B., YAYLI M. Ö., CİVALEK Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, 2024 (SCI-Expanded)
- IV. **An investigation on ensemble machine learning algorithms for nonlinear stability response of a two-dimensional FG nanobeam**
Tariq A., Uzun B., DELİKTAŞ B., YAYLI M. Ö.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, no.9, 2024 (SCI-Expanded)
- V. **On the thermo-mechanical vibration of an embedded short-fiber-reinforced nanobeam**
AKPINAR M., Uzun B., YAYLI M. Ö.
ADVANCES IN NANO RESEARCH, no.3, pp.197-211, 2024 (SCI-Expanded)
- VI. **Vibration of embedded restrained composite tube shafts with nonlocal and strain gradient effects**
UZUN B., YAYLI M. Ö., CİVALEK Ö.
Acta Mechanica, vol.235, no.8, pp.5137-5159, 2024 (SCI-Expanded)
- VII. **Analyzing torsional vibration in restrained functionally graded nanobeams: nonlocal Lam strain gradient approach**
Kafkas U., UZUN B., YAYLI M. Ö.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.46, no.8, 2024 (SCI-Expanded)
- VIII. **A machine learning approach for buckling analysis of a bi-directional FG microbeam**
Tariq A., Uzun B., DELİKTAŞ B., YAYLI M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, 2024 (SCI-Expanded)
- IX. **An investigation on the torsional vibration of a FG strain gradient nanotube**
UZUN B., YAYLI M. Ö., CİVALEK Ö.
ZAMM Zeitschrift für Angewandte Mathematik und Mechanik, vol.104, no.7, 2024 (SCI-Expanded)
- X. **On the stability analysis of a restrained FG nanobeam in an elastic matrix with neutral axis effects**
CİVALEK Ö., Uzun B., YAYLI M. Ö.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.79, no.7, pp.735-753, 2024 (SCI-Expanded)
- XI. **Elastic medium and torsional spring effects on the nonlocal dynamic of functionally graded porous nanotubes**
UZUN B., YAYLI M. Ö., CİVALEK Ö.
Archive of Applied Mechanics, vol.94, no.5, pp.1291-1311, 2024 (SCI-Expanded)
- XII. **A Unified Technique for Stability Analysis of an Embedded FG Porous Nano/Microbeam via Modified Couple Stress Theory**

Uzun B., Yaylı M. Ö.

Nano, vol.1, pp.1-20, 2024 (SCI-Expanded)

