

Prof. MUSTAFA ATAKAN AKAR

Personal Information

Email: aakar@cu.edu.tr

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

Address: Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Otomotiv Mühendisliği Bölümü 01330 Sarıçam Adana

International Researcher IDs

ORCID: 0000-0002-0192-0605

Publons / Web Of Science ResearcherID: Q-2383-2015

Yoksis Researcher ID: 18362

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2003 - 2008

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1999 - 2003

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi , Makina Mühendisliği , Turkey 1995 - 1999

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Vortex control behind side-by-side cylinders in shallow waters, Cukurova University, Fen Bilimleri, Makina Mühendisliği, 2008

Postgraduate, Turbulent wakes generated by side-by side cylinders in shallow-water, Cukurova University, Fen Bilimleri, Makina Mühendisliği, 2003

Research Areas

Mechanical Engineering, Energy, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - Continues

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - 2018

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2015 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

1. Numerical investigation of crash behavior of vehicle side door beams under high-speed pole side impacts

Akar M. A., Kumlu U., Yıldızhan Ş.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, vol.237, no.14, pp.3408-3418, 2023 (SCI-Expanded)

- II. **Investigation on Flow Characteristics of Generic Car Body with Different Boundary Conditions**
Keiyinci S., Baş O., Akar M. A.
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, vol.1, no.1, pp.1-12, 2023 (SCI-Expanded)
- III. **Combined effects of hydrogen and TiO₂ nanoparticle additive on terebinth oil biodiesel operated diesel engine**
Çalık A., Tosun E., Akar M. A., Özcanlı M.
SCIENCE AND TECHNOLOGY FOR ENERGY TRANSITION (STET), vol.78, pp.1-6, 2023 (SCI-Expanded)
- IV. **Investigation of low-temperature performances of hybrid catalysts with different chain length OHC reductants.**
Keskin Z., Akar M. A.
Environmental technology, vol.43, pp.1927-1934, 2022 (SCI-Expanded)
- V. **Variation of spark plug type and spark gap with hydrogen and methanol added gasoline fuel: Performance characteristics**
Baş O., AKAR M. A., SERİN H., ÖZCANLI M., TOSUN E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.50, pp.26513-26521, 2020 (SCI-Expanded)
- VI. **Hydrogen enriched waste oil biodiesel usage in compression ignition engine**
AKAR M. A., KEKILLI E., BAŞ O., YILDIZHAN Ş., SERİN H., ÖZCANLI M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.18046-18052, 2018 (SCI-Expanded)
- VII. **Recent studies on hydrogen usage in Wankel SI engine**
ÖZCANLI M., BAŞ O., AKAR M. A., YILDIZHAN Ş., SERİN H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.18037-18045, 2018 (SCI-Expanded)
- VIII. **Investigation the Fuel Properties of Apricot Kernel Biodiesel and Diesel-Biodiesel Fuel Blends**
ÖZGÜR C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.
JOURNAL OF BIOTECHNOLOGY, vol.208, pp.30, 2018 (SCI-Expanded)
- IX. **Using HHO (Hydroxy) and hydrogen enriched castor oil biodiesel in compression ignition engine**
ÖZCANLI M., AKAR M. A., Çalik A., SERİN H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23366-23372, 2017 (SCI-Expanded)
- X. **Vortex shedding control on a bare cylinder using hexagonal perforated outer cylinder**
AKAR M. A., Kucuk M.
CANADIAN JOURNAL OF PHYSICS, vol.95, no.1, pp.69-84, 2017 (SCI-Expanded)
- XI. **Flow behavior downstream of two side-by-side circular cylinders in shallow water**
AKAR M. A., Oguz B., AKILLI H., ŞAHİN B.
CANADIAN JOURNAL OF PHYSICS, vol.94, no.10, pp.975-981, 2016 (SCI-Expanded)
- XII. **Performance and emission characteristics of compression ignition engine operating with false flax biodiesel and butanol blends**
AKAR M. A.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.2, 2016 (SCI-Expanded)
- XIII. **The Influence of Diesel Fuel-biodiesel-ethanol-butanol Blends on the Performance and Emission Characteristics of a Diesel Engine**
Keskin A., YAŞAR A. N., Resitoglu I., Akar M. A., Sugoşu I.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, no.19, pp.1873-1881, 2013 (SCI-Expanded)
- XIV. **Suppression of asymmetric flow behavior downstream of two side-by-side circular cylinders with a splitter plate in shallow water**
Oruc V., Akar M. A., AKILLI H., ŞAHİN B.
MEASUREMENT, vol.46, no.1, pp.442-455, 2013 (SCI-Expanded)
- XV. **Artificial neural network approaches for prediction of backwater through arched bridge**

