

## Prof. KADİR AYDIN

### Personal Information

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### International Researcher IDs

ScholarID: [jYlGpZkAAAAJ](https://orcid.org/0000-0002-1583-9605)

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Publons / Web Of Science ResearcherID: G-4939-2018

ScopusID: 23388435300

Yoksis Researcher ID: 2558

### Education Information

Associate Degree, Ataturk University, Açıköğretim Fakültesi, Hukuk, Turkey 2014 - 2016

Doctorate, University of Liverpool, Engineering, Mechanical Engineering, United Kingdom 1989 - 1993

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1983 - 1986

Undergraduate, Cukurova University, Mühendislik-Mimarlık, Makina Mühendisliği, Turkey 1979 - 1983

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Turbulent Combustion in Spark Ignition Engines, University of Liverpool, Engineering, Mechanical Engineering, 1993

Postgraduate, Isı Pompalarının Teorik Modellenmesi, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 1986

### Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Alternative Energy Resources, Hydrogen Technologies and Fuel Cells , Engineering and Technology

### Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2022 - Continues

Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2001 - 2022

Associate Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1995 - 2001

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1993 - 1995

Research Assistant, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1983 - 1993

## Academic and Administrative Experience

Head of Department, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1994 - 2022

Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2012 - 2018

Cukurova University, Mühendislik-Mimarlık Fakültesi, Makina Mühendisliği, 2008 - 2012

Cukurova University, Beden Eğitimi Ve Spor Yüksekokulu, 2002 - 2005

Cukurova University, Cukurova Üniversitesi, 2002 - 2005

Cukurova University, Beden Eğitimi Ve Spor Yüksekokulu, Antrenörlük Eğitimi, 2001 - 2005

Cukurova University, Beden Eğitimi Ve Spor Yüksekokulu, 2000 - 2002

## Supervised Theses

AYDIN K., Production, Performance and Emission Studies of Municipal and Medical Waste Plastic Fuels and its Blends with Diesel, Postgraduate, Ç.Ün(Student), 2014

AYDIN K., Biodiesel Production from Microalgae, Postgraduate, G.Tüccar(Student), 2011

AYDIN K., Development of a Special Sidelifter for Transferring Containers between Railroad Freight Cars and Trailers, Postgraduate, E.Uludamar(Student), 2011

AYDIN K., Production of Waste Plastic Fuels and Investigations of Influence of Waste Plastic Fuels on Performance and Exhaust Emissions of Diesel Engine, Postgraduate, C.Güngör(Student), 2011

AYDIN K., Investigation of Nanoparticle Additives to the Biodiesel and Diesel Fuels for Improvement of the Performance and Exhaust Emissions in a Compression Ignition Engine, Postgraduate, T.Özgür(Student), 2011

AYDIN K., Performance and Emission Characteristics of Butanol and Gasoline Mixtures in a Spark Ignition Engine, Postgraduate, C.Çelikten(Student), 2010

AYDIN K., Determination of In-Cylinder The Flow Characteristics of Internal Combustion Engines using Five-Holes Pitot-Tube, Postgraduate, L.Kara(Student), 2010

AYDIN K., Design and Applications of Hydroxy (HHO) System, Postgraduate, A.Can(Student), 2010

AYDIN K., Investigation of New Oil Additives, Postgraduate, A.Yılmaz(Student), 2010

AYDIN K., Development of Biodiesel Production Process and Additives for Improvement of Diesel Performance and Emissions, Doctorate, M.Özcanlı(Student), 2009

AYDIN K., Performance and Exhaust Emission Characteristics of a CI Engine Fueled with Synthesized Fuel Blends, Doctorate, A.Abdülvahitoğlu(Student), 2009

AYDIN K., Designing of a Fuel Cell Vehicle (FCV), Postgraduate, H.Düzgün(Student), 2008

AYDIN K., Destek Vektör Makineleri Kullanılarak Sporunun Aerobik Performans Düzeyinin Tahmin Edilmesi, Postgraduate, M.Açıkkar(Student), 2007

AYDIN K., Statistical Analysis of Traffic Accidents in Gendarmerie Zones of Turkey between 2000 and 2005, Postgraduate, A.Şeker(Student), 2007

AYDIN K., Combustion Chamber Design with Computational Fluid Dynamic, Postgraduate, R.Akar(Student), 2005