- XIII. **Free Vibration of a Carbon Nanotube-Reinforced Nanowire/Nanobeam with Movable Ends**
UZUN B., YAYLI M. Ö.
Journal of Vibration Engineering and Technologies, vol.12, no.4, pp.6847-6863, 2024 (SCI-Expanded)
- XIV. **Porosity and Deformable Boundary Effects on the Dynamic of Nonlocal Sigmoid and Power-Law FG Nanobeams Embedded in the Winkler-Pasternak Medium**
Uzun B., YAYLI M. Ö.
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.12, no.3, pp.3193-3212, 2024 (SCI-Expanded)
- XV. **Assessment of machine learning methods predicting the axial vibration frequencies of microbars**
Tariq A., UZUN B., DELİKTAŞ B., YAYLI M. Ö.
ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.104, no.3, 2024 (SCI-Expanded)
- XVI. **Size dependent torsional vibration of a rotationally restrained circular FG nanorod via strain gradient nonlocal elasticity**
Uzun B., CİVALEK Ö., Yaylib M. Ö.
ADVANCES IN NANO RESEARCH, no.2, pp.175-186, 2024 (SCI-Expanded)
- XVII. **Rotary inertia effect on dynamic analysis of embedded FG porous nanobeams under deformable boundary conditions with the effect of neutral axis**
Uzun B., YAYLI M. Ö.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.46, no.2, 2024 (SCI-Expanded)
- XVIII. **Winkler-Pasternak foundation effect on the buckling loads of arbitrarily rigid or restrained supported nonlocal beams made of different FGM and porosity distributions**
UZUN B., YAYLI M. Ö.
ZAMM Zeitschrift für Angewandte Mathematik und Mechanik, vol.104, no.2, 2024 (SCI-Expanded)
- XIX. **Porosity effects on the dynamic response of arbitrary restrained FG nanobeam based on the MCST**
Uzun B., Yaylı M. Ö.
Zeitschrift für Naturforschung - Section A Journal of Physical Sciences, vol.79, no.2, pp.183-197, 2024 (SCI-Expanded)
- XX. **Stokes' transform solution method for dynamics of a short-fiber-reinforced nanorod via second-order strain gradient theory**
AKPINAR M., UZUN B., YAYLI M. Ö.
Mechanics Based Design of Structures and Machines, 2024 (SCI-Expanded)
- XXI. **Vibration analysis of embedded porous nanobeams under thermal effects using boosting machine learning algorithms and semi-analytical approach**
Tariq A., UZUN B., DELİKTAŞ B., YAYLI M. Ö.
Mechanics of Advanced Materials and Structures, 2024 (SCI-Expanded)
- XXII. **Nonlinear stability analysis of embedded restrained nanobeams using the Stokes' transformation**
Uzun B., Civalek Ö., Yaylı M. Ö.
Mechanics Based Design of Structures and Machines, vol.52, no.5, pp.2504-2531, 2024 (SCI-Expanded)
- XXIII. **Torsional vibration behavior of a restrained non-circular nanowire in an elastic matrix**
UZUN B., Kafkas U., YAYLI M. Ö., Güçlü G.
Mechanics Based Design of Structures and Machines, vol.52, no.10, pp.8216-8248, 2024 (SCI-Expanded)
- XXIV. **Application of machine learning methodology for investigating the vibration behavior of functionally graded porous nanobeams**
Tariq A., UZUN B., DELİKTAŞ B., YAYLI M. Ö.
Journal of Strain Analysis for Engineering Design, 2024 (SCI-Expanded)
- XXV. **A Combined Method for the Stability Characteristics of FG Porous Nanobeams Embedded in an Elastic Matrix**
UZUN B., YAYLI M. Ö.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2024 (SCI-Expanded)

- XXVI. **Size-dependent nonlinear stability response of perforated nano/microbeams via Fourier series**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
Archive of Applied Mechanics, vol.93, no.12, pp.4425-4443, 2023 (SCI-Expanded)
- XXVII. **Size-dependent Levinson beam theory for thermal vibration of a nanobeam with deformable boundary conditions**
CİVALEK Ö., DELİKTAŞ B., Uzun B., Yayli M. O.
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.103, 2023 (SCI-Expanded)
- XXVIII. **Thermomechanical vibration analysis of a restrained nanobeam**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.29, no.11, pp.1601-1613, 2023 (SCI-Expanded)
- XXIX. **Stability analysis of arbitrary restrained nanobeam embedded in an elastic medium via nonlocal strain gradient theory**
UZUN B., YAYLI M. Ö.
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, vol.58, no.8, pp.672-683, 2023 (SCI-Expanded)
- XXX. **Dynamics of a FG porous microbeam with metal foam under deformable boundaries**
CİVALEK Ö., ERSOY H., UZUN B., YAYLI M. Ö.
Acta Mechanica, vol.234, no.11, pp.5385-5404, 2023 (SCI-Expanded)
- XXXI. **Buckling analysis of perforated nano/microbeams with deformable boundary conditions via nonlocal strain gradient elasticity**
Kafkas U., Unal Y., YAYLI M. Ö., Uzun B.
ADVANCES IN NANO RESEARCH, no.4, pp.339-353, 2023 (SCI-Expanded)
- XXXII. **On nonlinear stability analysis of saturated embedded porous nanobeams**
Civalek Ö., Uzun B., Yayli M. Ö.
International Journal of Engineering Science, vol.190, 2023 (SCI-Expanded)
- XXXIII. **An eigenvalue solution for nonlocal vibration of guide supported perfect/imperfect functionally graded power-law and sigmoid nanobeams on one-parameter elastic foundation**
CİVALEK Ö., Uzun B., YAYLI M. Ö.
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.103, no.9, 2023 (SCI-Expanded)
- XXXIV. **Thermal vibration of perforated nanobeams with deformable boundary conditions via nonlocal strain gradient theory**
Kafkas U., Uzun B., YAYLI M. Ö., Guclu G.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.78, no.8, pp.681-701, 2023 (SCI-Expanded)
- XXXV. **A Hardening Nonlocal Elasticity Approach to Axial Vibration Analysis of an Arbitrarily Supported FG Nanorod**
Uzun B., Civalek O., YAYLI M. Ö.
PHYSICAL MESOMECHANICS, vol.26, no.3, pp.295-312, 2023 (SCI-Expanded)
- XXXVI. **Torsional static and vibration analysis of a non-circular restrained micro/nanowire**
Uzun B., Yayli M. Ö.
WAVES IN RANDOM AND COMPLEX MEDIA, vol.2023, pp.1-25, 2023 (SCI-Expanded)
- XXXVII. **A hardening nonlocal approach for vibration of axially loaded nanobeam with deformable boundaries**
Uzun B., Civalek Ö., Yayli M. Ö.
Acta Mechanica, vol.234, no.5, pp.2205-2222, 2023 (SCI-Expanded)
- XXXVIII. **Torsional and axial vibration of restrained saturated nanorods via strain gradient elasticity**
UZUN B., CİVALEK Ö., YAYLI M. Ö.
Archive of Applied Mechanics, vol.93, no.4, pp.1605-1630, 2023 (SCI-Expanded)
- XXXIX. **Size-Dependent Vibration of Porous Bishop Nanorod with Arbitrary Boundary Conditions and Nonlocal Elasticity Effects**
UZUN B., Kafkas U., DELİKTAŞ B., YAYLI M. Ö.

JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.11, no.3, pp.809-826, 2023 (SCI-Expanded)

- XL. **Critical buckling loads of embedded perforated microbeams with arbitrary boundary conditions via an efficient solution method**
Uzun B., Civalek Ö., Yaylı M. Ö.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.78, no.2, pp.195-207, 2023 (SCI-Expanded)
- XLII. **Thermal buckling analysis of a saturated porous thick nanobeam with arbitrary boundary conditions**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
Journal of Thermal Stresses, vol.46, no.1, pp.1-21, 2023 (SCI-Expanded)
- XLIII. **Vibration of FG nano-sized beams embedded in Winkler elastic foundation and with various boundary conditions**
Uzun B., Civalek Ö., Yaylı M. Ö.
Mechanics Based Design of Structures and Machines, vol.51, no.1, pp.481-500, 2023 (SCI-Expanded)
- XLIV. **Torsional static and free vibration analysis of noncircular short-fiber-reinforced microwires with arbitrary boundary conditions**
Civalek Ö., Uzun B., Yaylı M. Ö.
Polymer Composites, 2023 (SCI-Expanded)
- XLV. **Size dependent torsional vibration of a restrained single walled carbon nanotube (SWCNT) via nonlocal strain gradient approach**
Civalek O., UZUN B., YAYLI M. Ö.
MATERIALS TODAY COMMUNICATIONS, vol.33, 2022 (SCI-Expanded)
- XLVI. **Axial and torsional free vibrations of restrained single-walled boron nitride nanotube (SWBNNT) embedded in an elastic medium via nonlocal strain gradient theory**
UZUN B., CİVALEK Ö., YAYLI M. Ö.
WAVES IN RANDOM AND COMPLEX MEDIA, 2022 (SCI-Expanded)
- XLVII. **Nonlocal strain gradient approach for axial vibration analysis of arbitrary restrained nanorod**
UZUN B., CİVALEK Ö., YAYLI M. Ö.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.44, no.11, 2022 (SCI-Expanded)
- XLVIII. **Nonlocal Free Vibration of Embedded Short-Fiber-Reinforced Nano-/Micro-Rods with Deformable Boundary Conditions**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
MATERIALS, vol.15, no.19, 2022 (SCI-Expanded)
- XLIX. **Porosity dependent torsional vibrations of restrained FG nanotubes using modified couple stress theory**
UZUN B., Yaylı M. Ö.
MATERIALS TODAY COMMUNICATIONS, vol.32, 2022 (SCI-Expanded)
- L. **Torsional and longitudinal vibration analysis of a porous nanorod with arbitrary boundaries**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
Physica B: Condensed Matter, vol.633, 2022 (SCI-Expanded)
- L. **An eigenvalue solution for torsional vibrations of restrained porous nanorods using doublet mechanics theory**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.44, no.4, 2022 (SCI-Expanded)
- LI. **Finite element formulation for nano-scaled beam elements**
Civalek Ö., Uzun B., Yaylı M. Ö.
ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, vol.102, no.3, 2022 (SCI-Expanded)
- LII. **An effective analytical method for buckling solutions of a restrained FGM nonlocal beam**
Civalek O., UZUN B., YAYLI M. Ö.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.41, no.2, 2022 (SCI-Expanded)