constrictions

PINAR E., Paydas K., SEÇKİN G., AKILLI H., ŞAHİN B., Cobaner M., Kocaman S., AKAR M. A.
ADVANCES IN ENGINEERING SOFTWARE, vol.41, no.4, pp.627-635, 2010 (SCI-Expanded)

- XVI. **Qualitative and quantitative measurements of horseshoe vortex formation in the junction of horizontal and vertical plates**
ŞAHİN B., AKILLI H., Karakus C., AKAR M. A., Ozkul E.
MEASUREMENT, vol.43, no.2, pp.245-254, 2010 (SCI-Expanded)
- XVII. **Control of vortex shedding of circular cylinder in shallow water flow using an attached splitter plate**
AKILLI H., KARAKUŞ C., Akar A., ŞAHİN B., Tumen N. F.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.130, no.4, 2008 (SCI-Expanded)
- XVIII. **Flow characteristics of circular cylinders arranged side-by-side in shallow water**
Akıllı H., Akar A., Karakus C.
FLOW MEASUREMENT AND INSTRUMENTATION, vol.15, no.4, pp.187-197, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the under-vehicle plastic protection parts manufactured by core-back injection process in terms of strength and weight**
GÜLTEKİN Y., AKAR M. A., ALTINDAĞ A., DURAN D., KUMLU U.
International Journal of Automotive Engineering and Technologies, vol.12, no.4, pp.133-143, 2023 (Peer-Reviewed Journal)
- II. **Analysis of the wear and friction of brake pad added cashew and ulexite using ANSYS**
Akar M. A., Sugözü İ., Bilgi G., Kumlu U.
International Journal of Automotive Engineering and Technologies, vol.12, no.3, pp.83-91, 2023 (Peer-Reviewed Journal)
- III. **Base Bleed Flow Control Tool for Circular Cylinders with three Side-By-Side Arrangements in Shallow Water**
AKAR M. A., AKILLI H.
International Journal of Pioneering Technology and Engineering, vol.2, no.1, pp.128-134, 2023 (Peer-Reviewed Journal)
- IV. **TAŞIT AERODİNAMİĞİNDE KULLANILAN AHMED CİSMİNİN AKIŞ MODELİ İÇİN PRİZMATİK AĞ KATMANI OLUŞTURURKEN İZLENECEK STRATEJİ**
KEİYİNCİ S., AKAR M. A., BAŞ O., ÖZCANLI M.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.10, no.3, pp.776-785, 2022 (Peer-Reviewed Journal)
- V. **A Review on Biodiesel: From Feedstock to Utilization in Internal Combustion Engines**
Tosun E., Özcanlı M., Akar M. A.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.5, no.1, pp.417-428, 2022 (Peer-Reviewed Journal)
- VI. **Tensile and Morphological Properties of Waste Tire Rubber Granule/Polyester Polymer Matrix Composite**
YILDIZHAN Ş., Yel F., AKAR M. A., KUMLU U.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.3, 2022 (Peer-Reviewed Journal)
- VII. **Feasibility of a Composite Material Formed with a Waste Granular Rubber Tire on Racing Vehicle Aerodynamic Wings**
Karaçor B., Akar M. A., Özcanlı M., Serin H., Baş O.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.3, no.2, pp.26-31, 2020 (Peer-Reviewed Journal)
- VIII. **Reducing emissions of an SI engine by alternative spark plugs with hydrogen addition and variable compression ratio**
Baş O., Akar M. A., Serin H.