AYDIN K., Effect of Oxygenate Additives into Gasoline for Improved Fuel Properties, Postgraduate, U.Yeni(Student), 2005

AYDIN K., A Study of Impeller-Diffuser Interaction in a Centrifugal Pump, Doctorate, A.Öztürk(Student), 2004

AYDIN K., Cyclic Pressure and Combustion Variations in Spark Ignition Engines?, Çukurova Üniversitesi, Postgraduate, A.Abdülvahitoğlu(Student), 2003

AYDIN K., The Effects of Magnetic Field Device on Fuel Economy and Emissions in Internal Combustion Engines, Postgraduate, M.Özcanlı(Student), 2003

AYDIN K., İçten Yanmalı Motorların Çevresel Etkilerinin Araştırılması, Doctorate, H.İbrahim(Student), 2002

AYDIN K., İçten Yanmalı Motorlarda Silindir içi Akış Karakteristiklerinin Belirlenmesi, Doctorate, A.Yaşar(Student), 2002

AYDIN K., Performance and Emission Characteristics of Diesel Engines Using Diesel Fuel, Vegetable Oil and Alcohol Blends, Postgraduate, A.Keskin(Student), 2000  
AYDIN K., Diesel Engine Combustion and Emission Modeling, Postgraduate, A.Bulca(Student), 2000  
AYDIN K., Metil Alkol-Benzin Karışımlarının Otto Motorlarda Performans ve Emisyona Etkisi, Postgraduate, Z.Karadurmuş(Student), 1996  
AYDIN K., Alternatif Yakıtların Otto Motorlarda Kullanılabilirliğinin, Motor Performansına ve Egzoz Emisyonlarına Etkilerinin Araştırılması, Postgraduate, Ö.Gizir(Student), 1995

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Laser powder bed fusion of Ti6Al4V using low-cost high efficiency 450 nm diode point melting**  
Aydin A., Cetin E., Erman S. C., Mumtaz K.  
Journal of Materials Research and Technology, vol.34, pp.2814-2827, 2025 (SCI-Expanded)
- II. **Experimental investigations on metallization in the surface modified additively manufactured plastic substrates using DC sputtering**  
Aktitiz İ., Darıcık F., Aydın A., AYDIN K.  
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2024 (SCI-Expanded)
- III. **Metallization of 3D Printed Polylactic Acid Polymer Structures via Radio-Frequency Sputtering**  
Aktitiz İ., Darıcık F., Aydın A., AYDIN K.  
Journal of Materials Engineering and Performance, 2024 (SCI-Expanded)
- IV. **Carbon nanotube (CNT) modified carbon fiber/epoxy composite plates for the PEM fuel cell bipolar plate application**  
Darıcık F., Topcu A., Aydın K., Çelik S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.48, pp.1090-1106, 2023 (SCI-Expanded)
- V. **The effect of the heater and the pump operation durations on the cold start performance of the coolant heating assisted PEM fuel cell application**  
Topcu A., AYDIN K., ÇELİK S.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, pp.23939-23962, 2022 (SCI-Expanded)
- VI. **Production of different metal oxide nanoparticle embedded polymer matrix composite structures by the additive manufacturing technology and investigation of their properties**  
Aktitiz İ., AYDIN K., DARICIK F., Topcu A.  
POLYMER COMPOSITES, vol.43, no.11, pp.7826-7835, 2022 (SCI-Expanded)
- VII. **Ground simulation of fuel cell/battery hybrid propulsion system for small unmanned air vehicles**  
Keiyinci S., Aydın K.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.93, no.5, pp.783-793, 2021 (SCI-Expanded)
- VIII. **EXPERIMENTAL STUDY OF FIRE SUPPRESSION FOR Li-ION ELECTRIC BATTERIES WITH H<sub>2</sub>O**  
Un C., AYDIN K., Garo J. P., Condone B., Gentileate M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.1, pp.790-801, 2021 (SCI-Expanded)
- IX. **Energy distribution analyses of an additional traction battery on hydrogen fuel cell hybrid electric vehicle**  
Tanc B., ARAT H. T., CONKER Ç., BALTACIOĞLU E., AYDIN K.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.49, pp.26344-26356, 2020 (SCI-Expanded)
- X. **Conceptual design analysis for a lightweight aircraft with a fuel cell hybrid propulsion system**  
ARAT H. T., Surer M. G., Gokpinar S., AYDIN K.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (SCI-Expanded)
- XI. **HHO enrichment of bio-diesohol fuel blends in a single cylinder diesel engine**  
Baltacioglu M. K., Kenanoglu R., Aydın K.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18993-19004, 2019 (SCI-Expanded)
- XII. **Overview of the next quarter century vision of hydrogen fuel cell electric vehicles**

