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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAR-9268-2020

ScopusID: 960911

Yoksis Araştırmacı ID: 229980

Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Türkiye 2016 - 2022

Yüksek Lisans, Niğde Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Türkiye 2013 - 2015

Lisans, Niğde Üniversitesi, Türkiye 2008 - 2013

Yaptığı Tezler

Doktora, GENLİK MODÜLASYONLU DALGALI GEOMETRİYE SAHİP UÇAK KANADININ AERODİNAMİK PERFORMANSININ DENEYSEL İNCELENMESİ, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2022

Yüksek Lisans, BUJİ PLAZMA SENTETİK JET AKTÜATÖRÜNÜN PEM YAKIT PİLİ PERFORMANSI ÜZERİNE ETKİSİNİN İNCELENMESİ, Niğde Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2015

Araştırma Alanları

Makina Mühendisliği, Enerji, Akışkanlar Mekaniği , Hidrojen teknolojileri ve yakıt hücreleri, Rüzgar Enerjisi, Havacılık ve Uzay Mühendisliği, Havacılık Mühendisliği, Uçuş Bilimleri, Aerodinamik , Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Devam Ediyor
Araştırma Görevlisi Dr., Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2015 - 2023

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Optimization of aerodynamic drag reduction for truck trailer model via machine learning
SEYHAN M., ES H. A., SARIOĞLU M.
MEASUREMENT, cilt.240, 2025 (SCI-Expanded)
- II. Aerodynamic characteristics and flow topology of tapered symmetrical airfoil equipped with Clark-Y shaped vortex generators

- SEYHAN M.
Physics of Fluids, cilt.37, sa.1, 2025 (SCI-Expanded)
- III. The effects of the location of the leading-edge tubercles on the performance of horizontal axis wind turbine
Demirci V., Kan F. E., Seyhan M., Sarioğlu M.
ENERGY CONVERSION AND MANAGEMENT, cilt.324, ss.1-13, 2025 (SCI-Expanded)
- IV. Enhancing petroleum logistics with innovative decision support mechanism for fuel tanker selection
MURAT M., SEYHAN M., Erdogan M., AYYILDIZ E.
Environmental Science and Pollution Research, 2025 (SCI-Expanded)
- V. Physics of Fluids
Seyhan M., Yıldız A., Çolak A., Yosma E., Kurdoğlu Ş., Dokumacı K., Çetin H.
PHYSICS OF FLUIDS, cilt.36, sa.11, ss.1-15, 2024 (SCI-Expanded)
- VI. Overall aerodynamic performance of the airfoils with different amplitudes via a fuzzy decision making based Taguchi methodology
Seyhan M., Es H. A., Sarioğlu M.
Applied Soft Computing, cilt.165, 2024 (SCI-Expanded)
- VII. An experimental investigation on the flow control of the partially stepped NACA0012 airfoil at low Reynolds numbers
SEYHAN M., Akbiyik H.
Ocean Engineering, cilt.306, 2024 (SCI-Expanded)
- VIII. Aerodynamic drag improvements on a circular cylinder using passive Venturi actuators
Firat E., SEYHAN M., ÖZKAN G. M.
Physics of Fluids, cilt.36, sa.2, 2024 (SCI-Expanded)
- IX. Effect of aero-shaped vortex generators on NACA 4415 airfoil
Algan M., Seyhan M., Sarioğlu M.
OCEAN ENGINEERING, cilt.291, 2024 (SCI-Expanded)
- X. Investigation of aerodynamic performance of Clark-Y airfoil with more realistic tubercle model and internal slots
Demirci V., Seyhan M., Sarioglu M.
PHYSICS OF FLUIDS, cilt.35, sa.8, 2023 (SCI-Expanded)
- XI. Leading-edge tubercle modifications to the biomimetic wings
Çolak A., Seyhan M., Sarioğlu M.
PHYSICS OF FLUIDS, cilt.35, sa.1, 2023 (SCI-Expanded)
- XII. The effect of leading-edge tubercle on a tapered swept-back SD7032 airfoil at a low Reynolds number
Seyhan M., Akbiyik H., Sarioğlu M., Kececioglu S. C.
OCEAN ENGINEERING, cilt.266, 2022 (SCI-Expanded)
- XIII. Influence of Leading-Edge Tubercl with Amplitude Modulation on NACA 0015 Airfoil
Seyhan M., Sarioğlu M., Akansu Y. E.
AIAA JOURNAL, cilt.59, sa.10, ss.3965-3978, 2021 (SCI-Expanded)
- XIV. Investigation of drag reduction performance of half NACA 0009 and 0012 airfoils placed over a trailer on the flow around truck-trailer
SEYHAN M., SARIOĞLU M.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, cilt.35, sa.7, ss.2971-2979, 2021 (SCI-Expanded)
- XV. The effect of a novel spark-plug plasma synthetic jet actuator on the performance of a PEM fuel cell
Seyhan M., Akansu Y. E.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.140, ss.147-151, 2019 (SCI-Expanded)
- XVI. EFFECT OF SIGNAL MODULATION OF DBD PLASMA ACTUATOR ON FLOW CONTROL AROUND NACA 0015
Guler A. A., Seyhan M., Akansu Y. E.
ISI BILIMI VE TEKNIGI DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.38, sa.1, ss.95-105, 2018