International Journal of Automotive Engineering and Technologies, vol.9, no.2, pp.94-104, 2020 (Peer-Reviewed Journal)

- IX. **PERFORMANCE OF AN SI ENGINE WITH DIFFERENT SPARK PLUGS, VCR AND H2 ADDITION**
BAŞ O., AKAR M. A., SERİN H., ÖZCANLI M.
Sigma Journal of Engineering and Natural Sciences, vol.38, no.4, pp.1951-1961, 2020 (ESCI)
- X. **Characterization of SCR Catalyst Based Ag-Nb-Pt**
KESKİN A., YAŞAR A., Zeycan K., AKAR M. A., REŞİTOĞLU İ. A., ÖZARSLAN H., AYDIN K.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.33, no.4, pp.9-16, 2018 (Peer-Reviewed Journal)
- XI. **Effect of Spark Plug Alteration on Performance Using Hydrogen Enriched Gasoline in Si Engine Under Various Loads and Compression Ratios**
BAŞ O., AKAR M. A., YILDIZHAN Ş., ÖZCANLI M., SERİN H.
EUROPEAN MECHANICAL SCIENCE, vol.2, pp.92-95, 2018 (Peer-Reviewed Journal)
- XII. **The effect of the splitter plates on flow characteristics that are vertically placed to the flow between side by side cylinders in shallow water**
AKAR M. A., AKILLI H., BAŞ O., Oğuz B., PINAR E., ŞAHİN B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.4, pp.582-585, 2018 (ESCI)
- XIII. **Altıgen Delikli Silindirin Geçirgenlik Oranının Silindir Arkasındaki Akış Bölgesine Etkisi**
AKAR M. A., BAŞ O., KÜÇÜK M.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.2, pp.79-86, 2016 (Peer-Reviewed Journal)
- XIV. **Control of flow structure in the wake region of circular cylinder with meshy wire in deep water**
Oğuz B., AKAR M. A., PINAR E., AKILLI H., ŞAHİN B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.22, no.4, pp.280-284, 2016 (ESCI)
- XV. **Control of Vortex Shedding around a Circular Cylinder by Using Mesh Wire**
OĞUZ B., AKAR M. A., PINAR E., AKILLI H., ŞAHİN B.
Control of Vortex Shedding around a Circular Cylinder by Using Mesh Wire, vol.1, no.7, pp.18-26, 2015 (Peer-Reviewed Journal)
- XVI. **Control of Vortex Shedding around a Circular Cylinder by Using Meshy Wire**
Oğuz B., AKAR M. A., PINAR E., AKILLI H., ŞAHİN B.
International Journal of Scientific and Technological Research, vol.1, no.7, pp.18-26, 2015 (Peer-Reviewed Journal)
- XVII. **Silindir Arkasındaki Daimi Olmayan Akış Yapısının Pasif Yöntemle Kontrolü**
AKAR M. A., küçük m.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.20, no.4, pp.123-128, 2014 (Peer-Reviewed Journal)
- XVIII. **Silindir Arkasındaki Akış Yapısının Delikli Silindirlerle Pasif Kontrolü**
KÜÇÜK M., AKAR M. A.
Makine Teknolojileri Elektronik Dergisi, vol.10, no.1, pp.35-42, 2013 (Peer-Reviewed Journal)
- XIX. **Sığ Suda Yanyana Sıralı İki Silindir Arkasındaki Daimi Olmayan Akış Yapısının İncelenmesi**
AKAR M. A., AKILLI H., ŞAHİN B.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.26, no.2, pp.99-104, 2011 (Peer-Reviewed Journal)
- XX. **Sığ Suda Yan Yana Sıralı İki Silindir Arkasında Oluşan Akış Yapısının Pasif Yöntemle Kontrolü**
AKAR M. A., AKILLI H.
Ç.Ü. Fen Bilimleri Enstitüsü, vol.19, no.3, pp.20-24, 2008 (Peer-Reviewed Journal)
- XXI. **Akışkanlar Mekaniği Uygulamalarında Parçacık Görüntülemeli Hız Ölçme Tekniği**
ŞAHİN B., AKILLI H., ÖZTÜRK N. A., KARAKUŞ C., KAHRAMAN A., AKAR M. A., YANIKTEPE B., ÖZALP C.
Ç.Ü. Müh. Mim. Fak. Dergisi, vol.18, no.18, pp.103-111, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Ballistic evaluation of armor plates at different angles**
Kumlu U., Akar M. A., Başer D., Hükümdar Ö., Karaçor B.
2nd International Congress on Multidisciplinary Natural Sciences, Ankara, Turkey, 01 December 2022, pp.230-240
- II. **The Usage of Natural Fibers for Automotive Applications**
AKAR M. A., Tosun A. T., Yel F., KUMLU U.
5th International Conference on Design and Technologies for Polymeric and Composites Products (POLCOM), Bucharest, Romania, 24 - 27 November 2021, vol.404
- III. **Potential of Using Agricultural Waste Composites as Thermal Insulation Material**
SERİN H., GÜZEL G., KUMLU U., AKAR M. A.
5th International Conference on Design and Technologies for Polymeric and Composites Products (POLCOM), Bucharest, Romania, 24 - 27 November 2021, vol.404
- IV. **Recycled Waste Tyre Granules as Filler Material in Polymer Matrix: Mechanical Characterization Assessment**
Yel F., Akar M. A., Kumlu U.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.310
- V. **Crashworthiness Analysis of Vehicle Side Door Beam with Finite Element Analysis**
Kumlu U., Akar M. A., Özcanlı M., Serin H., Çalık A.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.615
- VI. **Evaluation of Jute and Cotton Fabrics as Reinforcement Agent in Polymer Matrix Composites**
Tosun A. T., Akar M. A., Kumlu U.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.311
- VII. **Taşıt Aerodinamiği Araştırmalarında Daha Gerçekçi bir Model: DrivAer**
Baş O., Akar M. A., Özcanlı M., Serin H., Keiyinci S.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.370
- VIII. **A Study to Investigate The Effect of Dimpled Surfaces and Linking Tunnels on Ahmed Car Model Flow Characteristics**
Aydın V. K., Akar M. A., Baş O., Özcanlı M., Keiyinci S.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.155
- IX. **Assessment of Hydrogen Utilization in Compression Ignition Engines as a Sustainable Fuel: An Overview**
Tosun E., Özcanlı M., Akar M. A., Özgür T., Serin H.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.448
- X. **Numerical Investigations of Curved Slanted Surface on the Ahmed Body**
Akar M. A., Oran A. H., Özcanlı M., Baş O.
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.307
- XI. **Comparison of stainless steel and ultra-high strength steel usage as a piston head material in internal combustion engines**
Özcanlı M., Akar M. A., Karaçor B.
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.254-258
- XII. **A Short Review on Water Emulsified Fuel Effects on Engine Performance and Emission Characteristics**