- Tanc B., Arat H. T., Baltacioglu E., AYDIN K.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.20, pp.10120-10128, 2019 (SCI-Expanded)
- XIII. **Effects of hydrogenation of fossil fuels with hydrogen and hydroxy gas on performance and emissions of internal combustion engines**  
AYDIN K., Kenanoğlu R.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.30, pp.14047-14058, 2018 (SCI-Expanded)
- XIV. **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.  
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3, no.3, pp.51-61, 2017 (SCI-Expanded)
- XV. **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.  
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3, no.3, pp.72-85, 2017 (SCI-Expanded)
- XVI. **Experimental and artificial neural network approach of noise and vibration characteristic of an unmodified diesel engine fuelled with conventional diesel, and biodiesel blends with natural gas addition**  
Celebi K., Uludamar E., TOSUN E., YILDIZHAN Ş., AYDIN K., ÖZCANLI M.  
FUEL, vol.197, pp.159-173, 2017 (SCI-Expanded)
- XVII. **Estimation of Operational Parameters for a Direct Injection Turbocharged Spark Ignition Engine by Using Regression Analysis and Artificial Neural Network**  
TOSUN E., AYDIN K., MEROLA S. S., IRIMESCU A.  
THERMAL SCIENCE, vol.21, no.1, pp.401-412, 2017 (SCI-Expanded)
- XVIII. **ESTIMATION OF OPERATIONAL PARAMETERS FOR A DIRECT INJECTION TURBOCHARGED SPARK IGNITION ENGINE BY USING REGRESSION ANALYSIS AND ARTIFICIAL NEURAL NETWORK**  
TOSUN E., AYDIN K., MEROLA S. S., IRIMESCU A.  
THERMAL SCIENCE, vol.21, no.1, pp.401-412, 2017 (SCI-Expanded)
- XIX. **Comparison of linear regression and artificial neural network model of a diesel engine fueled with biodiesel-alcohol mixtures**  
TOSUN E., AYDIN K., BİLGİLİ M.  
ALEXANDRIA ENGINEERING JOURNAL, vol.55, no.4, pp.3081-3089, 2016 (SCI-Expanded)
- XX. **Experimental and regression analysis of noise and vibration of a compression ignition engine fuelled with various biodiesels**  
ULUDAMAR E., TOSUN E., AYDIN K.  
FUEL, vol.177, pp.326-333, 2016 (SCI-Expanded)
- XXI. **Vibration, noise and exhaust emissions analyses of an unmodified compression ignition engine fuelled with low sulphur diesel and biodiesel blends with hydrogen addition**  
ULUDAMAR E., YILDIZHAN Ş., AYDIN K., ÖZCANLI M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.26, pp.11481-11490, 2016 (SCI-Expanded)
- XXII. **Experimental comparison of pure hydrogen and HHO (hydroxy) enriched biodiesel (B10) fuel in a commercial diesel engine**  
Baltacioglu M. K., Arat H. T., ÖZCANLI M., AYDIN K.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.19, pp.8347-8353, 2016 (SCI-Expanded)
- XXIII. **Effect of using Hydroxy - CNG fuel mixtures in a non-modified diesel engine by substitution of diesel fuel**  
Arat H. T., Baltacioglu M. K., ÖZCANLI M., AYDIN K.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.19, pp.8354-8363, 2016 (SCI-Expanded)
- XXIV. **Experimental investigation of using 30HCNG fuel mixture on a non-modified diesel engine operated with various diesel replacement rates**  
Arat H. T., Baltacioglu M. K., AYDIN K., ÖZCANLI M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.4, pp.3199-3207, 2016 (SCI-Expanded)

