Res. Asst. MURAT UMUT YANGAZ

Personal Information

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International Researcher IDs
ScholarID: t94YqQEAAAAJ&hl=tr
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ScopusID: 57209450455
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Biography

Murat Umut Yangaz, İstanbul'da doğdu. Liseden sonra Uludağ Üniversitesi Makine Mühendisliği Bölümüne girdi. Lisans eğitimi sırasında bir yıl boyunca İtalya'nın Torino kentinde kaldı ve ERASMUS programı kapsamında Politecnico Di Torino'da dersler aldı. 2012 yılında mezun olduktan sonra 2013'te Marmara Üniversitesi Mühendislik Fakültesi'nde Makine Mühendisliği Yüksek Lisans programına başladı ve 2014 yılında mezun oldu. Akademik kariyerine Şubat 2014'te Sakarya Üniversitesi'nde araştırma görevlisi olarak başladı. Kırklareli Üniversitesi'nde kısa bir süre geçirdikten sonra, halen doktorasını yapmakta olduğu Marmara Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü'nde çalışmaya başladı. Aynı kurumda 2015 yılında başladığı Kimya Mühendisliği Bölümünde Yüksek Lisans derecesini 2018 yılında aldı.

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (Dr), Turkey 2014 - Continues
Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Kimya Mühendisliği (Yl) (Tezli), Turkey 2015 - 2018
Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (Yl) (Tezli), Turkey 2013 - 2014
Undergraduate, Uludağ Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2006 - 2012

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Other, 13th Summer School on Exergy and Its Application, Marmara Üniversitesi, 2016

Dissertations

Postgraduate, INVESTIGATION OF THE EFFECTS OF INDUSTRIAL GAS BURNER MODIFICATIONS ON EMISSIONS AND EFFICIENCY, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Kimya Mühendisliği (Yl) (Tezli), 2018
Postgraduate, CFD modeling of gas burners using renewable and fossil fuels, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (Yl) (Tezli), 2014

Research Areas

Polymer Technology, Fuels and Combustion Technology, Fluid Mechanics, Conventional Energy Systems and Their Technology, Fluid Machinery, Alternative Energy Resources, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Thermal Systems, Thermal machines

Academic Titles / Tasks

Research Assistant, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Combustion performance of a domestic cooker burner at different design parameters and fuels**
YANGAZ M. U., Coskun G., YILMAZ M., Soyhan H. S.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.409-423, 2024 (SCI-Expanded)

II. **Energy, Exergy and Exergo-Economic Characteristics of Hydrogen Enriched Hydrocarbon-Based Fuels in a Premixed Burner**
Özdemir M. R., Yangaz M. U., Yılmaz İ. T.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.43, no.23, pp.3119-3136, 2021 (SCI-Expanded)

III. **Effects of injection strategy and combustion chamber modification on a single-cylinder diesel engine**
ŞENER R., YANGAZ M. U., GÜL M. Z.
FUEL, vol.266, 2020 (SCI-Expanded)

IV. **Effect of air pressure on nanofiber production in solution blowing method**
POLAT Y., YANGAZ M. U., Calisir M. D., GÜL M. Z., Demir A., EKİCİ B., Kılıç A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.4, pp.1719-1728, 2020 (SCI-Expanded)

V. **Combustion performance of hydrogen-enriched fuels in a premixed burner**
YANGAZ M. U., ÖZDEMİR M. R., ŞENER R.
ENVIRONMENTAL TECHNOLOGY, vol.41, no.1, pp.2-13, 2019 (SCI-Expanded)

VI. **Influence of piston bowl geometry on combustion and emission characteristics**
ŞENER R., ÖZDEMİR M. R., YANGAZ M. U.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.233, no.5, pp.576-587, 2019 (SCI-Expanded)

VII. **Comparison of Conventional and Modified Burners inPerformance with Different Fuels using a Linear and aNon-linear Eddy-viscosity Turbulence Model**

Yangaz M. U., Çiftçioğlu G. A., Kadırgan M. A. N.
Journal of Applied Fluid Mechanics, vol.12, no.6, pp.2069-2081, 2019 (SCI-Expanded)

