

Prof. HASAN YAMIK

Personal Information

Office Phone: [+90 228 214 1541](tel:+902282141541)

Email: hasan.yamik@bilecik.edu.tr

Web: <https://avesis.bilecik.edu.tr/hasan.yamik>

International Researcher IDs

ScholarID: ed_rlfEAAAAJ

ORCID: 0000-0002-6269-8606

ScopusID: 55856351400

Yoksis Researcher ID: 60758

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), Turkey 1998 - 2002

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Yl) (Tezli), Turkey 1998 - 1998

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 1987 - 1997

Dissertations

Doctorate, Dizel motorlarında alternatif yakıt olarak yağ esterlerinin kullanılma imkanlarının araştırılması, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), 2002

Postgraduate, İzolasyon et kalınlığının kritik yarıçap üzerine etkisinin irdelenmesi, Kocaeli University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Yl) (Tezli), 1998

Academic and Administrative Experience

Bilecik Seyh Edebali University, 2018 - 2020

Bilecik Seyh Edebali University, 2014 - 2015

Bilecik Seyh Edebali University, 2011 - 2014

Bilecik Seyh Edebali University, 2011 - 2014

Bilecik Seyh Edebali University, 2010 - 2014

Bilecik Seyh Edebali University, 2010 - 2014

Bilecik Seyh Edebali University, 2010 - 2014

Bilecik Seyh Edebali University, 2007 - 2010

Courses

Yeni Enerji Kaynakları, Postgraduate, 2018 - 2019

Teknik Resim, Undergraduate, 2018 - 2019, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Motorlar, Undergraduate, 2018 - 2019, 2013 - 2014, 2012 - 2013, 2011 - 2012

Yakıtlar ve Yanma, Undergraduate, 2018 - 2019

Taşıt Emisyon Kontrol Teknikleri, Postgraduate, 2018 - 2019

Isı Transferi, Undergraduate, 2016 - 2017
Termodinamik 2, Undergraduate, 2015 - 2016, 2013 - 2014, 2012 - 2013
Termodinamik 1, Undergraduate, 2015 - 2016, 2013 - 2014, 2012 - 2013
ALTERNATİF YAKITLAR VE MOTORLAR, Associate Degree, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010
Dizel Motorlar ve Enjeksiyon Sistemleri, Associate Degree, 2013 - 2014
ENERJİ YÖNETİMİ, Associate Degree, 2012 - 2013, 2011 - 2012
Motorlarda Emisyon Kontrol Yöntemleri, Postgraduate, 2010 - 2011

Advising Theses

YAMIK H., Kamu binalarının karbon ayak izi miktarındaki rolü, Postgraduate, S.CARFİ(Student), 2022
YAMIK H., Bir otomotiv tedarikçisinde IATF 16949 kapsamında APQP proje çalışması ve FMEA, SPC uygulaması, Postgraduate, B.GÜZEL(Student), 2022
YAMIK H., Demiryollarında lokomotif çekerlerinin hesaplama yönteminin belirlenmesi, Postgraduate, H.EREN(Student), 2021
YAMIK H., HCCI bir motor için ekserji analizi, Postgraduate, C.YILMAZ(Student), 2019
YAMIK H., Ön ısıtıcı ve kalsinatörlü çimento fabrikasına ait döner fırın prosesi üzerinde enerji ve ekserji analizlerinin uygulanması, Postgraduate, O.UĞUR(Student), 2018
YAMIK H., Hibrit (piston prop-elektrik) tahrikli hafif genel maksat helikopterin enerji ve çevresel etkilerinin matematiksel incelenmesi, Doctorate, E.KORUYUCU(Student), 2018
YAMIK H., Yakıt harmanlarının dizel enjektör nozulları üzerinde etkisinin deneysel incelenmesi, Postgraduate, O.AL(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Baseline architecture design for a turboelectric distributed propulsion system using single turboshaft engine operational scenario**
YAZAR I., ŞENER E., ERTAŞGIN G., YAMIK H.
International Journal of Turbo and Jet Engines, 2020 (SCI-Expanded)
- II. **Optimum insulation thickness for piping system using exergy and environmental methods**
Özel G., AÇIKKALP E., GÖRGÜN B., YAMIK H., CANER N.
International Journal of Global Warming, vol.11, no.1, pp.107-123, 2017 (SCI-Expanded)
- III. **Assessment of nano-scale Stirling refrigerator using working fluid as Maxwell-Boltzmann gases by thermo-ecological and sustainability criteria**
AÇIKKALP E., SAVAŞ A. F., CANER N., YAMIK H.
Chemical Physics Letters, vol.658, pp.303-308, 2016 (SCI-Expanded)
- IV. **An experimental study on the effects of diesel and jet-A1 fuel blends on combustion, engine performance and exhaust emissions in a direct injection diesel engine**
SOLMAZ H., YAMIK H., Uyumaz A., Polat S., Yilmaz E.
Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.36, no.2, pp.51-60, 2016 (SCI-Expanded)
- V. **Energetic and exergetic assessments of an internal combustion engine with sunflower ester blends**
YAMIK H.
International Journal of Exergy, vol.20, no.4, pp.482-495, 2016 (SCI-Expanded)
- VI. **Thermodynamic analysis of diesel engine with sunflower biofuel**
YAMIK H., Ozel G., AÇIKKALP E., İçingür Y.
Proceedings of Institution of Civil Engineers: Energy, vol.168, no.3, pp.178-187, 2015 (SCI-Expanded)
- VII. **A comparative study on engine performance and emissions of biodiesel and JP-8 aviation fuel in a direct injection diesel engine**