- XXV. **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)
- XXVI. **Traffic accident reconstruction and an approach for prediction of fault rates using artificial neural networks: A case study in Turkey**  
YILMAZ A. C., Aci C., AYDIN K.  
TRAFFIC INJURY PREVENTION, vol.17, no.6, pp.585-589, 2016 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Investigation of Nanoparticle Additives to Biodiesel for Improvement of the Performance and Exhaust Emissions in a Compression Ignition Engine**  
ÖZGÜR T., ÖZCANLI M., AYDIN K.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.12, no.1, pp.51-56, 2015 (SCI-Expanded)
- XXX. **Engine Performance and Emission Characteristics of Plastic Oil Produced from Waste Polyethylene and Its Blends with Diesel Fuel**  
Gungor C., SERİN H., ÖZCANLI M., SERİN S., AYDIN K.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.12, no.1, pp.98-105, 2015 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Determination of effects of various alcohol additions into peanut methyl ester on performance and emission characteristics of a compression ignition engine**  
TOSUN E., YILMAZ A. C., ÖZCANLI M., AYDIN K.  
FUEL, vol.126, pp.38-43, 2014 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **Biodiesel Fuel Specifications: A Review**  
ÖZCANLI M., GÜNGÖR C., AYDIN K.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, no.7, pp.635-647, 2013 (SCI-Expanded)
- XXXVI. **Performance and Emission Studies of Castor Bean (Ricinus Communis) Oil Biodiesel and Its Blends with Diesel Fuel**  
ÖZCANLI M., SERİN H., Saribiyik O. Y., AYDIN K., SERİN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.34, no.19, pp.1808-1814, 2012 (SCI-Expanded)
- XXXVII. **Numerical simulation and experimental studies of a biogas fueled spark ignition engine**  
Ceper B., AYDIN K., AKANSU S. O., KAHRAMAN N.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.2, pp.599-610, 2012 (SCI-Expanded)
- XXXVIII. **Performance and exhaust emission characteristics of a CI engine fueled with synthesized fuel blends**  
Abdulvahitoglu A., AYDIN K.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.2, pp.699-710, 2012 (SCI-Expanded)

- XXXIX. **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)
- XL. **Ricinus Communis (Castor Oil) methyl ester as a natural additive for biodiesel fuels**  
 ÖZCANLI M., SERİN H., AYDIN K., SERİN S.  
 ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.27, no.2, pp.331-336, 2011 (SCI-Expanded)
- XLI. **BIODIESEL PRODUCTION FROM TEREBINTH (PISTACIA TEREBINTHUS) OIL AND ITS USAGE IN DIESEL ENGINE**  
 ÖZCANLI M., Keskin A., AYDIN K.  
 INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.8, no.5, pp.518-528, 2011 (SCI-Expanded)
- XLII. **Biodiesel Production from Ricinus Communis Oil and Its Blends with Soybean Biodiesel**  
 Saribiyik O. Y., ÖZCANLI M., SERİN H., SERİN S., AYDIN K.  
 STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.56, no.12, pp.811-816, 2010 (SCI-Expanded)
- XLIII. **Effect of hydroxy (HHO) gas addition on performance and exhaust emissions in compression ignition engines**  
 YILMAZ A. C., ULUDAMAR E., AYDIN K.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.20, pp.11366-11372, 2010 (SCI-Expanded)
- XLIV. **Numerical Analyses of Combustion Methane-Hydrogen Mixtures in Cylinder for Different Spark Timing**  
 Ceper B., KAHRAMAN N., Aydm K.  
 STROJARSTVO, vol.52, no.5, pp.559-567, 2010 (SCI-Expanded)
- XLV. **Effect of impeller-diffuser radial gap ratio in a centrifugal pump**  
 ÖZTÜRK A., AYDIN K., ŞAHİN B., Pinarbasi A.  
 JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.68, no.3, pp.203-213, 2009 (SCI-Expanded)
- XLVI. **Support vector machines for aerobic fitness prediction of athletes**  
 AÇIKKAR M., AKAY M. F., ÖZGÜNEN K. T., AYDIN K., KURDAK S. S.  
 EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.2, pp.3596-3602, 2009 (SCI-Expanded)
- XLVII. **Investigation of combustion characteristics and emissions in a spark-ignition engine fuelled with natural gas-hydrogen blends**  
 KAHRAMAN N., Ceper B., AKANSU S. O., AYDIN K.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.2, pp.1026-1034, 2009 (SCI-Expanded)
- XLVIII. **Using of cotton oil soapstock biodiesel-diesel fuel blends as an alternative diesel fuel**  
 Keskin A., Guerue M., Altiparmak D., AYDIN K.  
 RENEWABLE ENERGY, vol.33, no.4, pp.553-557, 2008 (SCI-Expanded)
- XLIX. **Effect of inlet port on the flow in the cylinder of an internal combustion engine**  
 Yasar A., Sahin B., Akilli H., Aydin K.  
 PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.220, no.1, pp.73-82, 2006 (SCI-Expanded)
- L. **Decomposition of turbulent velocity fields in an SI engine**  
 ERDİL A., KODAL A., Aydin K.  
 FLOW TURBULENCE AND COMBUSTION, vol.68, no.2, pp.91-110, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Comparative Simulation Analysis of Electric Vehicle Powertrains with Different Configurations Using AVL Cruise and MATLAB Simulink**  
 Aydin K., Taha Z.