VIII. **A New Device Preventing Air Embolism During the Angiography, Virtual Hemodynamic Study**
ÜN H., DOĞAN M., YALTIRIK H., YANGAZ M. U., KÜÇÜK U., IŞILAK Z., UZUN M.
American Journal Of Cardiology, vol.117, pp.44, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **Farklı Uygulama ve Tasarımların Bir Gaz Yakıcıdaki Emisyonların Düşürülmesine Etkileri**
YANGAZ M. U., ÇİFTÇİOĞLU G. A., KADIRGAN M. A. N.
Marmara Fen Bilimleri Dergisi, vol.30, pp.218-226, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **The combustion characteristics and performance evaluation of hydrogen addition to various fuels in a premixed burner**
ŞENER R., ÖZDEMİR M. R., YANGAZ M. U.
VI. European Coneference on Renewable Energy Systems, İstanbul, Turkey, 25 - 27 June 2018

II. **The effects of piston bowl geometries of Direct Injection Diesel Engines on emission and combustion characteristics**
ŞENER R., YANGAZ M. U., ÖZDEMİR M. R.
VI. European Conference on Renewable Energy Systems, İstanbul, Turkey, 25 - 27 June 2018

III. **Investigating the Effect of Air Pressure of Novel Nanofiber Production Technique: Solution Blowing**
POLAT Y., YANGAZ M. U., STOJANOVSKA E., DEMİR A., KILIÇ A.
3. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 8 - 09 March 2018

IV. **INVESTIGATION OF THE EFFECTS OF GEOMETRIC ADJUSTMENTS AND DIFFERENT FUELS ON EFFICIENCY AND EMISSIONS OF A CONVENTIONAL INDUSTRIAL BURNER**
YANGAZ M. U., ÇİFTÇİOĞLU G. A., KADIRGAN M. A. N.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017– ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

V. **APPLICATION OF PCM IN THERMAL ENGINEERING: A REVIEW**
ÖZDEMİR M. R., YANGAZ M. U., ŞENER R.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 –ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

VI. **OPTIMIZATION OF COOLING PERFORMANCE OF A MICRO HEAT EXCHANGER USING ARTIFICIAL NEURAL NETWORK**
YANGAZ M. U., ŞENER R., ÖĞÜT S.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017– ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

VII. **HEAT TRANSFER CHARACTERISTICS OF NANOFLUIDS IN MICRO-SCALE: A REVIEW**
ÖZDEMİR M. R., ŞENER R., YANGAZ M. U.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 –ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

VIII. **EFFECTS OF THE DISTANCE AND DIAMETER OF THE COOKER FROM DOMESTIC BURNER WITH CRESCENT FLAME CHANNELS ON OPTIMAL TEMPERATURE DISTRIBUTION AND THERMAL EFFICIENCY**
ŞENER R., ÖZDEMİR M. R., YANGAZ M. U.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 –ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

IX. **PERFORMANCE AND EFFICIENCY COMPARISON OF SEVERAL DIFFERENT INTAKE DESIGNS FOR A FORMULA SAE RACE CAR**
YANGAZ M. U., ÖZDEMİR M. R., ŞENER R.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 –ICAME2017, İstanbul, Turkey, 19 - 21 December 2017

Supported Projects

Gül M. Z., Ekici B., Taçgın E., Yılmaz M., Köten H., Yılmaz İ. T., TUBITAK Project, TLM16V185 Tipi Ağır Dizel Motorunun Modernizasyonu, 2018 - 2022

Scientific Refereeing

FUEL, SCI Journal, May 2019
Uluslararası Yakıtlar Yanma Ve Yangın Dergisi, Other Indexed Journal, April 2019
Journal of Thermal Engineering, Journal Indexed in ESCI, June 2018

Metrics

Publication: 18
Citation (WoS): 37
Citation (Scopus): 43
H-Index (WoS): 4
H-Index (Scopus): 5

Scholarships

TLM16V185 Tipi Ağır Dizel Motorunun Modernizasyonu, TUBITAK, 2018 - 2022

Awards

Yangaz M. U., Şener R., Özdemir M. R., Best Paper Award, Vı. European Conference On Renewable Energy Systems, June 2018