- LIII. **Buckling analysis of restrained nanobeams using strain gradient elasticity**
Yaylı M. Ö., Uzun B., Deliktaş B.
Waves in Random and Complex Media, vol.32, no.6, pp.2960-2979, 2022 (SCI-Expanded)
- LIV. **A Fourier sine series solution of static and dynamic response of nano/micro-scaled FG rod under torsional effect**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
ADVANCES IN NANO RESEARCH, vol.12, no.5, pp.467-482, 2022 (SCI-Expanded)
- LV. **Comparison of the Effect of Ketamine and Dexmedetomidine Combined with Total Intravenous Anesthesia in Laparoscopic Cholecystectomy Procedures: A Prospective Randomized Controlled Study**
Mercanoglu E. E., Kelebek N. G., Turker G., Aksu H., YAYLI M. Ö., Karakuzu Z., Turkcan S., Ozcan B.
International Journal of Clinical Practice, vol.2022, 2022 (SCI-Expanded)
- LVI. **Torsional vibrations of functionally graded restrained nanotubes**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
European Physical Journal Plus, vol.137, no.1, 2022 (SCI-Expanded)
- LVII. **Buckling analysis of nanobeams with deformable boundaries via doublet mechanics**
Civalek O., UZUN B., YAYLI M. Ö.
ARCHIVE OF APPLIED MECHANICS, vol.91, no.12, pp.4765-4782, 2021 (SCI-Expanded)
- LVIII. **Size-Dependent Free Vibration of Silicon Nanobeams with Different Boundary Conditions and Beam Theories**
UZUN B., YAYLI M. Ö.
ACTA PHYSICA POLONICA A, vol.140, no.2, pp.161-174, 2021 (SCI-Expanded)
- LIX. **Free vibration analysis of nanotube based sensors including rotary inertia based on the Rayleigh beam and modified couple stress theories**
Uzun B., Kafkas U., Yaylı M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.27, no.5, pp.1913-1923, 2021 (SCI-Expanded)
- LX. **Vibration analysis of steel fiber reinforced self-compacting concrete beam on elastic foundation**
Ozdemir M. T., Kobyra V., YAYLI M. Ö., MARDANI AGHABAGLOU A.
COMPUTERS AND CONCRETE, vol.27, no.2, pp.85-97, 2021 (SCI-Expanded)
- LXI. **Longitudinal vibration analysis of FG nanorod restrained with axial springs using doublet mechanics**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
Waves in Random and Complex Media, 2021 (SCI-Expanded)
- LXII. **Axial dynamic analysis of a Bishop nanorod with arbitrary boundary conditions**
Uzun B., Kafkas U., Yaylı M. Ö.
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.100, no.12, 2020 (SCI-Expanded)
- LXIII. **Stability analysis of restrained nanotubes placed in electromagnetic field**
Uzun B., Kafkas U., Yaylı M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.26, no.12, pp.3725-3736, 2020 (SCI-Expanded)
- LXIV. **Stability analysis of nanobeams placed in electromagnetic field using a finite element method**
Civalek Ö., Uzun B., Yaylı M. Ö.
Arabian Journal of Geosciences, vol.13, 2020 (SCI-Expanded)
- LXV. **Frequency, bending and buckling loads of nanobeams with different cross sections**
Civalek O., Uzun B., Yaylı M. Ö.
ADVANCES IN NANO RESEARCH, vol.9, pp.91-104, 2020 (SCI-Expanded)
- LXVI. **Size-dependent transverse and longitudinal vibrations of embedded carbon and silica carbide nanotubes by nonlocal finite element method**
Civalek O., Uzun B., Yaylı M. Ö., Akgöz B.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, 2020 (SCI-Expanded)
- LXVII. **Longitudinal vibration of carbon nanotubes with elastically restrained ends using doublet mechanics**

