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Biography

Mechanical Engineering Department

Education Information

Post Doctorate, Brunel University, Engineering Faculty, <https://www.brunel.ac.uk/people/hasan-koten>
<https://mysite.brunel.ac.uk/person.aspx> , United Kingdom 2018 - 2019

Doctorate, Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2009 - 2014

Postgraduate, Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2007 - 2009

Undergraduate Double Major, Sakarya Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2004 - 2008

Undergraduate, Sakarya Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 2003 - 2007

Foreign Languages

English, C2 Mastery

German, A2 Elementary

Certificates, Courses and Trainings

Education Management and Planning, VISITING SCHOLAR, THE OHIO STATE UNIVERSITY, 2011

Dissertations

Doctorate, EXPERIMENTAL INVESTIGATION AND MULTIDIMENSIONAL MODELING OF THE BIOGAS EFFECTS ON DIESEL ENGINE COMBUSTION CHARACTERISTICS, Marmara Üniversitesi, Fbe, Makine Mühendisliği, 2014

Postgraduate, COMPARISON OF VARIOUS COMBUSTION MODELS WITHIN A MULTIDIMENSIONAL FRAMEWORK APPLIED TO HEAVY DUTY CI ENGINE, Marmara Üniversitesi, Fbe, Makine Mühendisliği, 2009

Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Thermodynamics, Internal

Academic Titles / Tasks

Associate Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Mechanical Engineering , 2019 - Continues

Assistant Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Mechanical Engineering , 2018 - 2019

Lecturer PhD, Marmara Üniversitesi, Engineering, Mechanical Engineering, 2010 - 2014

Other, The Ohio State University, Engineering, Mechanical Engineering, 2010 - 2011

Research Assistant, Marmara Üniversitesi, Engineering, Mechanical Engineering, 2009 - 2010

Academic and Administrative Experience

Head of Department, Istanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Mechanical Engineering , 2016 - Continues

Deputy Head of Department, Istanbul Medeniyet University, 2015 - 2016

Courses

FLUID MECHANICS, Undergraduate, 2014 - 2015

COMPUTATIONAL FLUID DYNAMICS, Postgraduate, 2013 - 2014

INTERNAL COMBUSTION ENGINES, Undergraduate, 2012 - 2013

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

- I. **Thermal performance evaluation for different type of metal oxide water based nanofluids**
Loong T. T. , Salleh H., Khalid A., KÖTEN H.
CASE STUDIES IN THERMAL ENGINEERING, vol.27, 2021 (Journal Indexed in SCI)
- II. **A study of ignition delay, combustion process and emissions in a high ambient temperature of diesel combustion**
Abdullah I. S. , Khalid A., Jaat N., Nursal R. S. , KÖTEN H., KARAGÖZ Y.
FUEL, vol.297, 2021 (Journal Indexed in SCI)
- III. **Numerical and experimental investigation of fuel consumption and CO2 emission performance for a parallel hybrid vehicle**
BALCI Ö., KARAGÖZ Y., GEZER O., KALE S., KÖTEN H., PUSAT Ş., YÜKSEK L.
ALEXANDRIA ENGINEERING JOURNAL, vol.60, no.4, pp.3649-3667, 2021 (Journal Indexed in SCI)
- IV. **Fuel consumption and emission comparison of conventional and hydrogen feed vehicles**
BALCI Ö., KARAGÖZ Y., KALE S., DAMAR S., ATTAR A., KÖTEN H., DALKILIÇ A. S. , Wongwises S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.30, pp.16250-16266, 2021 (Journal Indexed in SCI)
- V. **Strive to Reduce Slurry Erosion and Cavitation in Pumps through Flow Modifications, Design Optimization and Some Other Techniques: Long Term Impact on Process Industry**
Noon A. A. , Jabbar A. U. , KÖTEN H., Kim M., Ahmed H. W. , Mueed U., Shoukat A. A. , Anwar B.
MATERIALS, vol.14, no.3, 2021 (Journal Indexed in SCI)
- VI. **Effect of different levels of ethanol addition on performance, emission, and combustion characteristics of a gasoline engine**
KÖTEN H., KARAGÖZ Y., BALCI Ö.
ADVANCES IN MECHANICAL ENGINEERING, vol.12, no.7, 2020 (Journal Indexed in SCI)