- YAMIK H., SOLMAZ H., İçingür Y.
Indian Journal of Engineering and Materials Sciences, vol.21, no.4, pp.438-444, 2014 (SCI-Expanded)
- VIII. **Investigation of the effects of civil aviation fuel Jet A1 blends on diesel engine performance and emission characteristics**
SOLMAZ H., YAMIK H., İçingür Y., CALAM A.
Indian Journal of Engineering and Materials Sciences, vol.21, no.2, pp.200-206, 2014 (SCI-Expanded)
- IX. **Performance of a compression ignition engine operated with sunflower ethyl ester under different engine loads**
AÇIKKALP E., YAMIK H., İçingür Y.
Journal of Energy in Southern Africa, vol.25, no.2, pp.81-90, 2014 (SCI-Expanded)
- X. **An investigation of effect of biodiesel and aviation fuel jeta-1 mixtures performance and emissions on diesel engine**
YAMIK H.
Thermal Science, vol.18, no.1, pp.239-247, 2014 (SCI-Expanded)
- XI. **Experimental examination of the effects of military aviation fuel JP-8 and biodiesel fuel blends on the engine performance, exhaust emissions and combustion in a direct injection engine**
Uyumaz A., SOLMAZ H., Yilmaz E., YAMIK H., Polat S.
Fuel Processing Technology, vol.128, pp.158-165, 2014 (SCI-Expanded)
- XII. **Effects of diesel and jp-8 aviation fuel blends on engine performance and exhaust emissions in a single cylinder diesel engine Havacılık yakiti jp-8 ve dzel kariimlarinin tek slndrl br dzel motorunda performans ve egzoz emsyonlarına etkis**
YAMIK H., CALAM A., SOLMAZ H., İçingür Y.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.28, no.4, pp.787-793, 2013 (SCI-Expanded)
- XIII. **Limits and optimization of power input or output of actual thermal cycles**
AÇIKKALP E., YAMIK H.
Entropy, vol.15, no.8, pp.3219-3248, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Performance Assesment of Phosphoric Acid Fuel Cell-Thermoelectric Generator Hybrid System with Economic Aspect**
ÇELİK F., AÇIKKALP E., YAMIK H.
Journal of Thermal Engineering, vol.5, no.9, pp.29-45, 2019 (Scopus)
- II. **Homojen Şarj Sıkıştırma Ateşlemeli (HCCI) Bir Motor için Ekserji Analizi**
Yılmaz C., YAMIK H.
Technological Applied Sciences, 2019 (Peer-Reviewed Journal)
- III. **Performance assessment of phosphoric acid fuel cell - Thermoelectric generator hybrid system with economic aspect**
Çelik F. G., AÇIKKALP E., YAMIK H.
Journal of Thermal Engineering, vol.5, no.2, pp.29-45, 2018 (Scopus)
- IV. **Optimum insulation thickness for cooling applications through exergy analysis and environmental methods**
Daldal B. N., Sarioğlu İ., ÖZEL EROL G., AÇIKKALP E., YAMIK H.
Green Energy and Technology, vol.PartF2, pp.339-347, 2016 (Scopus)
- V. **Optimum insulation thickness determination using the environmental and life cycle cost analyses based entransy approach**
Özel G., AÇIKKALP E., GÖRGÜN B., YAMIK H., CANER N.
Sustainable Energy Technologies and Assessments, vol.11, pp.87-91, 2015 (Scopus)
- VI. **Modeling and optimization of maximum available work for irreversible gas power cycles with**

temperature dependent specific heat

AÇIKKALP E., YAMIK H.

