

Prof. VEYSEL ÖZDEMİR

Personal Information

Email: vozdemir@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/vozdemir>

International Researcher IDs

ScholarID: qImQUsgAAAAJ

ORCID: 0000-0001-9806-9599

Publons / Web Of Science ResearcherID: T-6085-2018

ScopusID: 7004235251

Yoksis Researcher ID: 102605

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1994 - 1998

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1990 - 1993

Undergraduate, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1982 - 1988

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Raspberry Pi ve Arduino , FESTO, 2018

Vocational Training, Robotik Programlama , FESTO, 2018

Vocational Training, Autodesk Fusion 360 Eğitimi, AUTODESK, 2016

Foreign Language, Liverpool Hope University Centre For English Language Studies Certificate, Liverpool Hope University , 2004

Dissertations

Doctorate, Uzay araçlarında kullanılacak termiyonik nükleer güç reaktörünün kontrol mekanizmasının tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 1998

Postgraduate, SÜREKLİ ŞARTLARDA SU/HAVA TİPİ ÇAPRAZ AKIŞLI ISI DEĞİŞTİRİCİLERİNİN TEORİK VE DENEYSEL OLARAK İNCELENMESİ, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1993

Research Areas

Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2019 - Continues
Associate Professor, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği Bölümü, 2013 - 2019
Associate Professor, Northern Virginia Community College, Department of Air Conditioning and Refrigeration , 2014 - 2014
Associate Professor, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, 2013 - 2013
Assistant Professor, Gazi University, Atatürk Meslek Yüksekokulu, Makine Ve Metal Teknolojileri Bölümü, 2007 - 2013
Assistant Professor, Georgia State University, Middle East Institute, 2010 - 2010
Assistant Professor, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2003 - 2007
Assistant Professor, Liverpool Hope, 2004 - 2004
Assistant Professor, Aksaray University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1999 - 2003
Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1990 - 1999

Academic and Administrative Experience

Director of Vocational School, Gazi University, Uzaktan Eğitim Meslek Yüksekokulu, 2016 - 2020
Director of Vocational School, Gazi University, Gazi Meslek Yüksekokulu, 2016 - 2020
Director of Vocational School, Gazi University, Atatürk Meslek Yüksekokulu, 2016 - 2020
Director of Vocational School, Gazi University, Ostim Meslek Yüksekokulu, 2016 - 2020
Director of Vocational School, Gazi University, Teknik Bilimler Meslek Yüksekokulu, 2016 - 2020
Manager of Research and Application Center, Gazi University, Teknoloji Transferi Uygulama ve Araştırma Merkezi, 2016 - 2017
Gazi University, Atatürk Meslek Yüksekokulu, 2012 - 2014
Hitit University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2005 - 2006
Aksaray University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1999 - 2002

Courses

İLERİ EKOLOJİK ENDÜSTRİYEL TASARIM, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Thermodynamics, Undergraduate, 2022 - 2023
Fluid Mechanics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Ecological Design, Undergraduate, 2021 - 2022
Heat and Mass Transfer, Undergraduate, 2022 - 2023
Design Project Management, Undergraduate, 2021 - 2022
Bilgisayar Destekli Tasarım III, Undergraduate, 2020 - 2021
Tasarım Mühendisliğine Giriş, Undergraduate, 2015 - 2016
Tasarım Kültürü, Undergraduate, 2015 - 2016
Mühendislikte Çizim ve Tasarım, Undergraduate, 2015 - 2016
Sistem Analizi ve Tasarımı, Associate Degree, 2012 - 2013
Hidrolik ve Pnömatik, Associate Degree, 2012 - 2013
Isı Değiştiricisi Tasarımı, Undergraduate, 2005 - 2006
Proses Isı Transferi, Undergraduate, 2006 - 2007
Fabrika Organizasyonu, Undergraduate, 2005 - 2006
Akışkanlar Mekaniği, Undergraduate, 2005 - 2006, 2004 - 2005
İmal usulleri, Undergraduate, 2004 - 2005
Termodinamik II, Undergraduate, 2003 - 2004
Isı Transferi, Undergraduate, 2004 - 2005
Termodinamik I, Undergraduate, 2003 - 2004
Makine Tasarımı II, Undergraduate, 2002 - 2003

