

## Doç. Dr. SAVAŞ EVRAN

### Kişisel Bilgiler

E-posta: sevrans@marmara.edu.tr

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

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-7512-5997

Yoksis Araştırmacı ID: 27168

### Eğitim Bilgileri

Doktora, Pamukkale Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Türkiye 2010 - 2015

Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Makine Eğitimi Anabilim Dalı, Türkiye 2007 - 2009

### Araştırma Alanları

Enerji, Makina Teorisi ve Dinamiği, Sonlu Elemanlar Yöntemi, Matematiksel Modelleme teknikleri

### Akademik İdari Deneyim

BAP Bilimsel Komisyon Üyesi, Marmara Üniversitesi, 2024 - Devam Ediyor

Sürdürülebilirlik Ofisi Koordinatörlüğü, Marmara Üniversitesi, 2024 - Devam Ediyor

Sabotek Yönetim Kurulu Üyesi, Marmara Üniversitesi, 2024 - Devam Ediyor

Dijital Dönüşüm ve Veri Yönetim Koordinatörlüğü, Marmara Üniversitesi, 2024 - Devam Ediyor

Müfredat Komisyon Üyesi, Marmara Üniversitesi, 2023 - Devam Ediyor

Rektör Danışmanı, Marmara Üniversitesi, 2023 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- CFD analysis of particle shape and Reynolds number on heat transfer characteristics of nanofluid in heated tube**  
Evrans S., Kurt M.  
Open Physics, cilt.22, sa.1, ss.20240046, 2024 (SCI-Expanded)
- 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, cilt.363, 2024 (SCI-Expanded)
- 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, cilt.18, ss.771-780, 2023 (SCI-Expanded)
- Numerical analysis of fluid type and flow mass rate on logarithmic temperature difference and heat transfer coefficient of double pipe heat exchanger**  
EVRANS 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, cilt.9, sa.3, ss.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, cilt.28, sa.7, ss.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, cilt.28, sa.7, ss.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, cilt.23, sa.4, ss.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, cilt.2013, 2013 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Numerical and Statistical Aerodynamic Performance Analysis of NACA0009 and NACA4415 Airfoils**  
Evrans S., Yıldır S. Z.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, cilt.27, sa.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, cilt.3, sa.1, ss.1-7, 2024 (Hakemli Dergi)
- III. **Effects of Forces and Material Types on Fatigue Analysis of Beams**  
EVRAN S.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, cilt.19, sa.4, ss.315-321, 2023 (Hakemli Dergi)
- IV. **Effect of material type, cutout shape and temperature on stress and deformation analyses of thin plates**  
EVRAN S.  
Journal of Materials and Manufacturing, cilt.1, sa.2, ss.10-16, 2022 (Hakemli Dergi)
- V. **Impacts of Valve Angle and Fluid Velocity on Pressure Drop in Pipe Flow**  
EVRAN S.  
International Journal of Engineering Science And Application, cilt.6, sa.3, ss.73-77, 2022 (Hakemli Dergi)
- VI. **Effects of Fiber Type and Number of Layers on Modal Analysis of Laminated Composite Plates**  
EVRAN S., YILMAZ Y.  
ALKU Journal of Science, cilt.4, sa.2, ss.63-70, 2022 (Hakemli Dergi)
- VII. **Eigenvalue Buckling Analysis of Beams with Different Width and Square Cutout**  
EVRAN S., Yıldır S. Z.  
Aksaray University Journal of Science and Engineering, cilt.6, sa.1, ss.71-78, 2022 (Hakemli Dergi)
- VIII. **Buckling Analysis of Cantilever Laminated Hybrid Composite Plates using Finite Element and Statistical Methods**  
EVRAN S.  
ALKU Journal of Science, cilt.3, sa.3, ss.1-8, 2021 (Hakemli Dergi)