New Energy Exploitation and Application, vol.3, no.1, pp.171-184, 2024 (Scopus)

- II. **Determination of Cellulosic Bioethanol Yield of Sweet Sorghum Genotypes Grown Under Cukurova Conditions**  
AKSOY M., ÇELİK A. E., DOK M., YÜCEL C., AYDIN K.  
Tekirdağ Ziraat Fakültesi Dergisi, vol.20, no.1, pp.61-70, 2023 (Scopus)
- III. **Comparative Analysis of Single, Double and Quad Electric Vehicle Powertrain Systems**  
TAHA Z., AYDIN K.  
International Journal of Automotive Science and Technology, vol.6, no.4, pp.324-330, 2022 (Scopus)
- IV. **Thermal Runaway and Fire Suppression Applications for Different Types of Lithium Ion Batteries**  
ÜN Ç., AYDIN K.  
VEHICLES, vol.3, no.3, pp.480-497, 2021 (ESCI)
- V. **Progress in carbon emission reduction technology in fossil fuel-based hydrogen production**  
KEİYİNCİ S., AYDIN K.  
ADVANCES IN ENVIRONMENTAL RESEARCH-AN INTERNATIONAL JOURNAL, vol.10, no.2, pp.147-163, 2021 (ESCI)
- VI. **Conceptual Design of Fuel Cell Based Hybrid Unmanned Air Vehicle**  
KEİYİNCİ S., AYDIN K.  
European Mechanical Science, vol.5, no.1, pp.14-20, 2021 (Peer-Reviewed Journal)
- VII. **Production of Biodiesel from in Vitro Grown Jojoba Calli Oil and a Comparison with Jojoba Biodiesel**  
ERGÜN Z., SERİN H., AYDIN K., BÜYÜKALACA S.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.36, no.2, pp.401-407, 2021 (Peer-Reviewed Journal)
- VIII. **Development of a prototype hydrogen vehicle**  
Yakaryılmaz A. C., Yildizhan Ş., Aktaş A. E., Baş O., Tosun E., Özgür T., Aydın K.  
International Journal of Automotive Engineering and Technologies, vol.9, no.4, pp.190-195, 2020 (Peer-Reviewed Journal)
- IX. **Noise and Exhaust Emission Characteristic of a Diesel Engine Fuelled with Natural Gas and Blends of Biodiesel and Diesel Fuels**  
ULUDAMAR E., AYDIN K., ÖZCANLI M.  
Karaelmas Science and Engineering Journal, vol.9, no.2, pp.244-252, 2019 (Peer-Reviewed Journal)
- X. **Bipolar Plaka Akış Alanları Üzerine Deneysel Çalışmalar**  
KOÇAK N. F., TOPCU A., AYDIN K., ÇELİK S., TOPCU M.  
Academic Perspective Procedia, vol.2, no.3, pp.730-739, 2019 (Peer-Reviewed Journal)
- XI. **PEM Yakıt Pili Bipolar Plakalarının Geleneksel ve Yenilikçi Üretim Teknikleri**  
TOPCU M., TOPCU A., AYDIN K., ÇELİK S., KOÇAK N. F.  
Academic Perspective Procedia, vol.2, no.3, pp.720-729, 2019 (Peer-Reviewed Journal)
- XII. **Mobilya Sektörü Özelinde Üç Boyutlu Yazıcılarla Tasarım ve Malzeme-Biçim-Üretim Yöntemi Üzerine İlişkisel Düşünme**  
ÖZDEMİR CANBOLAT T., AYDIN K.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.34, no.4, pp.181-191, 2019 (Peer-Reviewed Journal)
- XIII. **Experimental investigation of noise characteristic of a compression ignition engine**  
ULUDAMAR E., ÖZCANLI M., ÇELEBİ K., AYDIN K.  
EUROPEAN MECHANICAL SCIENCE, vol.3, no.3, pp.88-91, 2019 (Peer-Reviewed Journal)
- XIV. **Investigating the noise generation of a compression ignition engine at different filters**  
ULUDAMAR E., ÖZCANLI M., ÇELEBİ K., AYDIN K.  
European Mechanical Science, vol.3, no.3, pp.88-91, 2019 (Peer-Reviewed Journal)
- XV. **Noise and Exhaust Emission Characteristic of a Diesel Engine Fueled with Natural Gas and Blends of Biodiesel and Diesel Fuels**  
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Isı Bilimi ve Tekniği 5. Ulusal Kongresi, İstanbul, Turkey, 18 - 22 September 1986, pp.361-371

