

Assoc. Prof. SAVAŞ EVRAN

Personal Information

Email: sevrans@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/15029>

International Researcher IDs

ScholarID: zWOvPCwAAAAJ

ORCID: 0000-0002-7512-5997

Publons / Web Of Science ResearcherID: LWI-7458-2024

ScopusID: 55839982600

Yoksis Researcher ID: 27168

Education Information

Doctorate, Pamukkale University, Institute Of Science, Makine Mühendisliği, Turkey 2010 - 2015

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mechanical Education, Turkey 2007 - 2009

Research Areas

Energy, Machine Theory and Dynamics, Finite Element Methods, Mathematical Modeling Techniques

Academic and Administrative Experience

Academic Development Unit Coordinator, Marmara University, Rectorate, 2024 - Continues

BAP Scientific Commissioner, Marmara University, Rectorate, 2024 - Continues

Sustainability Office Coordinatorship, Marmara University, Rectorate, 2024 - Continues

Sabotek Board Member, Marmara University, Rectorate, 2024 - Continues

Digital Transformation and Data Management Coordinatorship, Marmara University, Rectorate, 2024 - Continues

Curriculum Commission Member, Marmara University, Faculty of Applied Sciences, 2023 - Continues

Rector's Advisor, Marmara University, Rectorate, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **CFD analysis of particle shape and Reynolds number on heat transfer characteristics of nanofluid in heated tube**
Evrans S., Kurt M.
Open Physics, vol.22, no.1, pp.20240046, 2024 (SCI-Expanded)
- II. **Influence of curing time on the experimental and numerical analysis of 3D printed gelatin methacryloyl (GELMA) membranes**
Ayran M., ULAĞ S., Ervan S., GÜNDÜZ O.
Materials Letters, vol.363, 2024 (SCI-Expanded)
- III. **CFD and statistical analysis of flow mass ratios on temperature and pressure drops of double pipe heat exchanger**

Evrans S., Kurt M.

INTERNATIONAL JOURNAL OF LOW CARBON TECHNOLOGIES, vol.18, pp.771-780, 2023 (SCI-Expanded)

- IV. **Numerical analysis of fluid type and flow mass rate on logarithmic temperature difference and heat transfer coefficient of double pipe heat exchanger**
EVRAN S., KURT M.
Numerical Heat Transfer; Part A: Applications, 2023 (SCI-Expanded)
- V. **Surface roughness and material removal rate analyses of hard copper alloy in wire electrical discharge machining**
EVRAN S.
EMERGING MATERIALS RESEARCH, vol.9, no.3, pp.730-737, 2020 (SCI-Expanded)
- VI. **Experimental and statistical free vibration analyses of laminated composite beams with functionally graded fiber orientation angles**
EVRAN S.
POLYMERS & POLYMER COMPOSITES, vol.28, no.7, pp.513-520, 2020 (SCI-Expanded)
- VII. **Numerical and statistical buckling analysis of laminated composite plates with functionally graded fiber orientation angles**
EVRAN S.
POLYMERS & POLYMER COMPOSITES, vol.28, no.7, pp.502-512, 2020 (SCI-Expanded)
- VIII. **Free vibration analysis of axially layered functionally graded short beams using experimental and finite element methods**
Yilmaz Y., EVRAN S.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.23, no.4, pp.453-460, 2016 (SCI-Expanded)
- IX. **Buckling Analyses of Axially Functionally Graded Nonuniform Columns with Elastic Restraint Using a Localized Differential Quadrature Method**
Yilmaz Y., Girgin Z., Evran S.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2013, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Numerical and Statistical Aerodynamic Performance Analysis of NACA0009 and NACA4415 Airfoils**
Evrans S., Yildir S. Z.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.27, no.3, 2024 (ESCI)
- II. **Numerical evaluation of material type on topology optimization of thin square plates**
EVRAN S., KURT M.
Journal of Materials and Manufacturing, vol.3, no.1, pp.1-7, 2024 (Peer-Reviewed Journal)
- III. **Effects of Forces and Material Types on Fatigue Analysis of Beams**
EVRAN S.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.4, pp.315-321, 2023 (Peer-Reviewed Journal)
- IV. **Effect of material type, cutout shape and temperature on stress and deformation analyses of thin plates**
EVRAN S.
Journal of Materials and Manufacturing, vol.1, no.2, pp.10-16, 2022 (Peer-Reviewed Journal)
- V. **Impacts of Valve Angle and Fluid Velocity on Pressure Drop in Pipe Flow**
EVRAN S.
International Journal of Engineering Science And Application, vol.6, no.3, pp.73-77, 2022 (Peer-Reviewed Journal)
- VI. **Effects of Fiber Type and Number of Layers on Modal Analysis of Laminated Composite Plates**
EVRAN S., YILMAZ Y.
ALKU Journal of Science, vol.4, no.2, pp.63-70, 2022 (Peer-Reviewed Journal)
- VII. **Eigenvalue Buckling Analysis of Beams with Different Width and Square Cutout**
EVRAN S., Yildir S. Z.

