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Learning Knowledge

Doctorate 2014 - 2018	Gazi University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği (Dr), Turkey
Postgraduate 2011 - 2014	Hacettepe University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey
Undergraduate 2006 - 2010	Hitit University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey

Certificates, Courses and Trainings

Vocational Course, 17.Ekserji ve Uygulamaları , Ankara Yıldırım Beyazıt University, 2020
Vocational Course, DergiPark ULAKBİM Dergi Sistemleri, TÜBİTAK ULAKBİM, 2016

Dissertations

Doctorate, Investigation of the fluid flow and heat transfer in narrow radiator channels, Gazi University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği (Dr), 2018
Postgraduate, Free vibration analysis of functionally graded micro beam with tapered cross section, Hacettepe University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2014

Academic Titles / Tasks

Associate Professor 2021 - Continues	Gazi University, Teknoloji Fakültesi, Otomotiv Mühendisliği
Assistant Professor 2021 - Continues	Gazi University, Teknoloji Fakültesi, Otomotiv Mühendisliği
Research Assistant PhD 2019 - 2021	Gazi University, Teknoloji Fakültesi, Otomotiv Mühendisliği

Research Assistant
2013 - 2018

Gazi University, Teknoloji Fakültesi, Otomotiv Mühendisliği

Research Assistant
2011 - 2013

Karamanoglu Mehmetbey University, Mühendislik Fakültesi, Makine Mühendisliği
Bölümü

Supported Projects

1. Özgören Y. Ö. , Solmaz H., İpci D., Aysal F. E. , Erdem M., Project Supported by Higher Education Institutions, BETA TİPİ BİR STİRLİNG MOTORUNDA REJENERATÖR UYGULAMALARI, 2016 - 2017
2. İpci D., Altın M., Karabulut H., TUBITAK Project, 3 Silindirli traktör motorunun titreşimlerinin incelenmesi (TürkTraktör-Fizibilite), 2016 - 2017

Awards

1. İpci D., Article award , Gazi Üniversitesi, July 2021
2. İpci D., Article Award, Gazi Üniversitesi, April 2019
3. İpci D., Article Award , Gazi Üniversitesi, April 2017
4. İpci D., Makina Mühendisliği Bölüm 2.liği, Hitit Üniversitesi, July 2010
5. İpci D., Mühendislik Fakültesi 2.liği, Hitit Üniversitesi, July 2010

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

1. **Prediction of performance and exhaust emissions of a CI engine fueled with multi-wall carbon nanotube doped biodiesel-diesel blends using response surface method**
Solmaz H., Ardebili S. M. S. , Calam A., Yılmaz E., İpci D.
Energy, vol.227, 2021 (Journal Indexed in SCI Expanded)
2. **Effect of nitrogen and hydrogen addition on performance and emissions in reactivity controlled compression ignition**
Bahrami S., Poorghasemi K., SOLMAZ H., CALAM A., İPCİ D.
Fuel, vol.292, 2021 (Journal Indexed in SCI Expanded)
3. **Modelling of performance, emission, and combustion of an HCCI engine fueled with fusel oil-diethylether fuel blends as a renewable fuel**
Safieddin Ardebili S. M. , SOLMAZ H., CALAM A., İPCİ D.
Fuel, vol.290, 2021 (Journal Indexed in SCI Expanded)
4. **Effects of the regenerator on engine performance of a rhombic drive beta type stirling engine**
AKSOY F., SOLMAZ H., ARSLAN M., Yılmaz E., İPCİ D., CALAM A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (Journal Indexed in SCI)
5. **Modeling and validation of crankshaft speed fluctuations of a single-cylinder four-stroke diesel engine**
Babagiray M., SOLMAZ H., İPCİ D., Aksoy F.
Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021 (Journal Indexed in SCI Expanded)
6. **Experimental investigation on the combustion, performance and exhaust emission characteristics of poppy oil biodiesel-diesel dual fuel combustion in a CI engine**