- 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), cilt.4, sa.2, ss.17-24, 2020 (Hakemli Dergi)
- X. **Investigation of Effects of Fiber Orientation Angles on Deflection Behavior of Cantilever Laminated Composite Square Plates**  
EVRAN S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, cilt.23, sa.3, ss.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, cilt.2, sa.2, ss.129-136, 2020 (Hakemli Dergi)
- 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, cilt.2, sa.1, ss.1-7, 2020 (Hakemli Dergi)
- 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, cilt.2, sa.1, ss.54-60, 2020 (Hakemli Dergi)
- 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, cilt.21, sa.1, ss.173-181, 2020 (Hakemli Dergi)
- XV. **Finite element analysis of thermal stress of laminated composite plates using Taguchi method**  
EVRAN S.  
Manas Journal of Engineering, cilt.7, sa.2, ss.121-125, 2019 (Hakemli Dergi)
- XVI. **Thermal Buckling Analysis of Axially Layered Functionally Graded Thin Beams under Clamped-Clamped Boundary Conditions**  
EVRAN S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, cilt.22, sa.4, ss.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, cilt.23, sa.2, ss.190-195, 2019 (Hakemli Dergi)
- 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 UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.25, sa.1, ss.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, cilt.19, sa.4, ss.858-866, 2018 (Hakemli Dergi)
- XX. **Analysis of Angle of Twist of Axially Layered Functionally Graded Circular Hollow Shafts**  
EVRAN S.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.22, sa.Özel, ss.556-560, 2018 (Hakemli Dergi)
- XXI. **Critical Buckling Load Analysis of Layered Functionally Graded Shell Structures**  
EVRAN S.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, cilt.20, sa.59, ss.585-595, 2018 (Hakemli Dergi)
- XXII. **Natural Frequency Analysis of Layered Functionally Graded Beams**

EVREN S.

Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, cilt.19, sa.1, ss.83-94, 2018  
(Hakemli Dergi)

**XXIII. Bending Stress Analysis of Axially Layered Functionally Graded Beams**

EVREN S.

ENGINEERING SCIENCES, cilt.7, sa.1, ss.390-398, 2018 (Hakemli Dergi)

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

EVREN S.

ENGINEERING SCIENCES, cilt.7, sa.1, ss.399-406, 2018 (Hakemli Dergi)

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

EVREN S., YILMAZ Y.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, cilt.21, sa.5, ss.968-977, 2017 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

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

EVREN S., KURT M.

6. International New York Academic Research Congress, Türkiye, 12 Kasım 2022, ss.1-5

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

EVREN S., KURT M.

11. International Istanbul Scientific Research Congress, İstanbul, Türkiye, 15 Ekim 2022, ss.117-121

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

EVREN S., Yıldır S. Z.

International Technology Sciences and Design Symposium, Giresun, Türkiye, 02 Haziran 2022, ss.149-152

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

EVREN S.

5. International "Başkent" Congress on Physical, Social and Health Sciences, Türkiye, 11 - 12 Haziran 2022, ss.46-49

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

EVREN S., Yıldır S. Z.

8. Science Days, İstanbul, Türkiye, 09 Mayıs 2022, ss.64

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

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

8. International Istanbul Scientific Research Congress, İstanbul, Türkiye, 12 Mart 2022, ss.697-703

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

EVREN S., KURT M.

3. International Halich Congress on Multidisciplinary Scientific Research, İstanbul, Türkiye, 12 Mart 2022, ss.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**

EVREN S.

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

**IX. Static Analysis of Layered Functionally Graded Square Plates**

EVREN S., YILMAZ Y.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Türkiye, 22 - 24 Mart 2018, ss.159-164

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

EVREN S.

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Türkiye, 22 - 23 Kasım 2018, ss.386-393

- XI. **Experimental and Numerical Buckling Analysis of Axially Layered Functionally Graded Short Beams**  
YILMAZ Y., ALKAN V., ÇALLIOĞLU H., EVRAN S.  
16th International Materials Symposium IMSP'2016, Denizli, Türkiye, 12 Ekim - 14 Ocak 2016, ss.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., EVRAN S.  
6. Mühendislik ve Teknoloji Sempozyumu, Ankara, Türkiye, 25 - 26 Nisan 2013, ss.133-137