

Assoc. Prof. HAKAN BAYRAKTAR

Personal Information

Office Phone: [+90 462 377 2985](tel:+904623772985)

Fax Phone: [+90 462 377 3336](tel:+904623773336)

Email: hakanbay@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr//hakanbay>

Address: ktü makina mühendisliği bölümü, 61080, trabzon

International Researcher IDs

ORCID: 0000-0003-1065-3497

ScopusID: 55921026300

Yoksis Researcher ID: 117109

Education Information

Undergraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Anabilimdalı, Turkey 1983 - 2007

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Anabilimdalı, Turkey 1991 - 1997

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği Anabilimdalı, Turkey 1988 - 1991

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2009 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2006 - 2009

Assistant Professor, Karadeniz Technical University, Deniz Bilimleri Fakültesi, Gemi İnşaatı Mühendisliği, 2002 - 2006

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 1988 - 2002

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An experimental study on the performance parameters of an experimental CI engine fueled with diesel-methanol-dodecanol blends**
Bayraktar H.
FUEL, vol.87, no.2, pp.158-164, 2008 (SCI-Expanded)
- II. **Theoretical investigation of flame propagation process in an SI engine running on gasoline-ethanol blends**
Bayraktar H.
RENEWABLE ENERGY, vol.32, no.5, pp.758-771, 2007 (SCI-Expanded)
- III. **Experimental and theoretical investigation of using gasoline-ethanol blends in spark-ignition engines**

Bayraktar H.

RENEWABLE ENERGY, vol.30, no.11, pp.1733-1747, 2005 (SCI-Expanded)

IV. Investigating the effects of LPG on spark ignition engine combustion and performance

Bayraktar H., Durgun O.

ENERGY CONVERSION AND MANAGEMENT, vol.46, pp.2317-2333, 2005 (SCI-Expanded)

V. Development of an empirical correlation for combustion durations in spark ignition engines

Bayraktar H., Durgun O.

ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.1419-1431, 2004 (SCI-Expanded)

VI. Mathematical Modeling of spark-ignition engine cycles

Bayraktar H., Durgun O.

ENERGY SOURCES, vol.25, no.7, pp.651-666, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Benzin Motorları Çevrim Modellemesi İçin Pratik Bir Yöntem ve Benzin Motorlarında Çalışma Parametrelerinin Yanma Ürünleri Üzerindeki Etkileri”

ŞAHİN Z., Durgun O., BAYRAKTAR H.

I. Ege Enerji Sempozyumu ve Sergisi, Denizli, Turkey, 22 - 24 May 2003, vol.-, pp.284-289

II. An Iterative Solution Method for Calculation of the Combustion Products Composition”

DURGUN O., ŞAHİN Z., BİLGİN A., BAYRAKTAR H.

Pocceedings of the First Trabzon Internotional Energy and Environment Semposium (TIEES-96), Trabzon, Turkey, 29 - 31 July 1996, vol.2, pp.781-788

III. Numerical Prediction of In-Cylinder Flows During Intake and Exhaust Strokes in Axisymmetric Reciprocating Engines

BİLGİN A., DURGUN O., BAYRAKTAR H.

Numerical Methods in Laminar and Turbulent Flow, Atlanta, United States Of America, 10 - 14 July 1995, vol.9, pp.370-381

Supported Projects

BİLGİN A., OKUMUŞ H. İ., ASLAN M., KAHVECİ H., BAYRAKTAR H., ŞAHİN Z., Project Supported by Higher Education Institutions, Elektrikli ve Hidromobil Taşıt geliştirme Laboratuvarı Kurulması, 2015 - 2015

Metrics

Publication: 9

Citation (WoS): 420

Citation (Scopus): 579

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

Karadeniz Teknik Üniversitesi Makine Mühendisliği Bölümü

Karadeniz Teknik Üniversitesi

Karadeniz Teknik Üniversitesi