Makine Tasarımı I, Undergraduate, 2002 - 2003
Dinamik II, Undergraduate, 2001 - 2002
Makine Dinamiği, Undergraduate, 2001 - 2002
Makine Elemanları II, Undergraduate, 2001 - 2002
Makine Elemanları I, Undergraduate, 2001 - 2002
Dinamik I, Undergraduate, 2001 - 2002

Advising Theses

Özdemir V., Use of biomimetic based lattice structures in topology optimization, Postgraduate, N.Zeynep(Student), 2022
Özdemir V., OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM PROPOSAL FOR PUBLIC INSTITUTIONS IN THE PERSPECTIVE OF THE OCCUPATIONAL HEALTH AND SAFETY LAW (ACT. NO. 6331), Doctorate, Ö.AKANER(Student), 2022
Özdemir V., AN ARTIFICIAL NEURAL NETWORK BASED MODEL PROPOSAL FOR THE DETERMINATION OF HAZARD CLASSES IN ECONOMIC ACTIVITIES , Doctorate, M.AKANER(Student), 2022
ÖZDEMİR V., Aerodynamic Rim Design With Biomimetic Approach And A Practice, Postgraduate, M.TAHİR(Student), 2020
ÖZDEMİR V., Design Of Acoustic Release System, Postgraduate, E.HELVACILAR(Student), 2019
ÖZDEMİR V., Bus Stop Design Within The Scope Of Universal Design Approach, Postgraduate, S.DEMİR(Student), 2019
ÖZDEMİR V., Investigated for used sprinkler in fire fighting systems and numerical modeling, Postgraduate, Y.YASİN(Student), 2013
ÖZDEMİR V., AN INVESTIGATION ON EJECTOR EFFECTS OF THE FLOW CHARACTERISTICS, Postgraduate, H.ARTAR(Student), 2010
ÖZDEMİR V., TRAFFIC\`S FIELD OF VIEW OF THE DRIVER INVESTIGATION AND IMPROVEMENT, Postgraduate, M.KILIÇ(Student), 2010
ÖZDEMİR V., Avrupa Birliği'ne giriş sürecinde trafik kazalarının azaltılması için Türkiye'nin geliştireceği ulaşım ve enerji politikaları, Postgraduate, A.AYDOĞDU(Student), 2006
ÖZDEMİR V., Jandarma Genel Komutanlığı personelinin karıştığı özel araç kazaları, Postgraduate, H.ÇETİN(Student), 2004

Jury Memberships

Post Graduate, Post Graduate, Gazi Üniversitesi, February, 2024
Post Graduate, Post Graduate, Ankara Yıldırım Beyazıt Üniversitesi, February, 2024
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, June, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Additive manufacturing of carbon fiber reinforced plastic composites by fused deposition modelling: effect of fiber content and process parameters on mechanical properties**
SEZER H. K., EREN O., BÖRKLÜ H. R., ÖZDEMİR V.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.664-674, 2019 (SCI-Expanded)
- II. **Design and implementation of real-time monitoring and control system supported with IOS/Android application for industrial furnaces**
YILMAZ C., YILMAZ E. N., Isik M. F., Usalan M. A. S., SÖNMEZ Y., ÖZDEMİR V.