- (SCI-Expanded)
- XVII. **Performance prediction of PEM fuel cell with wavy serpentine flow channel by using artificial neural network**
 SEYHAN M., AKANSU Y. E., Murat M., KORKMAZ Y., AKANSU S. O.
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.40, ss.25619-25629, 2017 (SCI-Expanded)
- XVIII. **THE IMPROVEMENT OF DRAG FORCE ON A TRUCK TRAILER VEHICLE BY PASSIVE FLOW CONTROL METHODS**
 AKANSU Y. E., BAYINDIRLI C., SEYHAN M.
 ISI BILIMI VE TEKNIGİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, cilt.36, sa.1, ss.133-141, 2016
 (SCI-Expanded)

Düzenlenen Dergilerde Yayınlanan Makaleler

- I. **The effect of Clark-Y airfoil vortex generators on tapered NACA 0020 wing**
 SEYHAN M., ÇOLAK A., Sarioglu M.
 Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, cilt.13, sa.3, ss.776-784, 2024 (Hakemli Dergi)
- II. **Evaluating the factors influencing the sustainable refrigerant selection by fuzzy decision making approach**
 SEYHAN M., AYYILDIZ E., Erdogan M.
 Journal of Sustainable Construction Materials and Technologies, cilt.9, sa.1, ss.45-59, 2024 (Scopus)
- III. **Effect of attack angle on the flow around adjacent circular and rectangular prisms**
 SEYHAN M., SARIOĞLU M., AKANSU Y. E.
 Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, cilt.10, sa.2, ss.833-839, 2021 (Hakemli Dergi)
- IV. **Control of flow around Side by Side Square Prisms Using Control Rods**
 Seyhan M., Sarıoğlu M.
 Afyon Kocatepe University Journal of Science and Engineering, cilt.20, sa.3, ss.543-550, 2020 (Hakemli Dergi)
- V. **Effect of Attack Angle on Flow around A Square Prism with A Splitter Plate**
 Seyhan M., Sarıoğlu M., Akansu Y. A.
 Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, cilt.23, ss.233-240, 2018 (Hakemli Dergi)
- VI. **Aerodynamic Drag Force Estimation of a Truck Trailer Model Using Artificial Neural Network**
 Sarıoğlu M., Seyhan M., Akansu Y. E.
 International Journal of Automotive Engineering and Technologies, cilt.5, sa.4, ss.168-175, 2016 (Hakemli Dergi)
- VII. **Aerodynamic forces acting on a circular cylinder with splitter plate at incidence**
 SARIOĞLU M., SEYHAN M., AKANSU Y. E.
 KSU Journal of Engineering Sciences, cilt.19, sa.3, ss.1-6, 2016 (Hakemli Dergi)
- VIII. **The passive flow control around a truck-trailer model**
 OZEL M., AYGUN E., AKANSU Y. E., BAYINDIRLI C., SEYHAN M.
 INTERNATIONAL JOURNAL OF AUTOMOTIVE ENGINEERING AND TECHNOLOGIES, cilt.4, sa.4, ss.185-192, 2015
 (Hakemli Dergi)

