

## Assoc. Prof. MEVLÜT ARSLAN

### Personal Information

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### Education Information

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YL) (Tezli), Turkey 1995 - 1998

### Dissertations

Doctorate, Su ile ısı enerji depolanmasında sıcaklık tabakalaşmasının sayısal ve deneysel olarak araştırılması, İstanbul Technical University, Fen Bilimleri Enstitüsü, Enerji (Dr), 2006

Postgraduate, Laminar akış durumunda kesintili sıcaklık fonksiyonuna göre değişen levha sıcaklıklarının karışık konveksiyona etkisinin iki boyutlu eğik kanalda sayısal olarak incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YL) (Tezli), 1998

### Research Areas

Mechanical Engineering, Thermodynamics, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2017 - Continues

Assistant Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2007 - 2018

Research Assistant, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2006 - 2007

Research Assistant, Erciyes University, Yozgat Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Pr., 1995 - 2006

Research Assistant, University of Nevada, Reno, Engineering Faculty, Mechanical Engineering, 1998 - 1998

### Academic and Administrative Experience

Yozgat Bozok University, 2015 - Continues

Director of Vocational School, Yozgat Bozok University, 2015 - 2021

Mevlana Exchange Program Coordinator, Yozgat Bozok University, 2013 - 2015

Yozgat Bozok University, 2008 - 2014

Yozgat Bozok University, 2008 - 2013

### Courses

MM 415 MAK. MÜH. UYG. PROJE-I (ÖD), Undergraduate, 2013 - 2014, 2014 - 2015

MM 204 TERMODİNAMİK-II, Undergraduate, 2013 - 2014, 2014 - 2015

MM 418 BİTİRME PROJESİ (ÖD), Undergraduate, 2013 - 2014, 2014 - 2015

MM 518 VİSKOZ AKIŞ, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 544 BOYUT ANALİZİ VEMODELLEME, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 466 GÜNEŞ ENERJİSİ UYGULAMALARI (ÖD), Undergraduate, 2013 - 2014, 2014 - 2015  
MM 203 TERMODİNAMİK-I, Undergraduate, 2013 - 2014, 2014 - 2015  
MM 416 MAK. MÜH. UYG. PROJE-II (ÖD), Undergraduate, 2013 - 2014, 2014 - 2015  
MM 398 ENERJİ YÖNETİMİ VE EKONOMİSİ, Undergraduate, 2013 - 2014, 2014 - 2015  
MM 513 İLERİ ISI VE KÜTLE GEÇİŞİ, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 457 İKLİMLENDİRME TEKNİĞİ, Undergraduate, 2013 - 2014, 2014 - 2015  
MM 598 TEZ ÇALIŞMASI-II, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 597 TEZ ÇALIŞMASI-I, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 8XX UZMANLIK ALAN DERSİ-I, Postgraduate, 2013 - 2014, 2014 - 2015  
MM 544 BOYUT ANALİZİ VEMODELLEME (TEKRAR), Postgraduate, 2013 - 2014, 2014 - 2015  
MM 418 BİTİRME PROJESİ (TEKRAR) (ÖD), Undergraduate, 2013 - 2014, 2014 - 2015  
MM 8XX UZMANLIK ALAN DERSİ-II, Postgraduate, 2013 - 2014, 2014 - 2015

## Advising Theses

ARSLAN M., Kabin tipli kurutma sisteminde kuruma kinetiğinin araştırılması ve sistemin enerji-ekserji analizinin yapılması, Postgraduate, R.DEMİR(Student), 2019  
ARSLAN M., Farklı amaçlar için kullanılan binaların yaşam döngülerinin enerji ve ekserji analizi yönünden incelenmesi, Postgraduate, B.YALÇIN(Student), 2019  
ARSLAN M., Yozgat ilinde bulunan bir ges sisteminin sayısal ve deneysel analizi, Postgraduate, M.YILDIZ(Student), 2019  
ARSLAN M., Bir alışveriş merkezi ısıtma ve soğutma sistemlerinin enerji ve ekserji analizi, Postgraduate, Z.SEVER(Student), 2018  
ARSLAN M., ERYILMAZ T., Biyodizel-dizel yakıt karışımlarına farklı alkol ilavelerinin dizel motorlarda performans, yanma ve emisyon karakteristiklerine etkilerinin incelenmesi, Doctorate, M.KADİR(Student), 2017

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

- I. **Effect of phase change material on thermal stratification of solar hot water tank with a mantle: A numerical analysis**  
İZGİ B., ARSLAN M.  
Journal of Energy Storage, vol.52, 2022 (Journal Indexed in SCI)
- II. **The industrial-grade hemp (Cannabis sativa L.) seed oil biodiesel application in a diesel engine: combustion, harmful pollutants, and performance characteristics**  
Yılbaşı Z., Yesilyurt M. K. , Yaman H., Arslan M.  
Science and Technology for Energy Transition, vol.77, no.15, pp.1-36, 2022 (Journal Indexed in SCI)
- III. **The production of methyl ester from industrial grade hemp (Cannabis sativa L.) seed oil: a perspective of Turkey — the optimization study using the Taguchi method**  
Yılbaşı Z., Yeşilyurt M. K. , Arslan M.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-21, 2021 (Journal Indexed in SCI Expanded)
- IV. **Numerical analysis of solidification of PCM in a closed vertical cylinder for thermal energy storage applications**  
İZGİ B., ARSLAN M.  
HEAT AND MASS TRANSFER, vol.56, no.10, pp.2909-2922, 2020 (Journal Indexed in SCI)
- V. **Investigation on the structural effects of the addition of alcohols having various chain lengths into the vegetable oil-biodiesel-diesel fuel blends: An attempt for improving the performance, combustion, and exhaust emission characteristics of a compression ignition engine**  
YEŞİLYURT M. K. , Aydın M., YILBAŞI Z., ARSLAN M.