IEEJ TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING, vol.13, no.9, pp.1236-1244, 2018 (SCI-Expanded)

- III. **Developing of dual junction GaInP/GaAs solar cell devices: effects of different metal contacts**
Ataser T., Akn Sönmez N., Özen Y., Özdemir V., Zeybek O., Özçelik S.
OPTICAL AND QUANTUM ELECTRONICS, vol.50, no.7, 2018 (SCI-Expanded)
- IV. **The effect of martensitic phase transition from cubic to tetragonal on the physical properties of V3Si superconductor**
Tutuncu H. M., Uzunok H. Y., Srivastava G. P., ÖZDEMİR V., UĞUR G.
INTERMETALLICS, vol.96, pp.25-32, 2018 (SCI-Expanded)
- V. **Precision Irrigation System (PIS) Using Sensor Network Technology Integrated with IOS/Android Application**
IŞIK M. F., SÖNMEZ Y., YILMAZ C., ÖZDEMİR V., YILMAZ E. N.
APPLIED SCIENCES-BASEL, vol.7, no.9, 2017 (SCI-Expanded)
- VI. **A Future Projection of Turkey's Energy Intensity**
ÖZDEMİR V.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.9, no.1, pp.1-8, 2014 (SCI-Expanded)
- VII. **DETERMINATION OF TURKEY'S CARBONIZATION INDEX BASED ON BASIC ENERGY INDICATORS BY ARTIFICIAL NEURAL NETWORKS**
ÖZDEMİR V.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.1, pp.9-15, 2011 (SCI-Expanded)
- VIII. **Determination of Turkey's carbonization index based on basic energy indicators by artificial neural networks, Türkiye'nin karbonizasyon indeksinin temel enerji göstergelerine bağlı olarak yapay sinir ağları ile tanımlanması**
Özdemir V.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, pp.9-11, 2011 (SCI-Expanded)
- IX. **Sizing problem for a cross flow heat exchanger with wing-type vortex generator**
KOTÇIOĞLU İ., ÇALIŞKAN S., ÖZDEMİR V., BAŞKAYA Ş.
HEAT AND MASS TRANSFER, vol.45, no.10, pp.1239-1246, 2009 (SCI-Expanded)
- X. **Temperature prediction in a coal fired boiler with a fixed bed by fuzzy logic based on numerical solution**
Biyikoglu A., Akcayol M. A., ÖZDEMİR V., Sivrioglu M.
ENERGY CONVERSION AND MANAGEMENT, vol.46, no.1, pp.151-166, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sectorial Investigation of Life Cycle Sustainability Assessment in the Context of Case Studies**
DEMİR S., ÖZDEMİR V.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.3, pp.684-701, 2024 (Peer-Reviewed Journal)
- II. **Design and analysis of four cylinder diesel engine balancer**
Gulseven H. C., ÖZDEMİR V.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.27, pp.523-531, 2024 (ESCI)
- III. **Design for Additive Manufacturing with Biomimetic Approaches**
CENGİZ BULUT N. Z., ÖZDEMİR V.
Selcuk University Journal of Engineering Sciences, vol.21, no.2, pp.86-96, 2022 (Peer-Reviewed Journal)
- IV. **Proposal for an Occupational Health and Safety Management System Model for Public Institutions**
Özdemir V., Akaner Ö.
Çalışma İlişkileri Dergisi, vol.13, no.1, pp.41-59, 2022 (Peer-Reviewed Journal)