- VII. **Performance analysis of a hybrid lightweight vehicle with downsized engine**
 Karagoz Y., BALCI Ö., GEZER O., KALE S., KÖTEN H.
 ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (Journal Indexed in SCI)
- VIII. **Microwave-assisted pilot-scale biodiesel production and engine tests**
 DEMİR V. G. , Yuksel H., KÖTEN H., Gul M. Z. , SOYHAN H. S.
 PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-ENERGY, vol.172, no.1, pp.1-11, 2019 (Journal Indexed in SCI)
- IX. **THERMAL ANALYSIS AND OPTIMIZATION OF HIGH POWER LED ARMATURE**
 Sahbaz M., KENTLİ A., KÖTEN H.
 THERMAL SCIENCE, vol.23, no.2, pp.637-646, 2019 (Journal Indexed in SCI)
- X. **Energy, exergy and exergoeconomic analysis of solar-assisted vertical ground source heat pump system for heating season**
 ÜNAL F., TEMİR G., KÖTEN H.
 JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.32, no.8, pp.3929-3942, 2018 (Journal Indexed in SCI)
- XI. **Effects of the diesel engine parameters on the ignition delay**
 KÖTEN H., PARLAKYİĞİT A. S.
 FUEL, vol.216, pp.23-28, 2018 (Journal Indexed in SCI)
- XII. **THERMODYNAMIC INVESTIGATION OF ORGANIC RANKINE CYCLE ENERGY RECOVERY SYSTEM AND RECENT STUDIES**
 BOYDAK Ö., Ekmekci I., YILMAZ M., KÖTEN H.
 THERMAL SCIENCE, vol.22, no.6, pp.2679-2690, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Blades Optimization for Maximum Power Output of Vertical Axis Wind Turbine**
 Shoukat A. A. , Noon A. A. , Anwar M., Ahmed H. W. , Khan T. I. , KÖTEN H., Siddiqi M. U. R. , Sharif A.
 INTERNATIONAL JOURNAL OF RENEWABLE ENERGY DEVELOPMENT-IJRED, vol.10, no.3, pp.585-595, 2021 (Journal Indexed in ESCI)
- II. **Energy and exergy analysis of a combined system: cascade organic Rankine cycle and cascade refrigeration cycle**
 Rabah T., KÖTEN H., Fadhila B., Salma S., Mohamed H.
 JOURNAL OF THERMAL ENGINEERING, vol.7, no.5, pp.1139-1149, 2021 (Journal Indexed in ESCI)
- III. **NUMERICAL SIMULATION OF PRANDTL NUMBER EFFECT ON ENTROPY GENERATION IN A SQUARE CAVITY**
 Ferroudj N., KÖTEN H., Kachi S., Boudebous S.
 JOURNAL OF THERMAL ENGINEERING, vol.7, no.4, pp.1016-1029, 2021 (Journal Indexed in ESCI)
- IV. **Performance assessment of a solar powered hydrogen production system and its ANFIS model**
 Senthilraja S., Gangadevi R., KÖTEN H., Marimuthu R.
 HELIYON, vol.6, no.10, 2020 (Journal Indexed in ESCI)
- V. **Investigation of three organic fluids effects on exergy analysis of a combined cycle: Organic rankine cycle / vapor compression refrigeration**
 TOUAIBI R., Köten H., FEIDT M., Boydak O.
 Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, vol.52, no.2, pp.232-245, 2018 (Refereed Journals of Other Institutions)
- VI. **PERFORMANCE ANALYSIS OF A DIESEL ENGINE WITHIN A MULTI-DIMENSIONAL FRAMEWORK**
 KÖTEN H.
 JOURNAL OF THERMAL ENGINEERING, vol.4, no.4, pp.2075-2082, 2018 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effects of number of magnet in Halbach magnet system for producing homogeneous magnetic field**
Dogan N., Inci M., Bingolbali M., KÖTEN H.
5th International Workshop on Magnetic Particle Imaging (IWMPI), İstanbul, Turkey, 26 July 2015, pp.1
- II. **Comparison of four different airfoil profiles' effects on the turbine efficiency in a solar chimney power plant prototype by using CFD method**
Buyukluoglu O., KÖTEN H., YILMAZ M.
10th EAWE PhD Seminar on Wind Energy in Europe, Orleans, France, 28 October 2014, no.1, pp.21-27
- III. **A CFD STUDY AND GEOMETRICAL IMPROVEMENT ON HEAVY DUTY DIESEL ENGINE FOR ULTRA-LOW EMISSIONS**
Koten H., YILMAZ M. A. , GÜL M. A.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Vancouver, Canada, 12 - 18 November 2010, pp.1011-1021

Supported Projects

KÖTEN H., RAJA S., Project Supported by Higher Education Institutions, Nanofluid esaslı PVT sistemine entegre yeni hidrojen üretim sisteminin deneysel çalışmaları, 2020 - 2020

KÖTEN H., Project Supported by Higher Education Institutions, Aksiyal Bir Fan Parametrelerinin Çok Amaçlı Optimizasyonu, 2018 - 2018

KÖTEN H., Project Supported by Higher Education Institutions, İÇTEN YANMALI MOTOR PARAMETRELERİNİN PERFORMANS VE EMİSYON ÜZERİNDEKİ ETKİLERİNİN TEK BOYUTLU YAZILIM İLE İNCELENMESİ, 2017 - 2018

KÖTEN H., YILMAZ M., SOYHAN H., Project Supported by Higher Education Institutions, ETANOL-BENZİN YAKIT KARIŞIMININ OTTO MOTORDA İNCELENMESİ, 2017 - 2017

KÖTEN H., Project Supported by Other Official Institutions, Sanayi Ve Sağlık Uygulamalar İçin Magnet Tasarımı, 2013 - 2015

Scientific Consultations

TÜBİTAK - Yerli Elektrikli Araç Projesi, Scientific Consultancy, İstanbul Medeniyet Üniversitesi, Mühendislik, Makine Mühendisliği, Turkey, 2016 - 2017

Edit Congress and Symposium Activities

KAUST, Attendee, Jiddah, Saudi Arabia, 2017

Citations

Total Citations (WOS):23

h-index (WOS):4

Scholarships

2219, TUBİTAK, 2018 - 2019