Journal of Non-Equilibrium Thermodynamics, vol.40, no.1, pp.25-39, 2015 (Scopus)

VII. Entropy analysis for irreversible gas power cycles with temperature dependent specific heat

AÇIKKALP E., YAMIK H.

INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.1, no.3, pp.245, 2015 (Peer-Reviewed Journal)

VIII. Methods used for evaluating irreversible Brayton cycle and comparing them

ÖZEL G., AÇIKKALP E., YAMIK H.

INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.1, no.3, pp.288-298, 2015 (Peer-Reviewed Journal)

IX. Metil ve Etil Esterin Dizel Yakıtı Olarak Kullanılma İmkanlarının Araştırılması

YAMIK H.

Gazi Üniversitesi Politeknik Dergisi, 2003 (Peer-Reviewed Journal)

X. Gelgit Enerjisi ile Güç Üretimi

İçingür Y., YAMIK H.

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, 2000 (Peer-Reviewed Journal)

Books & Book Chapters

I. Optimum Insulation Thickness for Cooling Applications Through Exergy Analysis and Environmental Methods

Daldal B. N., Sarioğlu İ., ÖZEL EROL G., AÇIKKALP E., YAMIK H.

in: Energy, Transportation and Global Warming, Panagiotis Grammelis, Editor, Springer International Publishing, pp.339-347, 2016

Refereed Congress / Symposium Publications in Proceedings

I. LIFE CYCLE ANALYSIS IMPACT ASSESSMENT FOR A HELICOPTER WITH HYBRID ELECTRIC PROPULSION SYSTEM

KORUYUCU E., ALTUNTAŞ Ö., YAMIK H., KARAKOÇ T. H.

ISEASISATECHICUAV 2020, 22 - 24 September 2020

II. 1.2kW Interleaved synchronous buck converter design for aviation systems

ŞENER E., YAZAR İ., ERTAŞGIN G., YAMIK H.

ISATECH 2019, 9 - 11 October 2019, vol.314, pp.2005

III. 270VDC-28VDC Synchronous Interleaved 1.2kW Buck Converter Design for Avionics

ŞENER E., YAZAR İ., ERTAŞGIN G., YAMIK H.

ISATECH 2019, 9 - 11 October 2019

IV. Investigation of Energy Usage in Cement Production Process by Performing Exergy Analysis

Uğur O., YAMIK H.

ICELIS 2018, 26 - 29 December 2019

V. Applications of Fuel Cells in Aviation

KORUYUCU E., ALTUNTAŞ Ö., YAMIK H., KARAKOÇ T. H.

ISSA-ISEAS 2019, 26 - 29 May 2019

VI. Hybrid Electric Powered system for the Robinson R22 Helicopter

Yıldırım E., Yıldırım E., YAMIK H.

ISEAS, 10 - 18 November 2018

VII. Hybrid Power System for light Utility Helicopter

YAMIK H., KARAKOÇ T. H., yıldırım e.

ISSA, 9 - 11 July 2018

VIII. Usage of Hybrid electric and Fuel Cell Electric Propulsion Systems in air Vehicles

YAMIK H., KARAKOÇ T. H., YILDIRIM E.

GCGW, 24 - 28 June 2018

IX. Investigation of Energy Usage in Cement Production Process by Performing Exergy Analysis

YAMIK H., UĞUR O.

ICELIS, 26 - 28 April 2018

X. Determination of the Optimum Insulation Thickness For Cooling Applications Using a Novel Method That Combines Exergy And Environmental Methods

Daldal B. N., Sarioglu I., Özel G., Açikkalp E., Yamik H.

Global Conference on Global Warming (GCGW 2015), Athens, Greece, 24 - 27 May 2015

XI. Determination of the Optimum Insulation Thickness For Cooling Applications Using a Novel Method That Combines Exergy And Environmental Method

BEYZA NUR D., SARIOĞLU İ., ÖZEL G., AÇIKKALP E., YAMIK H.

Global Conference on Global Warming (GCGW 2015), 24 - 27 May 2015

XII. Türkiye ve Dünya da Hidrojen Enerjisinin Gelişimi

YAMAN E., YAMIK H.

Anadolu EnerjiSempozyumu, Turkey, 22 - 24 June 2011

Supported Projects

YAMIK H., Project Supported by Higher Education Institutions, Dizel Motor Enjektörlerinin Uç Kısımlarında Yakıt Kaynaklı Oluşan Hasarın Analizi, 2012 - 2013