

Res. Asst. GÖKHAN TÜCCAR

Personal Information

Email: gtuccar@cu.edu.tr

Web: <https://avesis.cu.edu.tr//gtuccar>

International Researcher IDs

ORCID: 0000-0003-3041-299X

Yoksis Researcher ID: 51610

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 2011 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2011

Undergraduate, Middle East Technical University, Faculty Of Engineering, Turkey 2003 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Biodiesel Production from Microalgae, Cukurova University, Makina Mühendisliği, Makina Mühendisliği, 2011

Research Areas

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

Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2009 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of vibration characteristics of a hydroxyl (HHO) gas generator installed diesel engine fuelled with different diesel-biodiesel blends**
Uludamar E., TOSUN E., Tuccar G., YILDIZHAN Ş., Calik A., YILDIRIM S., SERİN H., ÖZCANLI M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23352-23360, 2017 (SCI-Expanded)
- II. **Exergy analysis of an inter-city bus air-conditioning system**
TOSUN E., BİLGİLİ M., TUCCAR G., YAŞAR A. N., AYDIN K.
INTERNATIONAL JOURNAL OF EXERGY, vol.20, no.4, pp.445-464, 2016 (SCI-Expanded)

- III. **The Potential of Microalgal Biodiesel in Turkey**
TÜCCAR G., GÜNGÖR C., ULUDAMAR E., AYDIN K.
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.10, no.4, pp.397-403, 2015 (SCI-Expanded)
- IV. **Effect of nanoparticle additives on NOx emissions of diesel fuelled compression ignition engine**
ÖZGÜR T., TÜCCAR G., ULUDAMAR E., YILMAZ A. C., GUNGOR C., ÖZCANLI M., SERİN H., AYDIN K.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.7, no.4, pp.487-498, 2015 (SCI-Expanded)
- V. **Diesel engine emissions and performance from blends of citrus sinensis biodiesel and diesel fuel**
TÜCCAR G., TOSUN E., ÖZGÜR T., AYDIN K.
FUEL, vol.132, pp.7-11, 2014 (SCI-Expanded)
- VI. **Effect of diesel-microalgae biodiesel-butanol blends on performance and emissions of diesel engine**
TÜCCAR G., ÖZGÜR T., AYDIN K.
FUEL, vol.132, pp.47-52, 2014 (SCI-Expanded)
- VII. **Evaluation of methyl ester of microalgae oil as fuel in a diesel engine**
TÜCCAR G., AYDIN K.
FUEL, vol.112, pp.203-207, 2013 (SCI-Expanded)
- VIII. **Biodiesel Production From Tea Seed (Camellia Sinensis) Oil and its Blends With Diesel Fuel**
SERİN H., ÖZCANLI M., Gökçe M. K., Tüccar G.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.10, no.4, pp.370-377, 2013 (SCI-Expanded)
- IX. **Prediction of emissions of a diesel engine fueled with soybean biodiesel using artificial neural networks**
ÖZGÜR T., TÜCCAR G., ÖZCANLI M., AYDIN K.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.27, no.2, pp.301-312, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigations of Effects of Density and Viscosity of Diesel and Biodiesel Fuels on NOx and Other Emission Formations**
TÜCCAR G., TOSUN E., ULUDAMAR E.
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, vol.6, no.2, pp.81-85, 2018 (Peer-Reviewed Journal)
- II. **Investigations of Effects of Density and Viscosity of Diesel and Biodiesel Fuels on NOx and Other Emission Formations**
TÜCCAR G., TOSUN E., ULUDAMAR E.
Academic Platform Journal of Engineering and Science, vol.6, no.2, pp.81-85, 2018 (Peer-Reviewed Journal)
- III. **COMPARISON OF TRAFFIC DENSITIES AT DIFFERENT SIGNALIZATION TIMINGS IN ROUNDABOUTS**
ULUDAMAR E., TÜCCAR G.
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.7, no.1, pp.217-223, 2018 (Peer-Reviewed Journal)
- IV. **Hidrolik Kamyon Boşaltma Platformlarının Dizayn ve Analizi**
ULUDAMAR E., TÜCCAR G.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.4, pp.55-62, 2017 (Peer-Reviewed Journal)
- V. **Design and Analysis of Hydraulic Truck Unloading Platforms**
ULUDAMAR E., TÜCCAR G.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.32, no.4, pp.55-62, 2017 (Peer-Reviewed Journal)
- VI. **Optimization of Traffic Signalization Timings to Reduce Queue Length and Vehicle Delays: A Case Study in Çukurova University**
TÜCCAR G., ULUDAMAR E.
European Mechanical Science, vol.1, no.3, pp.89-92, 2017 (Peer-Reviewed Journal)

