# Asst. Prof. Özge Özdemir

## Personal Information

**Fax Phone:** +90 212 285 3139
**Email:** ozdemirozg@itu.edu.tr
**Address:** İstanbul Teknik Üniversitesi, Ayazağa Kampüsü, Uçak ve Uzay Bilimleri Fakültesi, 34469, Maslak, İstanbul

**International Researcher IDs**
ORCID: 0000-0002-4755-2094
Publons / Web Of Science ResearcherID: W-8610-2019
ScopusID: 18635488600
Yoksis Researcher ID: 151905

## Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Aeronautical and Astronautical Engineering (Dr), Turkey 2006 - 2013
Doctorate, Georgia Institute of Technology, School Of Aerospace Engineering, United States Of America 2009 - 2009
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Aeronautical and Astronautical Engineering (YL), Turkey 2004 - 2006
Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, Turkey 2000 - 2004

## Foreign Languages

English

## Dissertations

Doctorate, Dynamic and aeroelastic analysis of a helicopter blade with actively controlled trailing edge flap in forward flight, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Uçak Ve Uzay Bilimleri Mühendisliği (Dr), 2012
Postgraduate, Bir helikopter palinin dinamik ve aeroelastik analizi, İstanbul Teknik Üniversitesi, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, 2006

## Research Areas

Mathematics, Differential Equations, Optimization, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, 2018 - Continues
Assistant Professor, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, 2013 - 2018

Research Assistant, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, 2006 - 2013

## Courses

Helicopter Theory, Undergraduate, 2022 - 2023
Strength of Materials 1, Undergraduate, 2016 - 2017

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

I. **Vibration and Buckling Analyses of Rotating Axially Functionally Graded Nonuniform Beams**
Özdemir Ö.
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, vol.10, no.4, pp.1381-1397, 2022 (SCI-Expanded)

II. **FINITE ELEMENT FORMULATION AND FREE VIBRATION ANALYSES OF ROTATING, FUNCTIONALLY GRADED BLADES**
Karahan E. D., Özdemir Ö.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.59, no.1, pp.3-15, 2021 (SCI-Expanded)

III. **APPLICATION OF THE DIFFERENTIAL TRANSFORM METHOD TO THE FREE VIBRATION ANALYSIS OF FUNCTIONALLY GRADED TIMOSHENKO BEAMS**
Özdemir Ö.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.54, no.4, pp.1205-1217, 2016 (SCI-Expanded)

IV. **Energy Derivation and Extension-Flapwise Bending Vibration Analysis of a Rotating Piezolaminated Composite Timoshenko Beam**
Özdemir Ö., Kaya M. O.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.21, no.6, pp.477-489, 2014 (SCI-Expanded)

V. **Energy expressions and free vibration analysis of a rotating Timoshenko beam featuring bending-bending-torsion coupling**
Ozgumus O. O., KAYA M. O.
ARCHIVE OF APPLIED MECHANICS, vol.83, no.1, pp.97-108, 2013 (SCI-Expanded)

VI. **Vibration analysis of a rotating tapered Timoshenko beam using DTM**
Ozgumus O. O., Kaya M. O.
MECCANICA, vol.45, no.1, pp.33-42, 2010 (SCI-Expanded)

VII. **Flapwise bending vibration analysis of a rotating double-tapered Timoshenko beam**
Ozgumus O. O., Kaya M. O.
ARCHIVE OF APPLIED MECHANICS, vol.78, no.5, pp.379-392, 2008 (SCI-Expanded)

VIII. **Energy expressions and free vibration analysis of a rotating double tapered Timoshenko beam featuring bending-torsion coupling**
Ozgumus O. O., KAYA M. O.
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, vol.45, pp.562-586, 2007 (SCI-Expanded)

IX. **Formulation for flutter and vibration analysis of a hingeless helicopter blade in hover: Part I**
Ozgumus O. O., KAYA M. O.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.79, no.2, pp.177-183, 2007 (SCI-Expanded)

X. **Formulation for flutter and vibration analysis of a hingeless helicopter blade in hover: part II. Results of flutter stability and vibration analysis of a hingeless helicopter blade in hover**
Ozgumus O. O., KAYA M. O.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.79, no.3, pp.231-237, 2007 (SCI-Expanded)

XI. **Flapwise bending vibration analysis of double tapered rotating Euler-Bernoulli beam by using the differential transform method**
Ozgumus O. O., KAYA M. O.

MECCANICA, vol.41, no.6, pp.661-670, 2006 (SCI-Expanded)

## Articles Published in Other Journals

I. **Vibration and stability analyses of functionally graded beams**
Kilic B., Özdemir Ö.
ARCHIVE OF MECHANICAL ENGINEERING, vol.68, no.1, pp.93-113, 2021 (ESCI)

II. **VIBRATION ANALYSIS OF ROTATING TIMOSHENKO BEAMS WITH DIFFERENT MATERIAL DISTRIBUTION PROPERTIES**
ÖZDEMİR Ö.
Selçuk Üniversitesi Mühendislik Bilim ve Teknoloji Dergisi, vol.7, no.2, pp.272-286, 2019 (Peer-Reviewed Journal)

## Metrics

Publication: 70
Citation (WoS): 241
Citation (Scopus): 344
H-Index (WoS): 6
H-Index (Scopus): 8

## Non Academic Experience

Georgia Institute of Technology