

Prof. RASİM BEHÇET

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABG-8704-2020

Yoksis Researcher ID: 33233

Education Information

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 1993 - Continues

Doctorate, Suleyman Demirel University, Fen Bilimleri Ensti, Makine Mühendisliği, Turkey 1994 - 1998

Undergraduate, Firat University, Faculty Of Engineering, Makine Mühendisliği, Turkey 1984 - 1989

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Dönmeli Akışlarda, Boru Girişinde Akışkan Sıcaklığının Keyfi Değişiminin Isı Transferine Etkisi, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 1998

Postgraduate, Isı Eşanjörüne Yerleştirilen Konik-Halka Yüzey Elemanları ve Helisel Yayların Isı Transferine Etkisi, Ataturk University, Fen Bilimleri Enstitüsü, Enerji, 1993

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2013 - 2018

Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - 2016

Batman University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2013

Batman University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, 2007 - 2011
Batman University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, 2007 - 2011
Batman University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2000 - 2003

Courses

İleri Termodinamik, Postgraduate, 2017 - 2018
Alternatif Yakıtlar ve Motorlar, Postgraduate, 2017 - 2018
Motorlarda Yanma ve Emisyon Kontrolü, Doctorate, 2017 - 2018
Yenilenebilir Enerji Kaynakları, Postgraduate, 2017 - 2018
Enerji Santralleri, Undergraduate, 2017 - 2018
Hidrolik ve Termik Makinalar, Undergraduate, 2017 - 2018
Termodinamik-I, Undergraduate, 2017 - 2018
Gaz Türbinleri, Undergraduate, 2017 - 2018
Termodinamik-II, Undergraduate, 2017 - 2018
Motorlarda Yanma ve Emisyon Kontrolü, Undergraduate Minor, 2017-2018
Enerji Santralleri, Undergraduate, 2017-2018
İleri Termodinamik, Undergraduate Double Major, 2017-2018
Hidrolik ve Termik Makinalar, Undergraduate, 2017-2018
Yenilenebilir Enerji Kaynakları, Undergraduate Double Major, 2017-2018
Alternatif Yakıtlar ve Motorlar, Undergraduate Double Major, 2017-2018
Termodinamik-I, Undergraduate, 2017-2018
Termodinamik-II, Undergraduate, 2017-2018
Gaz Türbinleri, Undergraduate, 2017-2018
Enerji Santralleri, Undergraduate, 2013-2014
TERMODİNAMİK, Undergraduate, 2013-2014
İleri Termodinamik, Undergraduate Minor, 2013-2014
Isı Değiştiricileri, Undergraduate, 2013-2014
Motorlar, Undergraduate, 2013-2014
Yakıtlar ve Yanma, Undergraduate, 2013-2014
Hidrolik ve Termik Makinalar, Undergraduate, 2013-2014
Isı Işınımı, Undergraduate Minor, 2013-2014
Isı Pompaları, Undergraduate Double Major, 2012-2013
ISI TRANSFERİ, Undergraduate, 2012-2013
Nemli Hava Termodinamiği, Undergraduate Double Major, 2012-2013
TEKNİK RESİM, Undergraduate, 2012-2013
Yakıtlar ve Yanma, Undergraduate, 2012-2013
Isı Değiştiricileri, Undergraduate, 2012-2013
ISI TRANSFERİ, Undergraduate, 2011-2012
TERMODİNAMİK, Undergraduate, 2011-2012
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2011-2012
TEKNİK RESİM, Undergraduate, 2011-2012
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2011-2012
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2010-2011
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2010-2011
TEKNİK RESİM, Undergraduate, 2010-2011
ISI TRANSFERİ, Undergraduate, 2009-2010
TEKNİK RESİM, Undergraduate, 2009-2010
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2009-2010
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2009-2010

TERMODİNAMİK, Undergraduate, 2009-2010
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2008-2009
TEKNİK RESİM, Undergraduate, 2008-2009
TERMODİNAMİK, Undergraduate, 2007-2008
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2007-2008
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2007-2008
TEKNİK RESİM, Undergraduate, 2007-2008
Isı Pompaları, Undergraduate Double Major, 2006-2007
TEKNİK RESİM, Undergraduate, 2006-2007
Isı Pompaları, Undergraduate Double Major, 2005-2006
TERMODİNAMİK, Undergraduate, 2005-2006
TEKNİK RESİM, Undergraduate, 2005-2006
Nemli Hava Termodinamiği, Undergraduate Double Major, 2005-2006
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2005-2006
TEKNİK RESİM, Undergraduate, 2004-2005
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2004-2005
Nemli Hava Termodinamiği, Undergraduate Double Major, 2004-2005
TEKNİK RESİM, Undergraduate, 2003-2004
TERMODİNAMİK, Undergraduate, 2003-2004
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2003-2004
TEKNİK RESİM, Undergraduate, 2002-2003
TEMEL İMALAT İŞLEMLERİ, Undergraduate, 2002-2003
TEKNİK RESİM, Undergraduate, 2001-2002
ŞAŞI VE GÜÇ AKTARMA ORGANLARI, Undergraduate, 2001-2002