Tosun E., Özcanlı M., Özgür T., Akar M. A., Serin H.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.374-378

XIII. Influence of Hybrid Catalysts on SCR Systems

Akar M. A., Keskin Z.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.464

XIV. Computational Fluid Dynamics Analysis and Optimization of Geometric Modifications of a Model Land Vehicle (Ahmed Body)

Akar M. A., Vural B., Özcanlı M., Baş O.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.787-790

XV. Simulation of Friction and Wear Behavior of Colemanite and Borax Reinforced Brake Pads

Yaşar G., Bilgi G., Akar M. A., Sugözü İ., Özcanlı M.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.359

XVI. A Benchmark Study for Front Wing Design of a Formula Student Race Car

Özcanlı M., Akar M. A., Baş O.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.310

XVII. A Review on Design Characteristics of Speed Breaker Systems and New Trends

Akar M. A., Yel F., Yıldırım A. T., Tosun E., Özcanlı M.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.311

XVIII. Advanced steel usage as a crankshaft materials in internal combustion engines; A case study

Karaçor B., Özcanlı M., Akar M. A.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.240-244

XIX. A Literature Review of Ignition System and Spark Plug Studies

AKAR M. A., BAŞ O.

2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019

XX. Ultra-high strength steel usage in a sedan car chassis: A theoretical study

Özcanlı M., Karaçor B., Akar M. A., Serin H.

4th International Symposium the Environment and the Industry, SIMI 2019, Bucuresti, Romania, 25 - 27 September 2019, pp.56-57

XXI. Recycled composite usage for race car wing production: Effect of the surface roughness on aerodynamics

Akar M. A., Karaçor B., Özcanlı M., Serin H.

4th International Symposium the Environment and the Industry, SIMI 2019, Bucuresti, Romania, 25 - 27 September 2019, pp.55

XXII. Ahmed Body Drag Reduction by Usage of Dimpled and Bumped Surface

AKAR M. A., Aydın V. K., BAŞ O., ÖZCANLI M.