- VII. **Optimization of Fuel Inlet Port Geometry of an Air Assisted Diesel Injector**
TÜCCAR G., ULUDAMAR E., AYDIN K.
Advances in Automobile Engineering, vol.5, no.2, 2016 (Peer-Reviewed Journal)
- VIII. **Determination of Atomization Characteristics of a Diesel Injector**
TÜCCAR G., ÖZKAN G. M., AYDIN K.
Applied Mechanics and Materials, vol.799, pp.826-830, 2015 (Peer-Reviewed Journal)
- IX. **Biodiesel Production From Opium Poppy Oil and Determination of Its Effects on Engine Performance and Emissions of a Compression Ignition Engine**
TOSUN E., ULUDAMAR E., TÜCCAR G., YILMAZ A. C., AYDIN K.
The Journal of MacroTrends in Technology and Innovation???, vol.3, no.1, pp.1-8, 2015 (Peer-Reviewed Journal)
- X. **Possibility of Turkey to transit Electric Vehicle-based transportation**
TÜCCAR G., TOSUN E., ÖZCANLI M., AYDIN K.
INTERNATIONAL JOURNAL OF AUTOMOTIVE ENGINEERING AND TECHNOLOGIES, vol.2, no.2, pp.64-69, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effects of Fibre Orientations and Flow Channel Patterns on the Durability of Composite Bipolar Plates Used in PEMFCs**
DARICIK F., TOPCU A., TÜCCAR G., AYDIN K.
8th International Conference on Modeling Simulation and Applied Optimization, Manama, Bahrain, 15 - 17 April 2019
- II. **A Review on Composite Materials Usage in Bipolar Plates of Proton Exchange Membrane Fuel Cells (PEMFCs)**
TOPCU A., DARICIK F., TÜCCAR G.
3rd International Congress on Vocational and Technical Sciences, Gaziantep, Turkey, 21 - 22 June 2018, pp.3561-3567
- III. **Numerical Study on Improvement of Parallel (Straight) Flow Field Used in Fuel Cells**
TOPÇU A., DARICIK F., TÜCCAR G., AYDIN K.
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 21 - 22 June 2018, pp.3555-3560
- IV. **Comparison of diesel fuel atomization characteristics of hydrogen gas and air in a special injection device**
TÜCCAR G., YILDIRIM S., ÇALIK A., ULUDAMAR E., SERİN H., ÖZCANLI M., AYDIN K.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 October 2017
- V. **Effect of MgO Nanoparticulate additives on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine**
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.
19th International Conference on Researches in ScienceTechnology, 27 - 28 July 2017, pp.72-85
- VI. **Experimental Comparison of Vibration, Noise and Combustion Characteristics of Hydroxyl Gas (HHO) Enriched Foeniculum Vulgare Oil Biodiesel (FVB) and Diesel Fuel Blends**
TÜCCAR G.
2nd International Mediterrenian Science and Engineering Congress, 25 - 27 October 2017
- VII. **Effect of fuel properties of different biodiesels on exhaust emission formations**
TÜCCAR G.
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017, pp.1808
- VIII. **Emission and engine performance analysis of a diesel engine using hydrogen enriched pomegranate seed oil biodiesel**
TÜCCAR G., ULUDAMAR E.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.1023
- IX. **Effect of mgo nanoparticule additives on performance and exhaust emmissions of diesel fuelled**

compression ignition engine

ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.

