

## 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 Mediterranean 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 emissions 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**

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