Advising Theses

BEHÇET R., Isı eşanjörlerine yerleştirilen yarıklı konik elemanların ısı transferi ve basınç düşümü üzerindeki etkisinin deneysel olarak incelenmesi, Postgraduate, M.İBEK(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental investigation of the effect of a novel curved winglet vortex generator on heat transfer with a designed controller circuit**
Goksu T. T., BEHÇET R.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.180, 2022 (SCI-Expanded)
- II. **Testing sodium borohydride as a fuel additive in internal combustion gasoline engine**
Yakın A., BEHÇET R., SOLMAZ H., HALİS S.
ENERGY, vol.254, 2022 (SCI-Expanded)
- III. **Evaluation of hydrogen-containing NaBH₄ and oxygen-containing alcohols (CH₃OH, C₂H₅OH) as fuel additives in a gasoline engine**
BEHÇET R., Yakın A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.53, pp.22316-22327, 2022 (SCI-Expanded)
- IV. **Numerical investigation of the thermo-hydraulic performance of DNA inspired double and triple helix wire coils**
Goksu T. T., Yilmaz I. H., BEHÇET R.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.171, 2022 (SCI-Expanded)
- V. **Effect of different types of fuels tested in a gasoline engine on engine performance and emissions**
Yakın A., BEHÇET R.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.66, pp.33325-33338, 2021 (SCI-Expanded)

- VI. **Comparison of exhaust emissions of biodiesel-diesel fuel blends produced from animal fats**
BEHÇET R., Oktay H., Cakmak A., Aydin H.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.46, pp.157-165, 2015 (SCI-Expanded)
- VII. **Diesel engine applications for evaluation of performance and emission behavior of biodiesel from different oil stocks**
BEHÇET R., Aydin H., Ilkilic C., Iscan B., Aydin S.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.34, no.3, pp.890-896, 2015 (SCI-Expanded)
- VIII. **Evaluation as fuel diesel engine of methyl esters derived from waste animal fats**
Behcet R.
ENERGY EXPLORATION & EXPLOITATION, vol.33, no.2, pp.227-242, 2015 (SCI-Expanded)
- IX. **Effects of fuels produced from fish and cooking oils on performance and emissions of a diesel engine**
BEHÇET R., Yumrutas R., Oktay H.
ENERGY, vol.71, pp.645-655, 2014 (SCI-Expanded)
- X. **Comparison of exhaust emissions of biodiesel-diesel fuel blends produced from waste oils in Turkey**
Behcet R.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.2, pp.1103-1114, 2012 (SCI-Expanded)
- XI. **Investigating the effect slotted conical ring elements placed in a heat changer have on heat transfer**
Behcet R., IBEK M.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.2, pp.1183-1190, 2012 (SCI-Expanded)
- XII. **The effect of rotary type turbulator placed in entrance of heat exchanger on heat transfer and frictional loss**
Behcet R., Yakut A. K., Argunhan Z.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.1, pp.239-248, 2011 (SCI-Expanded)
- XIII. **Second Law analysis in concentric heat exchangers with vortex flow generators**
Argunhan Z., Behcet R., Yildiz C., Cakmak G.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.1, pp.285-292, 2011 (SCI-Expanded)
- XIV. **Production of biodiesel from safflower oil**
Behcet R., Aydin S., Ilkilic C.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.27, no.2, pp.295-300, 2011 (SCI-Expanded)
- XV. **A comparative study on anchovy fish oil, anchovy fish oil methyl ester and diesel fuels in a diesel engine**
Behcet R.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.27, no.2, pp.313-322, 2011 (SCI-Expanded)
- XVI. **Performance and emission study of waste anchovy fish biodiesel in a diesel engine**
Behcet R.
FUEL PROCESSING TECHNOLOGY, vol.92, no.6, pp.1187-1194, 2011 (SCI-Expanded)
- XVII. **Biodiesel from safflower oil and its application in a diesel engine**
Ilkilic C., Aydin S., Behcet R., Aydin H.
FUEL PROCESSING TECHNOLOGY, vol.92, no.3, pp.356-362, 2011 (SCI-Expanded)
- XVIII. **The current status of wind energy in Turkey and in the world**
Ilkilic C., Aydin H., Behcet R.
ENERGY POLICY, vol.39, no.2, pp.961-967, 2011 (SCI-Expanded)
- XIX. **The Reduction of Exhaust Emissions from a Diesel Engine by Using Biodiesel Blend**