- Aksaray University Journal of Science and Engineering, vol.6, no.1, pp.71-78, 2022 (Peer-Reviewed Journal)
- VIII. **Buckling Analysis of Cantilever Laminated Hybrid Composite Plates using Finite Element and Statistical Methods**
EVRAN S.
ALKU Journal of Science, vol.3, no.3, pp.1-8, 2021 (Peer-Reviewed Journal)
- IX. **Evaluation of Cross-Section and Wing Length in Free Vibration Analysis of Aircraft Wings**
EVRAN S., KURT M., KURT A.
Journal of aviation (Online), vol.4, no.2, pp.17-24, 2020 (Peer-Reviewed Journal)
- X. **Investigation of Effects of Fiber Orientation Angles on Deflection Behavior of Cantilever Laminated Composite Square Plates**
EVRAN S.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.633-639, 2020 (ESCI)
- XI. **THREE-DIMENSIONAL MODAL ANALYSIS OF BEAMS WITH TRIANGULAR AND HEXAGONAL CROSS SECTIONS USING DIFFERENT CERAMIC MATERIALS**
EVRAN S.
International Journal of Engineering and Innovative Research, vol.2, no.2, pp.129-136, 2020 (Peer-Reviewed Journal)
- XII. **Investigation of Peak Power and Technology of Photovoltaic In Energy Output According To System Loss**
EVRAN S., DENİZ O.
International Journal of Engineering and Innovative Research, vol.2, no.1, pp.1-7, 2020 (Peer-Reviewed Journal)
- XIII. **Evaluation of Effects of Orientation Angle and Mounting Position of PV Modules in Energy Output for Different Longitudes**
EVRAN S., DENİZ O.
International Journal of Engineering and Innovative Research, vol.2, no.1, pp.54-60, 2020 (Peer-Reviewed Journal)
- XIV. **Buckling Temperature Analysis of Laminated Composite Plates with Circular and Semicircular Holes**
EVRAN S.
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.21, no.1, pp.173-181, 2020 (Peer-Reviewed Journal)
- XV. **Finite element analysis of thermal stress of laminated composite plates using Taguchi method**
EVRAN S.
Manas Journal of Engineering, vol.7, no.2, pp.121-125, 2019 (Peer-Reviewed Journal)
- XVI. **Thermal Buckling Analysis of Axially Layered Functionally Graded Thin Beams under Clamped-Clamped Boundary Conditions**
EVRAN S.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.4, pp.1069-1074, 2019 (ESCI)
- XVII. **Twisting Angle Analysis of Laminated Composite Plates using Numerical and Statistical Methods**
EVRAN S.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.190-195, 2019 (Peer-Reviewed Journal)
- XVIII. **Investigation of Effects of Layer Positions on Mechanical Buckling Behavior of Axially Layered Functionally Graded Beams**
EVRAN S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISI, vol.25, no.1, pp.20-26, 2019 (ESCI)
- XIX. **Thermal Stress Analysis of Axially Layered Functionally Graded Beams Using Finite Element and Taguchi Methods**
EVRAN S.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.19, no.4, pp.858-866, 2018 (Peer-Reviewed Journal)
- XX. **Analysis of Angle of Twist of Axially Layered Functionally Graded Circular Hollow Shafts**

EVİRAN S.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.Özel, pp.556-560, 2018 (Peer-Reviewed Journal)

XXI. Critical Buckling Load Analysis of Layered Functionally Graded Shell Structures

EVİRAN S.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.20, no.59, pp.585-595, 2018 (Peer-Reviewed Journal)

XXII. Natural Frequency Analysis of Layered Functionally Graded Beams

EVİRAN S.

Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.19, no.1, pp.83-94, 2018 (Peer-Reviewed Journal)

XXIII. Bending Stress Analysis of Axially Layered Functionally Graded Beams

EVİRAN S.

ENGINEERING SCIENCES, vol.7, no.1, pp.390-398, 2018 (Peer-Reviewed Journal)

XXIV. Numerical First Mode Frequency Analysis of Axially Layered Functionally Graded Tapered Beams

EVİRAN S.

ENGINEERING SCIENCES, vol.7, no.1, pp.399-406, 2018 (Peer-Reviewed Journal)

XXV. The effects of layer arrangements on fundamental frequency of layered beams in axial direction

EVİRAN S., YILMAZ Y.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, no.5, pp.968-977, 2017 (Peer-Reviewed Journal)

Books

I. Current Developments in Biosensor Applications and Smart Strategies

Karakuş S., Küçükdeniz T., Evran S., Kurt M.

in: Current Developments in Biosensor Applications and Smart Strategies, Selcan Karakuş, Editor, IntechOpen, London, pp.1-12, 2025

Papers Published in Refereed Scientific Meetings

I. Effect of Cutout Shape and Material Type on Modal Analysis of Plates

EVİRAN S., KURT M.

6. International New York Academic Research Congress, Turkey, 12 November 2022, pp.1-5

II. Evaluation of Torques and Transverse Holes in the Total Deformation of Shafts

EVİRAN S., KURT M.

11. International Istanbul Scientific Research Congress, İstanbul, Turkey, 15 October 2022, pp.117-121

III. Impact of Hole Numbers on Modal Analysis of Square Plates with Different Thicknesses

EVİRAN S., Yıldır S. Z.

International Technology Sciences and Design Symposium, Giresun, Turkey, 02 June 2022, pp.149-152

IV. Effects of Fluid Inlet Temperature and Velocity on Fluid Outlet in Pipe Flow

EVİRAN S.

5. International "Başkent" Congress on Physical, Social and Health Sciences, Turkey, 11 - 12 June 2022, pp.46-49

V. Evaluation of Compression Force and Hole Size on Von Mises Stress of Plates

EVİRAN S., Yıldır S. Z.

8. Science Days, İstanbul, Turkey, 09 May 2022, pp.64

VI. Daily Average Global Solar Irradiance Analysis of Different Locations Based on Months and Hours

EVİRAN S., Gökbel E., Acar E., Ünlü M. N., Yıldır S. Z., Aslan S. S.

8. International Istanbul Scientific Research Congress, İstanbul, Turkey, 12 March 2022, pp.697-703

VII. Effect of Hole Positions on Displacement Behavior of Beams with Different Thicknesses

EVİRAN S., KURT M.

3. International Halich Congress on Multidisciplinary Scientific Research, İstanbul, Turkey, 12 March 2022, pp.292-296

VIII. Evaluation of Effects of Stacking Sequence, Element Type, and Mesh Size on Modal Analysis of Laminated Composite Plates Using Finite Element and Taguchi Methods

EVİRAN S.

4rd International Congress on Engineering, Architecture and Design, 23 - 24 April 2019, pp.1133-1143

IX. Static Analysis of Layered Functionally Graded Square Plates

EVİRAN S., YILMAZ Y.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, pp.159-164

X. Finite Element Analysis of Temperature and Heat Conduction of Layered Functionally Graded Plates in Axial Direction Using Taguchi Method

EVİRAN S.

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.386-393

XI. Experimental and Numerical Buckling Analysis of Axially Layered Functionally Graded Short Beams

YILMAZ Y., ALKAN V., ÇALLIOĞLU H., EVİRAN S.

16th International Materials Symposium IMSP'2016, Denizli, Turkey, 12 October - 14 January 2016, pp.729-737

XII. Çok Katmanlı TiC, SiC ve Paslanmaz Bir Çelik Kirişte Eğilme Gerilmesinin Analitik ve Sonlu Elemanlar Yöntemiyle Analizi ve Belirlenmesi

MOTORCU A. R., EVİRAN S.

6. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 25 - 26 April 2013, pp.133-137