4th International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 April 2019, pp.864-869

XXIII. Analysis of Wear and Friction Using ANSYS of Brake Pad Added Cashew and Ulexit

AKAR M. A., SUGÖZÜ İ., BİLGİ G., ÖZCANLI M.

4th International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 April 2019, pp.1206-1208

XXIV. Ag-Cu-Nb/Kordiyerit HC-SCR Katalizör Üretimi ve Analizi

AKAR M. A., Keskin Z.

4th International Mediterranean Science and Engineering Congress, 25 - 27 April 2019

XXV. Variation of Spark Plug and Spark Gap Size with Hydrogen and Ethanol Added Gasoline Fuel:

Performance Characteristics

BAŞ O., AKAR M. A., SERİN H., ÖZCANLI M.

4th International Mediterranean Science and Engineering Congress, 25 - 27 April 2019

- XXVI. **Ag-Ti-Cu/ Kordiyerit Katalizör Üretimi ve Karakterizasyon Analizi**
AKAR M. A., Keskin Z.
4th International Mediterranean Science and Engineering Congress, 25 - 27 April 2019
- XXVII. **Drag Coefficient Reduction Studies on Ahmed Body: A Review**
AKAR M. A., Vural B., Çalik a., SERİN H., ÖZCANLI M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.1199-1204
- XXVIII. **Applications of Shear Thickening Fluids (STFs) and Preparation : A Review**
AKAR M. A., YILDIRIM A. T., ÇALIK A., ÖZCANLI M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.881-883
- XXIX. **Comparison of St-52 steel and ultra-high strength steel as a of pipe type chassis material for formula student race car**
Karaçor B., Özcanlı M., Akar M. A., Yıldızhan Ş., Serin H.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.671-674
- XXX. **Manufacturing Methods of Polymer Matrix Composites: A Brief Review of Techniques Convenient for Mass Production**
YILDIZHAN Ş., AKAR M. A., ÖZCANLI M., SERİN H.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.395-399
- XXXI. **SCR Sistemine Yönelik Ti-V-Mo/Kordiyerit Katalizörünün Üretimi ve Karakterizasyonu**
AKAR M. A., Keskin Z.
International Mediterranean Science and Engineering Congress, 24 - 26 October 2018
- XXXII. **Etanolun İndirgeyici Olarak Kullanımının SCR Sisteminde NOx Dönüşümüne Olan Etkisi**
AKAR M. A., Keskin Z.
International Mediterranean Science and Engineering Congress, 24 - 26 October 2018
- XXXIII. **Effect of bioethanol blending with gasoline on emissions characteristics with spark plug alteration for SI engine**
AKAR M. A., BAŞ O., ÖZGÜR T., ÖZCANLI M.
European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280
- XXXIV. **Micro hardness and water absorption properties of Cotton/Epoxy Bio-Composite**
SERİN H., YILDIZHAN Ş., ÖZCANLI M., AKAR M. A.
European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280
- XXXV. **Investigation the fuel properties of apricot kernel biodiesel and diesel-biodiesel fuel blends**
Ozgur C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.
European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280
- XXXVI. **Energy and Exergy Analysis 1kW Self-humidified PEM Fuel Cell**
ÖZGÜR T., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZCANLI M.
3 rd International Hydrogen Technologies Congress (IHTEC 2018), 15 - 18 March 2018
- XXXVII. **Energy and Exergy Analysis of 1 kW Self-humidified PEM Fuel Cell**
ÖZGÜR T., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZCANLI M.
3rd International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018, pp.106
- XXXVIII. **A case study of energy efficiency in annealing furnaces**
AKAR M. A., ÇERÇİ K. N., YILDIRIM A., SÖYLER M., GÜNEŞER G.
International Advanced Reseaches and Engineering Congress (IAREC 17), Turkey, 16 - 18 October 2017
- XXXIX. **Nano-Metal Katalizör Katkılarının Üç Yollu Katalitik Konvertörün (TWC) Karbon Monoksit (CO) Oksitlemesine Etkileri**

AKAR M. A., ÇALIK A., BAŞ O., YILDIZHAN Ş.