- V. **A Case Study for Determining the Hazard Classes of Economical Activities Using Artificial Intelligence**
Özdemir V., Akaner M.
Çalışma İlişkileri Dergisi, vol.13, no.1, pp.123-139, 2022 (Peer-Reviewed Journal)
- VI. **Plastik Bir Su Isıtıcının Eko-Tasarım Stratejisine Göre Yaşam Döngüsü Analizi**
TOP N., ÖZDEMİR V., ŞAHİN İ.
Selçuk-Teknik Dergisi, vol.19, no.3, pp.104-119, 2020 (Peer-Reviewed Journal)
- VII. **Biyomimetik Yaklaşımın Jant Tasarımı Üzerinde Uygulanması**
Demir M. T., ÖZDEMİR V.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.8, no.4, pp.884-899, 2020 (Peer-Reviewed Journal)
- VIII. **The design of fatigue strength machine being one of the methods for determination the mechanical properties of the materials used in the industry**
Şık A., Atak A., Yavuz C., Özdemir V.
JOURNAL OF BIOMEDICAL SCIENCE AND ENGINEERING, vol.5, no.2, pp.79-82, 2018 (Peer-Reviewed Journal)
- IX. **Parameters Estimation of Linear, Quadratic and Exponential Models for Energy Demand Forecasting by Using ABC Algorithm**
ÖZDEN S., SÖNMEZ Y., MAVİ A., ÖZDEMİR V.
International Journal of Electrical, Electronics and Data Communication, vol.6, no.6, pp.12-15, 2018 (Peer-Reviewed Journal)
- X. **Thermo-Mechanical modelling of friction stir spot welding and numerical solution with the finite element method**
Atak A., Şık A., Özdemir V.
International Journal of Engineering and Applied Sciences (IJEAS), vol.5, no.2, pp.70-75, 2018 (Peer-Reviewed Journal)
- XI. **Thermo-Mechanical Modeling of Friction Stir Spot Welding and Numerical Solution With The Finite Element Method**
Atak A., Şık A., Özdemir V.
International Journal of Engineering and Applied Sciences, vol.5, no.2, pp.70-75, 2018 (Peer-Reviewed Journal)
- XII. **Topolojik nesnelerin FDM yöntemiyle üretimi”, International Journal of 3D Printing Technologies and Digital Industry**
Demir S., SEZER H. K., ÖZDEMİR V.
International Journal of 3D Printing Technologies and Digital Industry, vol.2, pp.76-87, 2018 (Peer-Reviewed Journal)
- XIII. **A Novel Conceptual Design of a Stairlift for Elderly and Disabled People**
BÖRKLÜ H. R., Bozbuğa F., SEZER H. K., ÖZDEMİR V.
Gazi University Journal of Science Part A: Engineering And Innovation, vol.5, no.1, pp.17-29, 2018 (Peer-Reviewed Journal)
- XIV. **The Design of Fatigue Strength Machine Being One of The Methods For Determining The Mechanical Properties Of The Materials Used In The Industry**
Şık A., Atak A., Yavuz C., Özdemir V.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.5, no.2, pp.79-88, 2018 (Peer-Reviewed Journal)
- XV. **Conceptual Design of a New Buoy**
BÖRKLÜ H. R., HELVACILAR E., ÖZDEMİR V.
Gazi University Journal of Science Part A, vol.4, no.4, pp.125-143, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **AHŞAP ESASLI 3B YAZICI FİLAMANTLARININ SÜRDÜRÜLEBİLİRLİK AÇISINDAN İNCELENMESİ**
CENGİZ BULUT N. Z., ÇINAR H., ÖZDEMİR V.

4. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, Antalya, Turkey, 30 November - 03 December 2023

II. Additive Manufacturing in Fashion Design

CENGİZ BULUT N. Z., ÖZDEMİR V.

6 th INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY – 3D-PTC2022, Bucuresti, Romania, 22 - 23 November 2022

III. Application of Biomimetic Based Lattice Structures to Topological Optimization

CENGİZ BULUT N. Z., ÖZDEMİR V.

6 th INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY – 3D-PTC2022, Bucuresti, Romania, 22 - 23 November 2022

IV. Universal Design Implementations in Turkey

DEMİR S., ÖZDEMİR V.

3'xxrd International Symposium on Industrial Design Engineering (ISIDE 2018), 22 - 24 November 2018, pp.412-418

V. Asetalin Patlama Etkilerinin Modellenmesi

ÇETİNYOKUŞ S., ÖZDEMİR V.

ULUSLARARASI KATILIMLI VII. POLİMER BİLİM VE TEKNOLOJİ KONGRESİ, 9 - 12 September 2018, pp.423

VI. Sürtünme karıştırma nokta kaynağı (SKNK) yöntemiyle otomotiv sektöründe kullanılan Magnezyum alaşımlarının birleştirilmesi [Joining of magnesium alloys with friction stir spot welding (FSSW) method used in automotive sector]

ATAK A., ŞIK A., ÖZDEMİR V.