FUEL, vol.269, 2020 (Journal Indexed in SCI)

- VI. **Application of response surface methodology for the optimization of biodiesel production from yellow mustard (*Sinapis alba* L.) seed oil**  
YEŞİLYURT M. K. , Arslan M., ERYILMAZ T.  
International Journal of Green Energy, vol.16, no.1, pp.60-71, 2019 (Journal Indexed in SCI Expanded)
- VII. **Analysis of the fuel injection pressure effects on energy and exergy efficiencies of a diesel engine operating with biodiesel**  
YEŞİLYURT M. K. , Arslan M.  
Biofuels, vol.10, no.5, pp.643-655, 2019 (Journal Indexed in SCI Expanded)
- VIII. **A comparative analysis of the engine performance, exhaust emissions and combustion behaviors of a compression ignition engine fuelled with biodiesel/diesel/1-butanol (C4 alcohol) and biodiesel/diesel/n-pentanol (C5 alcohol) fuel blends**  
YEŞİLYURT M. K. , ERYILMAZ T., ARSLAN M.  
ENERGY, vol.165, pp.1332-1351, 2018 (Journal Indexed in SCI)
- IX. **EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF ETHANOL ADDITION INTO BIODIESEL-DIESEL FUEL BLENDS ON THE PERFORMANCE, COMBUSTION AND EMISSION CHARACTERISTICS**  
YEŞİLYURT M. K. , ARSLAN M., ERYILMAZ T.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.129-150, 2018 (Journal Indexed in SCI)
- X. **Comparison of Empirical Equations and Artificial Neural Network Results in Terms of Kinematic Viscosity Prediction of Fuels Based on Hazelnut Oil Methyl Ester**  
ERYILMAZ T., ARSLAN M., YEŞİLYURT M. K. , TANER A.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.35, no.6, pp.1827-1841, 2016 (Journal Indexed in SCI)
- XI. **Performance analysis of single and double basin-inclined solar water distillation systems with and without black-fleece wick**  
Aybar H. S. , Irani F., ARSLAN M.  
DESALINATION AND WATER TREATMENT, vol.57, no.37, pp.17167-17181, 2016 (Journal Indexed in SCI)
- XII. **Thermal performance of a vertical solar hot water storage tank with a mantle heat exchanger depending on the discharging operation parameters**  
ARSLAN M., İÇCİ A. A.  
SOLAR ENERGY, vol.116, pp.184-204, 2015 (Journal Indexed in SCI)
- XIII. **Experimental investigation of still performance for different active solar still designs under closed cycle mode**  
Arslan M.  
Desalination, vol.307, pp.9-19, 2012 (Journal Indexed in SCI Expanded)
- XIV. **Effect of obstacles on thermal stratification in hot water storage tanks**  
Altuntop N., Arslan M., Ozceyhan V., Kanoglu M.  
APPLIED THERMAL ENGINEERING, vol.25, no.14-15, pp.2285-2298, 2005 (Journal Indexed in SCI)
- XV. **Optimum dimensions of an obstacle placed in a hot water tank for thermal stratification**  
Arslan M., Altuntop N., Ozceyhan V., Kanoglu M.  
ENERGY EXPLORATION & EXPLOITATION, vol.23, no.5, pp.357-373, 2005 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Determination of the fuel properties of cottonseed oil methyl ester and its blends with diesel fuel**  
ERYILMAZ T., YEŞİLYURT M. K. , YUMAK H., ARSLAN M., ŞAHİN S.  
International Journal of Automotive Engineering and Technologies, vol.3, no.2, pp.79-90, 2014 (Refereed Journals of Other Institutions)
- II. **Sıcak su depolama tankındaki dairesel plakaların ısıtabakalaşmaya etkisi**  
ARSLAN M., KAPTAN İ. N. , ALTUNTOP N.

İtüdergisi/d : mühendislik, vol.5, no.6, pp.74-86, 2006 (Other Refereed National Journals)

**III. Isıl tabakayı iyileştirmek için sıcak su depolama tankı içerisine yerleştirilen dairesel plakanın optimum boyutlarının sayısal ve deneysel olarak araştırılması**

ARSLAN M., KAPTAN İ. N. , ALTUNTOP N.

İtüdergisi/d : mühendislik, 2006 (Other Refereed National Journals)

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

**I. A Study Regarding The Covid-19 Effect On The Oil Markets**

Yılbaşı Z., Yeşilyurt M. K. , Arslan M.

International World Energy Conference, Kayseri, Turkey, 3 - 04 December 2021, pp.39-44

**II. Insights into the biodiesel derived from hemp (Cannabis sativa L.) seed oil as an important raw material and its fuel characteristics**

Yılbaşı Z., Yeşilyurt M. K. , Arslan M.

4. International Marmara Sciences Congress (IMASCON-Spring 2020), Kocaeli, Turkey, 19 - 20 June 2020, pp.571-584

## **Supported Projects**

ARSLAN M., Project Supported by Higher Education Institutions, Atık Bitkisel Kızartma Yağı ve Kanola Yağı Karışımlarından Üretilen Biyodizelde Farklı Enjektör Basınçlarının Motor Performans ve Egzos Emisyonlarına Etkisinin İncelenmesi, 2014 - 2017

## **Citations**

Total Citations (WOS):312

h-index (WOS):8