

## Assoc. Prof. HAKAN BAYRAKTAR

### Personal Information

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### International Researcher IDs

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### 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

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