IV. ULUSAL MÜHENDİSLİK KONGRESİ, Afyon, Turkey, 22 - 25 December 2017, pp.20

- XL. **Recent studies on hydrogen usage n rotary SI engine**
ÖZCANLI M., BAŞ O., AKAR M. A., YILDIZHAN Ş., SERİN H.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.2279
- XLII. **Effect of Hydrogen Enriched Nigella Sativa Oil Biodiesel on Performance and Emissions**
SERİN H., YILDIZHAN Ş., BAŞ O., AKAR M. A., ÖZCANLI M.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.2277
- XLIII. **Hydrogen Enriched Waste Oil Biodiesel Usage n Compression Ignition Engine**
AKAR M. A., Kekilli E., BAŞ O., YILDIZHAN Ş., SERİN H., ÖZCANLI M.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.2278
- XLIII. **Hydrogen Enriched Waste Oil Biodiesel Usage in Compression Ignition Engine**
AKAR M. A., Kekilli E., BAŞ O., YILDIZHAN Ş., SERİN H., ÖZCANLI M.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 October 2017
- XLIV. **Recent Studies on hydroegn usage in rotary SI engine**
ÖZCANLI M., BAŞ O., AKAR M. A., YILDIZHAN Ş., SERİN H.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 October 2017
- XLV. **Ti-V-Cu Esaslı SCR Sistem Katalizör Üretimi ve Karakterize Edilmesi**
AKAR M. A., Keskin Z.
2nd International Mediterranean Science and Engineering Congress, Turkey, 25 - 27 October 2017
- XLVI. **Gümüş-Niyobyum Esaslı HC-SCR Sistem Katalizör Sentezi ve Karakterizasyonu**
AKAR M. A., Keskin Z.
2nd International Mediterranean Science and Engineering Congress, Turkey, 25 - 27 October 2017
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AKAR M. A., AKILLI H., BAŞ O., PINAR E., Oğuz B., ŞAHİN B.
International Conference for Academic Disciplines (IJAS-Sicily 2017), Katanya, Italy, 29 May - 01 June 2017, vol.10, no.2, pp.249-250
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1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.19
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European Biotechnology Conference, Latvia, 5 - 07 May 2016, vol.231
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European biotechnology congress, Riga, Latvia, 5 - 07 May 2016
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8th International Ege Energy Symposium, Turkey, 11 - 13 May 2016
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- AKAR M. A., YILMAZ A., BAŞ O., KESKİN A.
European biotechnology congres, Latvia, 5 - 07 May 2016
- LXX. **Performance and exhaust emissions of diesel engine fuelled with Fusel oil**
AKAR M. A., YILMAZ A., BAŞ O.
European Biotechnology, 5 - 07 May 2016
- LXXI. **Performance and exhaust emissions of diesel engine fueled with fusel**
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European Biotechnology Conference (Latvia), 5 - 07 May 2016
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International Conference on Sustainable Development, 12 - 15 November 2015
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ICSD International Conference on Sustainable Development, 12 - 15 November 2015
- LXXIV. **PERFORMANCE AND EMISSION CHARACTERISTICS OF VARIABLE COMPRESSION RATIO ENGINE FUELLED WITH DIESEL-BUTANOL AND CORN BIODIESEL-BUTANOL BLENDS**
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IV. Ulusal Havacılık ve Uzay Konferansı, Turkey, 12 - 14 September 2012, vol.4
- LXXVI. **Sığ Suda Yan Yana Sıralı İki Silindir Arkasında Oluşan Akış Yapısının Pasif Yöntemle Kontrolü**
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16. Ulusal Isı Bilim ve Tekniği Kongresi, Turkey, 30 May - 02 June 2007, vol.16
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16. Ulusal Isı Bilim ve Tekniği Kongresi, Turkey, 30 May - 02 June 2007, vol.16
- LXXVIII. **Delikli Silindir Arkasında Oluşan Akış Yapısının Sığ Suda İncelenmesi**
PAYDAŞ K., AKAR M. A., KARAKUŞ C., AKILLI H., ŞAHİN B.
16. Ulusal Isı Bilim ve Tekniği Kongresi, Turkey, 30 May - 02 June 2007, vol.16
- LXXIX. **Sığ Suda Silindir Ardında Oluşan Girdap Yapısının Plaka Yardımıyla Kontrolü**
AKILLI H., KARAKUŞ C., AKAR M. A., ŞAHİN B.
1. Ulusal Havacılık ve Uzay Konferansı, Turkey, 21 - 23 September 2006, vol.1
- LXXX. **Küre Etrafındaki Akış Yapısının Parçacık Görüntülemeli Hız Ölçme Yöntemiyle İncelenmesi**
ÖZGÖREN M., ŞAHİN B., AKILLI H., KARAKUŞ C., YAYLA S., ÖZTÜRK N. A., AKAR M. A.
1. Ulusal Havacılık ve Uzay Konferansı, Turkey, 21 - 23 September 2006, vol.1
- LXXXI. **Sığ Suda Yan Yana Dizili Silindirler Arkasında Oluşan Girdabın Plakalar Yardımıyla Kontrol Edilmesi**
AKAR M. A., AKILLI H., ŞAHİN B.
GAP V. Mühendislik Kongresi Bildiriler Kitabı, Turkey, 26 - 28 April 2006, vol.5
- LXXXII. **Düşük Açıklık Oranlarında Yan Yana Dizili Silindirler Arasında Oluşan Akış Yapısının İncelenmesi Sığ Su Uygulaması**
AKILLI H., ŞAHİN B., AKAR M. A., ÖZALP C.
15. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 7 - 09 September 2005, vol.15