- Yaylı M. Ö., Asa E.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS,
vol.26, pp.499-508, 2020 (SCI-Expanded)
- LXVIII. **Nonlocal vibration analysis of Ti-6Al-4V/ZrO₂ functionally graded nanobeam on elastic matrix**
Uzun B., Yaylı M. Ö.
ARABIAN JOURNAL OF GEOSCIENCES, vol.13, 2020 (SCI-Expanded)
- LXIX. **Free vibration of FG nanobeam using a finite-element method**
Uzun B., Yaylı M. Ö., Deliktaş B.
MICRO & NANO LETTERS, vol.15, pp.35-40, 2020 (SCI-Expanded)
- LXX. **Free vibration analysis of a rotationally restrained (FG) nanotube**
YAYLI M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS,
vol.25, no.10, pp.3723-3734, 2019 (SCI-Expanded)
- LXXI. **Torsional vibration of cracked carbon nanotubes with torsional restraints using Eringen's nonlocal differential model**
YAYLI M. Ö., YEREL KANDEMİR S., ÇERÇEVİK A. E.
JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL, vol.38, no.1, pp.70-87, 2019 (SCI-Expanded)
- LXXII. **Effects of rotational restraints on the thermal buckling of carbon nanotube**
YAYLI M. Ö.
MICRO & NANO LETTERS, vol.14, no.2, pp.158-162, 2019 (SCI-Expanded)
- LXXIII. **On the torsional vibrations of restrained nanotubes embedded in an elastic medium**
YAYLI M. Ö.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.40, no.9, 2018 (SCI-Expanded)
- LXXIV. **Torsional vibrations of restrained nanotubes using modified couple stress theory**
YAYLI M. Ö.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS,
vol.24, no.8, pp.3425-3435, 2018 (SCI-Expanded)
- LXXV. **Free longitudinal vibration of a nanorod with elastic spring boundary conditions made of functionally graded material**
YAYLI M. Ö.
MICRO & NANO LETTERS, vol.13, no.7, pp.1031-1035, 2018 (SCI-Expanded)
- LXXVI. **An efficient solution method for the longitudinal vibration of nanorods with arbitrary boundary conditions via a hardening nonlocal approach**
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JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY, Journal Indexed in SCI-E, February 2023
COMPOSITE STRUCTURES, Journal Indexed in SCI-E, February 2023
AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, January 2023
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, Journal Indexed in SCI-E, January 2023
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, January 2023
ENGINEERING FRACTURE MECHANICS, Journal Indexed in SCI-E, January 2023
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, Journal Indexed in SCI-E, December 2022
AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, December 2022
SENSORS, Journal Indexed in SCI-E, December 2022
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, Journal Indexed in SCI-E, November 2022