- Uyumaz A., Aydođan B., Yilmaz E., Solmaz H., Aksoy F., Mutlu İ., İpci D., Calam A.
FUEL, vol.280, 2020 (Journal Indexed in SCI)
7. **A review on higher alcohol of fusel oil as a renewable fuel for internal combustion engines: Applications, challenges, and global potential**
Ardebili S. M. S. , SOLMAZ H., İPCİ D., CALAM A., Mostafaei M.
FUEL, vol.279, 2020 (Journal Indexed in SCI)
 8. **Performance Enhancement of a Beta Type Rhombic Drive Stirling engine**
ÇINAR C., SOLMAZ H., İPCİ D., Yilmaz E., AKSOY F.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.17, no.13, pp.884-893, 2020 (Journal Indexed in SCI)
 9. **Thermodynamic analysis of a gamma-type stirling engine driven by Scotch Yoke mechanism**
İpci D.
INTERNATIONAL JOURNAL OF GREEN ENERGY, 2020 (Journal Indexed in SCI)
 10. **Thermodynamic-dynamic analysis of gamma type free-piston stirling engine charged with hydrogen gas as working fluid**
İPCİ D.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.17, no.12, pp.805-815, 2020 (Journal Indexed in SCI)
 11. **CONTROL OF COMBUSTION PHASE WITH DIRECT INJECTION TIMING FOR DIFFERENT INLET TEMPERATURES IN AN RCCI ENGINE**
SOLMAZ H., İPCİ D.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.40, no.2, pp.267-279, 2020 (Journal Indexed in SCI)
 12. **Thermodynamic and dynamic analysis of an alpha type Stirling engine and numerical treatment**
İPCİ D., KARABULUT H.
ENERGY CONVERSION AND MANAGEMENT, vol.169, pp.34-44, 2018 (Journal Indexed in SCI)
 13. **Thermodynamic and dynamic analysis of an alpha type Stirling engine with Scotch Yoke mechanism**
ALTIN M., OKUR M., İPCİ D., HALİS S., KARABULUT H.
ENERGY, vol.148, pp.855-865, 2018 (Journal Indexed in SCI)
 14. **A coupled thermodynamic and dynamic model of a three cylinder diesel engine: A novel approach for gas exchange process**
KARABULUT H., SOLMAZ H., İPCİ D.
APPLIED THERMAL ENGINEERING, vol.121, pp.750-760, 2017 (Journal Indexed in SCI)
 15. **Numerical solution of fully developed heat transfer problem with constant wall temperature and application to isosceles triangle and parabolic ducts**
KARABULUT H., İPCİ D., ÇINAR C.
APPLIED THERMAL ENGINEERING, vol.102, pp.115-124, 2016 (Journal Indexed in SCI)
 16. **Thermodynamic and dynamic modeling of a single cylinder four stroke diesel engine**
İPCİ D., KARABULUT H.
APPLIED MATHEMATICAL MODELLING, vol.40, pp.3925-3937, 2016 (Journal Indexed in SCI)
 17. **THE INVESTIGATION OF FULLY DEVELOPED FLOW AND HEAT TRANSFER IN RADIATOR AIR CHANNELS**
İPCİ D., KARABULUT H., Cinar V. C.
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.36, no.2, pp.119-133, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **Free Vibration Analysis of a Functionally Graded Micro-Beam with Tapered Cross Section**
İpci D., Yıldırım B.
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.9, no.2, pp.272-282, 2021 (National Refreed University Journal)

2. **Investigation on hydrodynamic characteristics of a Stirling regenerator matrix using porous media approach: a CFD study**
İpci D.
International Journal of Automotive Engineering and Technologies, vol.9, no.4, pp.171-177, 2020 (Refereed Journals of Other Institutions)
3. **A Comparative CFD Study of Side-view Mirror and Side-view Camera Usages on a City Bus**
İPCİ D.
International Journal of Automotive Science And Technology, vol.4, no.3, pp.138-143, 2020 (Refereed Journals of Other Institutions)
4. **Torsional vibration moment analysis of a three cylinder internal combustion engine**
KARABULUT H., İPCİ D.
International Journal of Vehicle Noise and Vibration, vol.14, no.2, pp.147-170, 2018 (Refereed Journals of Other Institutions)
5. **Dynamic and Thermodynamic Examination of a Two-Stroke Internal Combustion Engine**
İPCİ D., KARABULUT H.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISİ, vol.19, no.2, pp.141-154, 2016 (Journal Indexed in ESCI)
6. **Doğalgaz Yakıtlı HCCI Bir Motorda Hidrojen İlavesinin Yanma Karakteristikleri Üzerindeki Etkilerinin Nümerik Olarak İncelenmesi**
POLAT S., UYUMAZ A., İPCİ D., YÜCESU H. S. , SOLMAZ H., YILMAZ E.
Makine Teknolojileri Elektronik Dergisi, vol.12, no.2, pp.15-26, 2015 (Other Refereed National Journals)
7. **The Effects of iso propanol and n heptane Fuel Blends on HCCI Combustion Characteristics and Engine Performance**
İPCİ D., YILMAZ E., AKSOY F., UYUMAZ A., POLAT S., SOLMAZ H.
Makine Teknolojileri Elektronik Dergisi, vol.12, no.1, pp.49-56, 2015 (Other Refereed National Journals)
8. **BİR KARA TAŞIT MODELİ ETRAFINDAKİ AKIŞ YAPISININ SAYISAL OLARAK İNCELENMESİ**
İPCİ D., YILMAZ E., AYSAL F. E. , SOLMAZ H.
Makine Teknolojileri Elektronik Dergisi, vol.12, no.2, pp.51-64, 2015 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