19th International Conference on Researches in Science Technology (ICRST), Barcelona, Spain, 27 - 28 July 2017, pp.66-67

- X. **Performance, Emission and Efficiency Analysis of a Diesel Engine Operated with Diesel and Diesel-Ethanol (E20) Blend**
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.
19th International Conference on Researches in Science & Technology (ICRST), Barcelona, Spain, 27 - 28 July 2017, pp.1-9
- XI. **TRANSESTERIFICATION OF FOENICULUM VULGARE OIL TO PRODUCE BIODIESEL**
TÜCCAR G., ULUDAMAR E., ERKAN A.
3rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.506
- XII. **Optimization of traffic signalization timings to reduce queue length and vehicle delays a case study in Çukurova University**
TÜCCAR G., ULUDAMAR E.
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016, pp.1580-1584
- XIII. **Determination of Parking Lots and Pedestrian Way Effects on the Queue Length and Emission Values in the New Campus of Adana Science And Technology University**
ERKAN A., TÜCCAR G.
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016, pp.1580-1584
- XIV. **Investigation of the effects of viscosity and density of different biodiesels on exhaust emissions**
TÜCCAR G., ULUDAMAR E., YILDIZHAN Ş., TOSUN E., SERİN H., ÖZCANLI M.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016, pp.2750
- XV. **Biodiesel Production From Opium Poppy Oil and Determination of Its Effects on Engine Performance and Emissions of a Compression Ignition Engine**
TOSUN E., ULUDAMAR E., TÜCCAR G., YILMAZ A. C., AYDIN K.
The MacroJournals Conference on Medicine, Science, and Technology - Dubrovnik 2015, Dubrovnik, Croatia, 3 - 04 August 2015, vol.3, no.1, pp.1-8
- XVI. **Biodiesel Production From Opium Poppy Oil and Determination of Its Effects on Engine Performance and Emissions of a Compression Ignition Engine**
TOSUN E., ULUDAMAR E., TÜCCAR G., YILMAZ A. C., AYDIN K.
The MacroJournals Conference on Medicine, Science, and Technology - Dubrovnik 2015, Dubrovnik, Croatia, 3 - 04 August 2015, vol.3, no.1, pp.1-8
- XVII. **Determination of Atomization Characteristics of a Diesel Injector**
TÜCCAR G., ÖZKAN G. M., AYDIN K.
The 2nd International Conference on Sensors and Materials Manufacturing Science 2015, Paris, France, 17 - 18 January 2015, pp.7
- XVIII. **Determination of performance, emission, energetic and exergetic performance of a diesel engine.**
TOSUN E., ÖZGÜR T., TÜCCAR G., ÖZGÜR C., AYDIN K., ÖZCANLI M.
International Conference on Automotive and Vehicle Technologies 2014, İstanbul, Turkey, 16 - 18 October 2014, pp.243-251
- XIX. **Investigation of Engine Performance and Emission Characteristics of SI Engine Fuelled with Ethanol Blends by Numerical Simulation**
ÖZGÜR C., TOSUN E., ÖZGÜR T., TÜCCAR G., AYDIN K.
The 5th International Conference on Mechanical and Aerospace Engineering (ICMAE 2014), Madrid, Spain, 18 - 19 July 2014, pp.597
- XX. **Numerical Studies of Engine Performance, Emission and Combustion Characteristics of a Diesel Engine Fuelled with Hydrogen Blends**
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.
The 5th International Conference on Mechanical and Aerospace Engineering (ICMAE 2014), Madrid, Spain, 18 - 19 July 2014, pp.1-5