ACTA MECHANICA, Journal Indexed in SCI-E, November 2022
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, Journal Indexed in SCI-E, November 2022
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, Journal Indexed in SCI-E, November 2022
JOURNAL OF MARINE SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, October 2022
JOURNAL OF MARINE SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, October 2022
COMPOSITE STRUCTURES, Journal Indexed in SCI-E, September 2022
AEJ - ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, September 2022
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, Journal Indexed in SCI-E, September 2022
ADVANCES IN NANO RESEARCH, Journal Indexed in SCI-E, September 2022
ACTA MECHANICA, Journal Indexed in SCI-E, September 2022
WAVES IN RANDOM AND COMPLEX MEDIA, Journal Indexed in SCI-E, September 2022
ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, July 2022
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, Journal Indexed in SCI-E, June 2022
STEEL AND COMPOSITE STRUCTURES, Journal Indexed in SCI-E, May 2022
ADVANCES IN NANO RESEARCH, Journal Indexed in SCI-E, May 2022
JOURNAL OF VIBRATION AND CONTROL, Journal Indexed in SCI-E, May 2022
ENGINEERING STRUCTURES, Journal Indexed in SCI-E, April 2022
ENGINEERING STRUCTURES, Journal Indexed in SCI-E, April 2022
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, Journal Indexed in SCI-E, April 2022
SENSORS, Journal Indexed in SCI-E, April 2022
STEEL AND COMPOSITE STRUCTURES, Journal Indexed in SCI-E, April 2022
COMPOSITE STRUCTURES, Journal Indexed in SCI-E, April 2022
ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, April 2022
MEMBRANES, SCI Journal, March 2022
MATERIALS, Journal Indexed in SCI-E, February 2022
PHYSICA B-CONDENSED MATTER, SCI Journal, February 2022
CURRENT NANOSCIENCE, Journal Indexed in SCI-E, February 2022
ADVANCES IN NANO RESEARCH, Journal Indexed in SCI-E, February 2022
ADVANCES IN NANO RESEARCH, Journal Indexed in SCI-E, February 2022
ADVANCES IN NANO RESEARCH, Journal Indexed in SCI-E, February 2022
ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, February 2022
STRUCTURAL ENGINEERING AND MECHANICS, Journal Indexed in SCI-E, January 2022
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, SCI Journal, January 2022
ADVANCES IN NANO RESEARCH, SCI Journal, January 2022
MATHEMATICS, Journal Indexed in SCI-E, January 2022
STEEL AND COMPOSITE STRUCTURES, Journal Indexed in SCI-E, January 2022
STEEL AND COMPOSITE STRUCTURES, SCI Journal, December 2021
PHYSICA B-CONDENSED MATTER, SCI Journal, December 2021
ADVANCES IN NANO RESEARCH, SCI Journal, December 2021
PHYSICA B-CONDENSED MATTER, SCI Journal, November 2021
SENSORS AND ACTUATORS A-PHYSICAL, SCI Journal, October 2021
COMPOSITE STRUCTURES, SCI Journal, October 2021
COMPOSITE STRUCTURES, SCI Journal, October 2021
ADVANCES IN NANO RESEARCH, SCI Journal, October 2021
COMPOSITE STRUCTURES, SCI Journal, October 2021
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, October 2021
WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal, October 2021
ADVANCES IN NANO RESEARCH, SCI Journal, October 2021
ADVANCES IN NANO RESEARCH, SCI Journal, October 2021