1. **Şehir İçi Otobüslerde Farklı Tavan Profillerinin Sürüklenme Katsayısına Etkisinin İncelenmesi**
Aydm S. G. , Yıldırım M. R. , İpci D.
The 2nd International Symposium on Automotive Science and Technology (ISASTECH 2021), Ankara, Turkey, 8 - 10 September 2021, pp.1-8
2. **CFD Analysis of a Beta-Type Stirling Engine with Rhombic Mechanism in Adiabatic Conditions**
Arslan T. A. , Solmaz H., İpci D.
The 2nd International Symposium on Automotive Science and Technology (ISASTECH 2021), Ankara, Turkey, 8 - 10 September 2021, pp.1-8
3. **Comparison of the thermodynamic performance of a gamma type Stirling engine driven by the crank and the Scotch yoke mechanisms**
İpci D.
International Congress of Academic Research, 7 - 09 December 2020, pp.402-411
4. **Tek Silindirli Bir Dizel Motorunun Krank Mili Hız Dalgalanmalarının İncelenmesi**
ÇETİN O., İPCİ D., SOLMAZ H.
The 1st International Symposium on Automotive Science and Technology (ISASTECH 2019), Ankara, Turkey, 5 - 06 September 2019, pp.456-468
5. **Üçgen Kesitli Radyatör Hava Kanallarında Isı Transferinin Nümerik Olarak İncelenmesi**
İPCİ D., KARABULUT H.
9th International Automotive Technologies Congress, OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.1321-1327

6. **Tek Silindirli Dört Zamanlı Buji ile Ateşlemeli Rhombic Hareket İletim Mekanizmalı bir İçten Yanmalı Motorun Tasarımı ve Analizi**
SOLMAZ H., YILMAZ E., POLAT S., İPCİ D., VEZNEDAR F., OGUZ H., TOPRAK K., AKSOY F.
9th International Automotive Technologies Congress, OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.1796-1806
7. **Fuzel Yağının Buji ile Ateşlemeli bir Motorda Yanma Karakteristiklerinin ve Emisyonlarının İncelenmesi**
NACAĞ Ç., CALAM A., İPCİ D., YÜCESU H. S. , HALİS S., SOLMAZ H.
14th International Combustion Symposium (INCOS2018), Karabük, Turkey, 25 - 27 April 2018, pp.585-590
8. **Optimization of an Alpha Type Stirling Engine with Scotch Yoke Mechanism by Using Isothermal Nodal Approach**
HALİS S., İPCİ D., ALTIN M., OKUR M., KARABULUT H.
3rd INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Budapest, Hungary, 19 - 23 October 2017
9. **Thermodynamic and Dynamic Model of a Three Cylinder Diesel Engine**
İPCİ D., KARABULUT H.
International Engineering Research Symposium (UMAS 2017), Düzce, Turkey, 11 - 13 September 2017
10. **Nodal Thermodynamic and Dynamic Analysis of an Alpha Type Stirling Engine**
İPCİ D., KARABULUT H.
International Engineering Research Symposium (UMAS 2017), Düzce, Turkey, 11 - 13 September 2017
11. **Hava Fazlalık Katsayısı ve Püskürtme Zamanlamasının RCCI Motordaki Etkileri Üzerine Deneysel Bir Çalışma**
UYUMAZ A., BOZ F., ŞAHİN F., İPCİ D., YILMAZ E., SOLMAZ H.
6th International Vocational Schools Symposium (UMYOS 2017), Bosnia And Herzegovina, 18 - 20 May 2017, pp.141-151
12. **İndirgenmiş kimyasal kinetik mekanizma modeli kullanılarak HCCI motorda yanma başlangıcının belirlenmesi**
İPCİ D.
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
13. **An Investigation of Engine Performance and Exhaust Emissions of Diesel Emulsion Fuels Containing Water at Different Ratios**
YILMAZ E., POLAT S., UYUMAZ A., SOLMAZ H., İPCİ D.
1st International Conference on Engineering Technology and Applied Sciences, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.327-332
14. **Parabolik Radyatör Hava Kanallarında Tam Gelişmiş Akışta Konveksiyonun İncelenmesi**
İPCİ D., KARABULUT H.
1st International Conference on Engineering Technology and Applied Scienc, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.267-274

Courses

Fluid Mechanics II, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Heat Transfer, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Graduation Thesis, Undergraduate, 2019 - 2020, 2020 - 2021
Basic Computer Programming, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Fluid Mechanics I, Undergraduate, 2019 - 2020, 2020 - 2021
Vehicle Aerodynamics, Undergraduate, 2019 - 2020, 2020 - 2021
Linear Algebra, Undergraduate, 2019 - 2020, 2020 - 2021

Activities in Scientific Journals

Journal of Management Science & Engineering Research, Committee Member, 2018 - Continues

International Journal of Automotive Science and Technology, Committee Member, 2018 - Continues

Memberships / Tasks in Scientific Organizations

Society of Automotive Engineers Turkey, Member, 2016 - Continues, Turkey

UCTEA Chamber of Mechanical Engineers, Member, 2010 - Continues, Turkey

Mobility Activity

Erasmus Programme, Guest Researcher, Technische Universitaet München, Germany, 2016 - 2016

Erasmus Programme, Student Mobility, Univ.of Craiova, Romania, 2008 - 2009

Edit Congress and Symposium Activities

The 2nd International Symposium on Automotive Science and Technology, Session Moderator, Ankara, Turkey, 2021

Citations

Total Citations (WOS):113

h-index (WOS):7

Research Areas

Mechanical Engineering, Internal Combustion Engines, Engineering and Technology