- XXI. **Investigation of Effects of Inlet Boundary Conditions on the Flow Behaviour in a Diesel Injector**
TÜCCAR G., ÖZGÜR T., TOSUN E., ÖZGÜR C., AYDIN K.
The 5th International Conference on Mechanical and Aerospace Engineering (ICMAE 2014), Madrid, Spain, 18 - 19 July 2014, pp.11-16
- XXII. **Numerical Studies of Engine Performance Emission and Combustion Characteristics of a Diesel engine Fueled with Hydrogen Blends**
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.
The 5. International Conference on Mechanical and Aerospace Engineering, 18 - 19 July 2014
- XXIII. **Investigation of Engine Performance and emission Characteristics of SI engine Fueled with Ethanol Blends by Numerical Simulation**
ÖZGÜR C., TOSUN E., ÖZGÜR T., TÜCCAR G., AYDIN K.
The 5. International Conference on Mechanical and Aerospace Engineering, 18 - 19 July 2014
- XXIV. **Experimental Investigation of Engine Performance and Emission Characteristics of a Diesel Engine Using Blends Containing Microalgae Biodiesel, n-Butanol and Diesel Fuel**
TÜCCAR G., ÖZGÜR T., YAŞAR A., AYDIN K.
5th International Conference on Environmental Science and Technology, Gdansk, Poland, 14 - 16 May 2014, pp.1-5
- XXV. **Numerical studies of engine performance, emission and combustion characteristics of a diesel engine fuelled with hydrogen blends**
ÖZGÜR T., TOSUN E., ÖZGÜR C., Tüccar G., AYDIN K.
5th International Conference on Mechanical and Aerospace Engineering, ICMAE 2014, Madrid, Spain, 18 - 19 July 2014, vol.1016, pp.582-586
- XXVI. **Investigation of engine performance and emission characteristics of SI engine fuelled with ethanol blends by numerical simulation**
ÖZGÜR C., TOSUN E., ÖZGÜR T., TÜCCAR G., AYDIN K.
5th International Conference on Mechanical and Aerospace Engineering, ICMAE 2014, Madrid, Spain, 18 - 19 July 2014, vol.1016, pp.597-601
- XXVII. **Investigation of effects of inlet boundary conditions on the flow behaviour in a diesel injector**
Tüccar G., ÖZGÜR T., TOSUN E., ÖZGÜR C., AYDIN K.
5th International Conference on Mechanical and Aerospace Engineering, ICMAE 2014, Madrid, Spain, 18 - 19 July 2014, vol.1016, pp.602-606
- XXVIII. **Improvement of Microalgae Biodiesel with Ricinus Communis Oil Biodiesel Addition**
TÜCCAR G., ÖZGÜR T., ÖZCANLI M., AYDIN K.
ICAMAME 2013 : International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, Bali, Indonesia, 30 - 31 October 2013, pp.1579-1583
- XXIX. **Çay çekirdeği camella sinensis biyodizelinin yakıt özelliklerinin incelenmesi**
TÜCCAR G., SERİN H., GÖKÇE M. K., ÖZGÜR T., ULUDAMAR E.
VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Turkey, 21 - 22 October 2011
- XXX. **Effect Of Nanoparticle Additives on NOx Emissions of Diesel Fueled Compression Ignition Engine**
ÖZGÜR T., TÜCCAR G., ULUDAMAR E., GÜNGÖR C., ÖZCANLI M., SERİN H., AYDIN K.
6 th International Ege Energy Symposium & Exhibition Proceedings, İzmir, Turkey, 28 - 30 June 2012, pp.308-317
- XXXI. **ÇAY ÇEKİRDEĞİ CAMELLIA SINENSIS BİYODİZELİNİN YAKIT ÖZELLİKLERİNİN İNCELENMESİ**
TÜCCAR G., SERİN H., GÖKÇE M. K., ÖZGÜR T., ULUDAMAR E., AYDIN K.
VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Turkey, 21 - 22 October 2011, pp.128-131
- XXXII. **Mikroalg (Chlorella Protothecodies) Biyodizelinin Yakıt Özelliklerinin İncelenmesi**
TÜCCAR G., Gökçe M. K., AYDIN K.
Anadolu Enerji Sempozyumu, Elazığ, Turkey, 22 - 24 June 2011, pp.294-301
- XXXIII. **Kanola Biyodizeli, Diizopropil Eter ve Motorin Karışımlarının Yakıt Özelliklerinin ve Motor Performans Değerlerinin İncelenmesi**
TÜCCAR G., ÖZGÜR C., DEMİRAY A., ABDULVAHİTOĞLU A., ÖZGÜR T., AYDIN K.
Yeni ve Yenilenebilir Enerji Kaynakları Enerji Yönetimi Sempozyumu, Kayseri, Turkey, 16 - 17 October 2009, pp.86-92

Metrics

Publication: 52

Citation (WoS): 404

Citation (Scopus): 532

H-Index (WoS): 7

H-Index (Scopus): 8