

## Assoc. Prof. HAKAN BAYRAKTAR

### Personal Information

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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

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- VI. **Mathematical Modeling of spark-ignition engine cycles**  
Bayraktar H., Durgun O.  
ENERGY SOURCES, vol.25, no.7, pp.651-666, 2003 (Journal Indexed in SCI)

### **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.  
Poceedings 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

### **Citations**

Total Citations (WOS):419

h-index (WOS):6