## Supported Projects

AYDIN K., TUBITAK Project, Farklı Tatlı Sorgum Genotiplerinin Çukurova ve GAP Bölgelerinde Biyo-etanol Üretim Potansiyellerinin Saptanması, 2015 - Continues

AYDIN K., ÜN Ç., Project Supported by Higher Education Institutions, Taşitlar İçin Yeni Nesil Otomatik Yangın Söndürme Sistemlerinin Geliştirilmesi, 2020 - 2021

AYDIN K., Project Supported by Higher Education Institutions, Manüel Metal İşleme Tezgahlarının CNC Tezgahlara Dönüştürülmesini Sağlayan Üniversal Dönüşüm Kitinin Geliştirilmesi, 2020 - 2021

AYDIN K., TEMEL S., ALTIN M. R., BOSTANCI Ö. F., Project Supported by Higher Education Institutions, PORTATİF TAŞINABİLİR YENİ NESİL VERİMLİ SIVI ISITICISI, 2018 - 2021

Çolak S., Halefoğlu Y. Z., Aydın K., Other International Funding Programs, Consultancy Services for Establishment and Operationalization of Innovation Centers, 2019 - 2020

ÖZGÜR T., TOSUN E., ÖZGÜR C., AYDIN K., Project Supported by Higher Education Institutions, Effect of MgO Nanoparticle Additive on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine, 2017 - 2018

AYDIN K., YILDIZHAN Ş., ÖZARSLAN H., Büyük N., KEİYİNCİ S., AKTAŞ A. E., ÜN Ç., Project Supported by Higher Education Institutions, Karada ve Havada Gidebilen Elektrikli Araç Prototipi Geliştirilmesi, 2017 - 2018

AYDIN K., Project Supported by Higher Education Institutions, Effects of Hydrogenation of Fossil Fuels with Hydroxy Gas on Performance and Emissions of Internal Combustion Engines, 2017 - 2017

AYDIN K., Project Supported by Higher Education Institutions, Hydroxy Gas (HHO) Addition to Fossil Fuels for Improved

Performance and Lower Emissions, 2016 - 2017

AYDIN K., AKAR M. A., KESKİN A., Project Supported by Higher Education Institutions, SCR Sisteminde Toluen ve Etil Alkol Karışımlarının İndirgeyici Olarak Kullanımının Deneysel Olarak Araştırılması, 2016 - 2017

AYDIN K., Project Supported by Higher Education Institutions, SCI Yayın Teşvik Desteği, 2016 - 2017

YILMAZ A. C., AYDIN K., Project Supported by Higher Education Institutions, Impact Velocity Prediction in a Traffic Accident, 2016 - 2017

AYDIN K., Project Supported by Higher Education Institutions, İçten Yanmalı Motorların Geliştirilmesi Çalışmaları, 2014 - 2017

AYDIN K., Ün Ç., SERİN H., Project Supported by Higher Education Institutions, Rehabilitation Studies of Old Landfill Area in Adana, Turkey, 2015 - 2016

AYDIN K., ÖZGÜR T., ELBAŞI H., Project Supported by Higher Education Institutions, İÇTEN YANMALI MOTORLARDA ATIK ISI ENERJİSİNİN GERİ DÖNÜŞTÜRÜLMESİ VE HİDROJEN DESTEKLİ YAKIT SİSTEMİNDE KULLANILMASI, 2015 - 2016