Other Publications

I. YARIŞ ARABASI KANAT ÜRETİMİ İÇİN GERİ DÖNÜŞTÜRÜLEBİLEN KOMPOZİT KULLANIMI: YÜZEY PÜRÜZLÜLÜĞÜNÜN AERODİNAMİĞE ETKİSİ

Akar M. A., Karaçor B., Özcanlı M., Serin H.

Other, pp.55, 2019

Supported Projects

- AKAR M. A., ÖZGÜR T., Vural B., Project Supported by Higher Education Institutions, Bir Model Kara Taşıtının (Ahmed Body) Geometrik Modifikasyonlarının Hesaplamalı Akışkanlar Dinamiği Analizi ve Optimizasyonu, 2020 - 2021
- AKAR M. A., KARAÇOR B., Project Supported by Higher Education Institutions, Atık Lastik Granül Tabanlı Kompozit Malzemenin Yarış Aracı Aerodinamik Kanatlarında Kullanımının Araştırılması, 2019 - 2020
- AKAR M. A., SERİN H., YILDIZHAN Ş., BAŞ O., ÖZCANLI M., Project Supported by Higher Education Institutions, Farklı yük ve sıkıştırma oranları altında hidrojen ile zenginleştirilmiş benzinli motorda farklı tip ateşleme bujilerinin motor performans ve emisyon değerlerine etkisi, 2018 - 2020
- AKAR M. A., Project Supported by Higher Education Institutions, Farklı buji tipleriyle çalıştırılan benzinli motorda yakıt eklenen katkı maddelerinin etkilerinin incelenmesi, 2017 - 2018
- AKAR M. A., BAŞ O., ÖZCANLI M., KESKİN A., SERİN H., Project Supported by Higher Education Institutions, A review on performance and emission characteristics of biodiesel produced from animal fat, 2017 - 2017
- SERİN H., ÖZCANLI M., AKAR M. A., ÇALIK A., Project Supported by Higher Education Institutions, 2st International Mediterranean Science and Engineering Congress IMSEC 2017, 2017 - 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
- ÖZCANLI M., SERİN H., ÇALIK A., AKAR M. A., Project Supported by Higher Education Institutions, 1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 2016 - 2017
- AKAR M. A., BAŞ O., AKILLI H., Project Supported by Higher Education Institutions, Yan Yana Sıralı Silindirler Arasında Yerleştirilen Plakların Akış Yapısına Olan Etkisinin İncelenmesi, 2016 - 2017
- KESKİN A., AKAR M. A., Project Supported by Higher Education Institutions, Investigation of alternative fuel properties of fusel oil, 2016 - 2016
- AKAR M. A., KESKİN A., Project Supported by Higher Education Institutions, Performance and exhaust emissions of diesel engine fueled with Fusel Oil, 2016 - 2016
- AKAR M. A., SERİN H., Project Supported by Higher Education Institutions, Performance and Emission Characteristics of Variable Compression Ratio Engine Fuelled with DieselButanol and Corn BiodieselButanol Blends, 2015 - 2016

Metrics

Publication: 127

Citation (WoS): 305

Citation (Scopus): 387

H-Index (WoS): 7

H-Index (Scopus): 8