

## Res. Asst. PhD SEFA YILDIRIM

### Personal Information

**Office Phone:** [+90 322 338 6084](tel:+903223386084) Extension: 2727

**Fax Phone:** [+90 322 338 6126](tel:+903223386126)

**Email:** [syildirim@cu.edu.tr](mailto:syildirim@cu.edu.tr)

**Web:** <https://avesis.cu.edu.tr//syildirim>

**Address:** Çukurova Üniversitesi Makine Mühendisliği Bölümü

### Education Information

Doctorate, Cukurova University, Fen Bilimleri, Makine Mühendisliği, Turkey 2012 - 2018

Postgraduate, Cukurova University, Fen Bilimleri, Makine Mühendisliği, Turkey 2010 - 2012

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Mechanics of Composite Structures Using Matlab GUI, Cukurova University, Makine Mühendisliği, Mekanik, 2012

### Research Areas

Mechanical Engineering, Mechanical, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Cukurova University, Ceyhan Mühendislik Fakültesi, Makine Mühendisliği, 2011 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Artificial intelligence techniques for the vibration, noise, and emission characteristics of a hydrogen-enriched diesel engine**  
YILDIRIM S., TOSUN E., ÇALIK A., ULUOCAK İ., AVŞAR E.  
ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.41, no.18, pp.2194-2206, 2019 (SCI-Expanded)
- II. **Radial vibration analysis of heterogeneous and non-uniform disks via complementary functions method**  
YILDIRIM S., TÜTÜNCÜ N.  
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, vol.53, no.5, pp.332-337, 2018 (SCI-Expanded)

- III. **On the inertio-elastic instability of variable-thickness functionally-graded disks**  
YILDIRIM S., TÜTÜNCÜ N.  
MECHANICS RESEARCH COMMUNICATIONS, vol.91, pp.1-6, 2018 (SCI-Expanded)
- IV. **Axisymmetric plane vibration analysis of polar-anisotropic disks**  
YILDIRIM S., TÜTÜNCÜ N.  
COMPOSITE STRUCTURES, vol.194, pp.509-515, 2018 (SCI-Expanded)
- V. **Estimation of crack propagation in polymer electrolyte membrane fuel cell under vibration conditions**  
Calik A., YILDIRIM S., TOSUN E.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23347-23351, 2017 (SCI-Expanded)
- VI. **Evaluation of vibration characteristics of a hydroxyl (HHO) gas generator installed diesel engine fuelled with different diesel-biodiesel blends**  
Uludamar E., TOSUN E., Tuccar G., YILDIZHAN Ş., Calik A., YILDIRIM S., SERİN H., ÖZCANLI M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23352-23360, 2017 (SCI-Expanded)
- VII. **Effect of adherend recessing on bi-adhesively bonded single-lap joints with spew fillet**  
Calik A., YILDIRIM S.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.42, no.3, pp.317-325, 2017 (SCI-Expanded)
- VIII. **An investigation on the effect of parallel slot in bi-adhesive single lap joints with spew fillet**  
ÇALIK A., YILDIRIM S.  
JOURNAL OF ENGINEERING RESEARCH, vol.3, no.4, pp.95-110, 2015 (SCI-Expanded)
- IX. **Elastic and viscoelastic response of heterogeneous annular structures under arbitrary transient pressure**  
TEMEL B., YILDIRIM S., TÜTÜNCÜ N.  
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.89, pp.78-83, 2014 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**  
TÜCCAR G., YILDIRIM S., ÇALIK A., ULUDAMAR E., SERİN H., ÖZCANLI M., AYDIN K.  
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 October 2017
- II. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**  
TÜCCAR G., YILDIRIM S., ÇALIK A., Uludamar E., SERİN H., ÖZCANLI M., AYDIN K.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1321
- III. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**  
Tüccar G., YILDIRIM S., ÇALIK A., ULUDAMAR E., SERİN H., ÖZCANLI M., AYDIN K.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1321
- IV. **Remaining Useful Life Estimation from Fuel Cell Data Using Support Vector Regression Models**  
AVŞAR E., YILDIRIM S., Çalık A.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1563
- V. **Rotational Instability of Polar Orthotropic Nonuniform Disks**  
YILDIRIM S., TÜTÜNCÜ N.  
8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Czech Republic, 22 - 25 July 2017, pp.586-590
- VI. **Evaluation of vibration characteristics of a hydroxyl (HHO) gas generator installed diesel engine fuelled with different diesel-biodiesel blends**

Uludamar E., TOSUN E., Tüccar G., YILDIZHAN Ş., Çalık A., YILDIRIM S., SERİN H., ÖZCANLI M.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.2005

- VII. **Keyfi Dinamik İç Basınç Altındaki Heterojen Dairesel Yapıların Elastik ve Viskoelastik Davranışları**  
**TRABZON TÜRKİYE 24 28 Ağustos 2015 ss 1 10**  
TEMEL B., YILDIRIM S., TÜTÜNCÜ N.  
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.1-10
- VIII. **Keyfi Dinamik İç Basınç Altındaki Heterojen Dairesel Yapıların Elastik ve Viskoelastik Davranışları**  
Temel B., Yıldırım S., Tütüncü N.  
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.1-10
- IX. **Analysis of Composite Plates by KomPro**  
YILDIRIM S., Tütüncü N.  
(IJAS) International Conference for Academic Dicipines, Viyana, Austria, 6 - 10 April 2014, pp.1-2

## Supported Projects

TÜTÜNCÜ N., YILDIRIM S., Project Supported by Higher Education Institutions, FDM Fonksiyonel Derecelenmiş Malzeme Dönen Sabit ve Değişken Kalınlıklı Disklerin İnstabilite Analizi, 2017 - 2018

## Metrics

Publication: 19

Citation (WoS): 91

Citation (Scopus): 107

H-Index (WoS): 4

H-Index (Scopus): 4