Ilklic C., Behcet R.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.32, no.9, pp.839-850, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Pyrolysis of Walnut Shells and Pyrolysis Oil Quality**
ORAL F., Behçet R., GÖNEL E.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.12, no.2, pp.435-444, 2023 (Peer-Reviewed Journal)
- II. **Numerical Investigation of the Effect of Edge Length of Square Helical Wires on Heat Transfer and Pressure Drop**
Göksu T. T., Behçet R.
European Journal of Science and Technology, no.28, pp.602-606, 2021 (Peer-Reviewed Journal)
- III. **Rüzgâr Verilerinin Enerji Üretimi Amaçlı Değerlendirilmesi**
BEHÇET R.
BEÜ Fen Bilimleri Dergisi, vol.4, no.2, pp.173-182, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Numerical Investigation of the Effect of was Distance on heat Transfer Improvement**
GÖKSU T. T., BEHÇET R.
6TH International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021
- II. **ODUNSU BİYOKÜTLE ATIKLARINDAN ENERJİ ÜRETİMİ**
GÖNEL E., BEHÇET R., Oral F.
22. Isı Bilimi ve Tekniği Kongresi / 22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, pp.325-329
- III. **MALATYA İLİNDEKİ ATIK PLASTİKLERDEN DİZEL MOTOR YAKITI ÜRETİMİ**
BEHÇET R., EROĞLU A.
22. Isı Bilimi ve Tekniği Kongresi / 22nd Congress on Thermal Science and Technology 11-14 September/Eylül 2019, KOCAELİ, Kocaeli, Turkey, 11 - 14 September 2019, pp.99-105
- IV. **Basınç Kırıcı Vana ve Maslak Seçimi**
ŞAHİNASLAN A., AKPINAR H., SANCAKOĞLU M., KOCA T., BEHÇET R.
UKSAY, Denizli, Turkey, 25 - 27 October 2018
- V. **MASKİ İsale Hattı Mikro HES Üretim Potansiyeli Analizi**
ŞAHİNASLAN A., SANCAKOĞLU M., BEHÇET R., KOCA T.
UKSAY, Denizli, Turkey, 25 - 27 October 2018
- VI. **Basınç Kırıcı Vana ve Maslak Seçimi**
ŞAHİNASLAN A., AKPINAR H., SANCAKOĞLU M., KOCA T., BEHÇET R.
International Symposium on Urban Water and Wastewater Management October 25-27, 2018, Denizli, Denizli, Turkey, 25 - 27 October 2018, pp.804-809
- VII. **MASKİ İsale Hattı Mikro HES Üretim Pontesiyeli Analizi**
ŞAHİNASLAN A., SANCAKOĞLU M., BEHÇET R., KOCA T.
International Symposium on Urban Water and Wastewater Management October 25-27, 2018, Denizli, Denizli, Turkey, 25 - 27 October 2018, pp.797-803
- VIII. **Residential Green Building Design and Energy Analysis in Malatya**
ŞAHİNASLAN A., AKSOY İ. G., SANCAKOĞLU M., BEHÇET R., KOCA T.
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 21 October 2017, pp.2754-2757
- IX. **The Energy Evaluation of the City of Malatya's Animal Waste Potential**

BEHÇET R., Gönel E., ŞAHİNASLAN A., Oral F.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 21 October 2017, pp.450-458

X. Residential Green Building Design and Energy Analysis in Malatya

ŞAHİNASLAN A., AKSOY İ. G., SANCAKOĞLU M., BEHÇET R., KOCA T.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.2754-2757

XI. Cost Analysis of a Plant Energy Requirement Meeting With Photovoltaic System In Malatya

ŞAHİNASLAN A., BEHÇET R., KOCAASLAN M. M.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 21 October 2017, pp.2866-2870

Supported Projects

BEHÇET R., GÖKSU T. T., YILMAZ İ. H., Project Supported by Higher Education Institutions, Isı Değiştiricisine Yerleştirilen Farklı Tip Türbülatorlerin Isı Transferi Üzerindeki Etkisinin Sayısal Ve Deneysel İncelenmesi, 2020 - 2022

BEHÇET R., EROĞLU A., Project Supported by Higher Education Institutions, Malatyadaki Atık Plastiklerden Piroliz Yöntemiyle Alternatif Yakıt Üretilmesi ve İçten Yanmalı Bir Motorlarda Yakıt Olarak Kullanılması, 2018 - 2020

Metrics

Publication: 33

Citation (WoS): 473

Citation (Scopus): 424

H-Index (WoS): 9

H-Index (Scopus): 9

Non Academic Experience

Horasan Çok Programlı Meslek Lisesi