AYDIN K., Project Supported by Higher Education Institutions, Production, engine performance and emission studies of medical waste plastic fuel and its blends with diesel fuel, 2014 - 2015

AYDIN K., YILMAZ A. C., Project Supported by Higher Education Institutions, Trafik Kazası Yeniden Canlandırma Yazılımı Kullanarak Kazaya Karışanların Kusur Oranlarının Belirlenmesi (Determination of Defect Rates of Traffic Accident Involvements By Using Accident Reconstruction Tools), 2014 - 2015

AYDIN K., TUBITAK Project, Alternatif Yakıtlı CAI (Kontrollü Otomatik Ateşlemeli) Hibrit Motor Tasarımı ve Emisyonlar Üzerine Etkisinin Araştırılması, 2013 - 2015

AYDIN K., ÖZGÜR T., Project Supported by Higher Education Institutions, Alkol Katkılı Biyodizel ve Dizel Karışımlarının Yakıt Özelliklerinin Belirlenmesi, Motor Performans ve Emisyonlarına Etkilerinin İncelenmesi, 2013 - 2015

AYDIN K., ÖZCANLI M., Industrial Thesis Project, M3 Kategorisi Araçlar için AB Normlarına Uygun Düşük Maliyetli Egzoz Gazı Arıtma Sistemlerinin Geliştirilmesi, 2012 - 2014

AYDIN K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Otomotiv Mühendisliği Laboratuvarı Altyapı Projesi, 2009 - 2010

AYDIN K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yakıt Kalitesi Analiz Laboratuvarı Altyapı Projesi, 2003 - 2005

AYDIN K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Motorlarda Emme Strokunda Akış Karakteristiklerine Etki Eden Parametrelerin Yanma ve Egzoz Emisyonlarına Olan Etkilerinin İncelenmesi, 1998 - 2002

## Patent

Aydın K., Temel S., Altın M. R., Bostancı Ö. F., Portable Next Generation Efficient Liquid Heater, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR 2017 19711 B , Standard Registration, 2021

## Activities in Scientific Journals

International Journal of Fuels and Lubricants, Assistant Editor/Section Editor, 2012 - Continues

## Peer Reviews in Scientific Publications

International Journal of Hydrogen Energy, SCI Journal, February 2016

Fuel, SCI Journal, February 2015

International Journal of Hydrogen Energy, SCI Journal, January 2015

## Metrics

Publication: 311

Citation (WoS): 1343

Citation (Scopus): 2099

H-Index (WoS): 23

H-Index (Scopus): 26

## Congress and Symposium Activities

2nd International Conference and Exhibition on Automobile Engineering, Attendee, Valencia, Spain, 2016

1st International Conference on Smart Electric Vehicles and Vehicular Ad-Hoc Networks (SEVNET), Attendee, Bratislava, Slovakia, 2016

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Attendee, Adana, Turkey, 2016

IV. Automotive and Vehicle Technologies Conference (AVTECH'16), Attendee, İstanbul, Turkey, 2016

6th International Conference on Hydrogen Production, Attendee, Oshawa, Ontario, Canada, 2015

3rd International Conference on Sustainable Cities, Urban Sustainability and Transportation (SCUST '14), Attendee, İstanbul, Turkey, 2014

5th International Symposium on Energy from Biomass and Waste, Attendee, San Servolo, Venice, Italy, 2014

Fifth International Symposium on Energy from Biomass and Waste, Invited Speaker, Italy, 2014

## Scholarships

NATO-B2 Doktora Sonrası Araştırma Bursu, TÜBİTAK, 1998 - Continues

Yurtdışı Lisansüstü Eğitim Bursu, YOK, 1988 - Continues

Eğitim Bursu, Foundation, 1982 - Continues

## Non Academic Experience

Makoto Mühendislik Danışmanlık İth. İhr. San. ve Tic. Ltd. Şti., Şirket Sahibi ve Genel Müdürü

Makoto Mühendislik Danışmanlık İth. İhr. San. ve Tic. Ltd. Şti., Şirket Ortağı

State Economic Enterprise SEE, Çukurova Technopark, Management, General Manager

Çukurova Teknoloji Geliştirme Bölgesi Yönetici A.Ş., Yönetim Kurulu Başkanı

TÜBİTAK, TEYBED-USETEG Yürütme Komitesi Üyesi

Akşehir İsmet İnönü Endüstri Meslek Lisesi, Motor Teknisyeni