TRANSPORT IN POROUS MEDIA, SCI Journal, September 2021
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, September 2021
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, August 2021
SENSORS AND ACTUATORS A-PHYSICAL, SCI Journal, July 2021
ADVANCES IN NANO RESEARCH, SCI Journal, July 2021
TRANSPORT IN POROUS MEDIA, SCI Journal, July 2021
Carbon Trends, Other journals, July 2021
JOURNAL OF ASIAN ARCHITECTURE AND BUILDING ENGINEERING, SCI Journal, June 2021
WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal, May 2021
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, May 2021
STEEL AND COMPOSITE STRUCTURES, SCI Journal, May 2021
SMART STRUCTURES AND SYSTEMS, SCI Journal, May 2021
COMPOSITE STRUCTURES, SCI Journal, April 2021
MATERIALS TECHNOLOGY, SCI Journal, March 2021
ENGINEERING WITH COMPUTERS, SCI Journal, March 2021
COMPOSITE STRUCTURES, SCI Journal, March 2021
ENGINEERING WITH COMPUTERS, SCI Journal, February 2021
STEEL AND COMPOSITE STRUCTURES, SCI Journal, February 2021
ALEXANDRIA ENGINEERING JOURNAL, SCI Journal, January 2021
SMART STRUCTURES AND SYSTEMS, SCI Journal, December 2020
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, SCI Journal, November 2020
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, November 2020
REVISTA DE LA CONSTRUCCION, SCI Journal, October 2020
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, SCI Journal, August 2020
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, June 2020
WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal, January 2020
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, SCI Journal, January 2020
IEEE ACCESS, SCI Journal, January 2020
COMPOSITE STRUCTURES, SCI Journal, January 2020
WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal, January 2020
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, SCI Journal, January 2020
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, SCI Journal, January 2020
COMPOSITE STRUCTURES, SCI Journal, January 2020
JOURNAL OF ENVIRONMENTAL MANAGEMENT, SCI Journal, January 2020
SHOCK AND VIBRATION, SCI Journal, January 2020
COMPOSITES PART B-ENGINEERING, SCI Journal, January 2020
OCEAN ENGINEERING, SCI Journal, January 2020
MICRO & NANO LETTERS, SCI Journal, December 2019
ACTA ASTRONAUTICA, SCI Journal, December 2019
COMPOSITE STRUCTURES, SCI Journal, October 2019
COMPOSITES PART B-ENGINEERING, SCI Journal, June 2019
EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, SCI Journal, June 2019
Coupled Systems Mechanics, An International Journal, Journal Indexed in ESCI, June 2019
ACTA PHYSICA POLONICA A, SCI Journal, March 2019
JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL, SCI Journal, March 2019
OCEAN ENGINEERING, SCI Journal, January 2019
EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, SCI Journal, January 2019
JOURNAL OF LOW FREQUENCY NOISE VIBRATION AND ACTIVE CONTROL, SCI Journal, January 2019

MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, SCI Journal, January 2019
JOURNAL OF AEROSPACE ENGINEERING, SCI Journal, January 2019
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, January 2019
PHYSICA B-CONDENSED MATTER, SCI Journal, January 2019
ACTA ASTRONAUTICA, SCI Journal, January 2019
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal, January 2018
Micro and Nanosystems , Journal Indexed in ESCI, January 2018
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, January 2018
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, March 2017
Journal of Vibroengineering , Journal Indexed in ESCI, January 2017
CHAOS, SCI Journal, December 2016
APPLIED MATHEMATICAL MODELLING, SCI Journal, December 2016
JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE A, SCI Journal, September 2016
Journal of Vibroengineering , Journal Indexed in ESCI, July 2016
CHAOS, SCI Journal, June 2016
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, May 2016
JOURNAL OF VIBROENGINEERING, SCI Journal, February 2016
Journal of Vibroengineering , Journal Indexed in ESCI, January 2016
JOURNAL OF VIBROENGINEERING, SCI Journal, May 2015
JOURNAL OF VIBROENGINEERING, SCI Journal, January 2015
APPLIED MATHEMATICAL MODELLING, SCI Journal, January 2015

Metrics

Publication: 151
Citation (WoS): 1533
Citation (Scopus): 1587
H-Index (WoS): 25
H-Index (Scopus): 24

Awards

Yaylı M. Ö., 2023 Yılı Stanford Üniversitesi ve Elsevier Yüzde İkilik Dilimde En Etkili Bilim İnsanı, Bursa Uludağ Üniversitesi, September 2024
Yaylı M. Ö., 2022 Yılı Stanford Üniversitesi ve Elsevier Yüzde İkilik Dilimde En Etkili Bilim İnsanı, Bursa Uludağ Üniversitesi, December 2023
Yaylı M. Ö., 2021 Yılı Stanford Üniversitesi ve Elsevier Yüzde İkilik Dilimde En Etkili Bilim İnsanı, Bursa Uludağ Üniversitesi, December 2022
Yaylı M. Ö., 2020 Yılı Stanford Üniversitesi ve Elsevier Yüzde İkilik Dilimde En Etkili Bilim İnsanı, Bursa Uludağ Üniversitesi, December 2021

Non Academic Experience

Sakarya İl Özel İdaresi
Sakarya İl Özel İdaresi

Karabük İl Özel İdaresi
Köy Hizmetleri Genel Müdürlüğü
Adapazarı Camili 1. Etap Kalıcı Konut İnşaatı (MEER Projesi)