9th International Automotive Technologies Congress OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.1225-1234

VII. Sürtünme Karıştırma Nokta Kaynağı Yöntemi İle Otomotiv Sektöründe Kullanılan Magnezyum Alaşımlarının Birleştirilmesi

ATAK A., ŞIK A., ÖZDEMİR V.

Sürtünme Karıştırma Nokta Kaynağı Yöntemi İle Otomotiv Sektöründe Kullanılan Magnezyum Alaşımlarının Birleştirilmesi, Bursa, Turkey, 7 - 08 May 2018

VIII. Topolojik Nesnelerin FDM Yöntemiyle Üretimi

DEMİR S., SEZER H. K., ÖZDEMİR V.

3'rd International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Antalya, Turkey, 19 April 2018 - 21 April 2019

IX. Yeni bir elektrikli tıraş makinesinin kavramsal tasarımı

BÖRKLÜ H. R., AVCI G., ÖZDEMİR V.

International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Turkey, 12 - 14 October 2017, pp.256-262

X. 33 modeli

ÖZDEMİR V.

2. Uluslararası Yükseköğretimde Mesleki Eğitim ve Öğretim Sempozyumu, Ankara, Turkey, 12 - 14 October 2017

XI. Multi-Objective Optimization Using Grey Relational Analysis in Electrical Discharge Drilling of AISI 304 Stainless Steel

Meral G., Sarıkaya M., Yılmaz V., Özdemir V., Ayhan E.

IV. International Multidisciplinary Congress of Eurasian, Rome, Italy, 23 - 25 August 2017

Supported Projects

Özdemir V., Özerkan H. B., Genç A., Project Supported by Higher Education Institutions, Z-NC Elektro erezyon tezgahı tasarımı ve üretimi, 2019 - 2019

ÖZDEMİR V., Project Supported by Other Private Institutions, CNC Router Tasarım ve Üretimi, 2019 - 2019

Kaya S., Muhammet S. M., Kondolot Solak E., Özdemir V., Project Supported by Higher Education Institutions, Preparation

and characterization of polymer membranes that can be used in innovative membrane technology, 2018 - 2019
Kaya S., Kondolot Solak E., Muhammet S. M., Özdemir V., Project Supported by Higher Education Institutions, Preparation and in-vitro release of antibacterial dressing materials using biocompatible polymers, 2018 - 2019
ÖZDEMİR V., KONDOLOT SOLAK E., MUHAMMET S. M., Project Supported by Other Official Institutions, Biyouyumlu polimerler kullanılarak antibakteriyel yara örtü malzemelerinin hazırlanması ve in-vitro salımı, 2018 - 2019
Şık A., Özdemir V., Yavuz C., Project Supported by Higher Education Institutions, Endüstride Kullanılan Malzemelerin Mekanik Özelliklerini Belirleme Yöntemlerinden Yorulma Dayanımı Makinası Tasarımı, 2016 - 2019
Sözen A., Özdemir V., Industrial Thesis Project, Ev Tipi Alternatif Enerji Kaynaklı Ejektörlü-Difüzyonlu Absorpsiyon Soğutma Sistemi Tasarım Ve İmali, 2012 - 2014
ÖZDEMİR V., Project Supported by Higher Education Institutions, Tornalamada AISI1040 ve Alüminyum Metallerinin Değişik İşleme Parametrelerinde İşlenmesi Esnasında Oluşan Sıcaklıkların Takım Aşınmasına Etkilerinin Deneysel Olarak Araştırılması, 2009 - 2011

Activities in Scientific Journals

Gazi University Journal of Science Part A: Engineering and Innovation, First Editor, 2016 - 2020

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Hitit University, Turkey, June 2023
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, January 2023

Metrics

Publication: 37
Citation (WoS): 64
Citation (Scopus): 81
H-Index (WoS): 8
H-Index (Scopus): 8

Visual Activities

Özdemir V., Gazi University Journal of Science Part A: Engineering and Innovation, Journal Publishing, 2016 - 2020