Hakemli Bilimsel Toplantılarda Yayınlanmış Bildiriler

- I. **The Effect of Backward Counter-Rotating Triangular Type Vortex Generators on NACA 4415 Airfoil**
 Algan M., Seyhan M., Sarıoğlu M.
 2nd International Conference on Engineering and Applied Natural Sciences, Konya, Türkiye, 15 - 18 Ekim 2022,
 ss.1-5
- II. **THE EFFECTS OF A SYNTHETIC JET WITH VARIOUS JET TO PLATE DISTANCES ON IMPINGING JET HEAT TRANSFER**
 Akbıyık H., Seyhan M., Kocabıyık O., Sarıoğlu M., Akansu Y. E.

- 2nd International Conference on Engineering and Applied Natural Sciences, Kayseri, Türkiye, 1 - 03 Eylül 2022,
ss.1-5
- III. AERODYNAMIC PERFORMANCE OF LEADING-EDGE TUBERCLE OF TAPERED SWEPT-BACK NACA 0020 AIRFOIL**
- Seyhan M, Sarıoğlu M., Çolak A.
17th international conference of young scientists on energy and natural sciences issues, Kaunas, Litvanya, 24 - 28 Mayıs 2021, ss.1-8
- IV. AN EXPERIMENTAL STUDY ON FLOW AROUND NACA 0020 AIRFOIL WITH DIFFERENT SWEPT BACK ANGLE**
- Seyhan M, Sarıoğlu M., Akansu Y. E.
17th international conference of young scientists on energy and natural sciences issues, Kaunas, Litvanya, 24 - 28 Mayıs 2021, ss.1-6
- V. AERODYNAMIC CHARACTERISTICS OF NACA 0015 AIRFOIL HAVING DIFFERENT ASPECT RATIO WITH END PLATES**
- Seyhan M, Sarıoğlu M.
17th international conference of young scientists on energy and natural sciences issues , Kaunas, Litvanya, 24 - 28 Mayıs 2021, ss.1-7
- VI. INVESTIGATION OF LEADING-EDGE TUBERCLE FOR TAPERED SWEPT-BACK AIRFOIL AT LOW REYNOLDS NUMBER**
- Seyhan M., Çolak A, Sarıoğlu M.
17th international conference of young scientists on energy and natural sciences issues, Kaunas, Litvanya, 24 - 28 Mayıs 2021, ss.1-6
- VII. THE EFFECTS OF LEADING EDGE TUBERCLES ON FLOW AROUND A SEMI SPAN NACA 0020 AIRFOIL**
- Çolak A, Seyhan M, Sarıoğlu M.
International Conference on Engineering Technologies, Konya, Türkiye, 19 - 21 Kasım 2020, ss.132
- VIII. INVESTIGATION OF EFFECTS OF WAVY LEADING EDGE ON FLOW AROUND A NACA 0020 AIRFOIL**
- Seyhan M., Sarıoğlu M., Akansu Y. E.
International Conference on Engineering Technologies, Konya, Türkiye, 19 - 21 Kasım 2020, ss.99
- IX. Effect of Leading-Edge Tubercles on Flow around NACA 0015 Airfoil at $Re = 1 \times 10^5$**
- Seyhan M., Sarıoğlu M., Akansu Y. E.
5th International Mediterranean Science and Engineering Congress, Antalya, Türkiye, 21 - 23 Ekim 2020, ss.237-239
- X. The Investigation of Leading-Edge Tubercles on Flow Around A Semi-Span NACA 634-021 Airfoil**
- Seyhan M., Çolak A, Sarıoğlu M., Akansu Y. E.
5th International Mediterranean Science and Engineering Congress, Antalya, Türkiye, 21 - 23 Ekim 2020, ss.335-338
- XI. DESIGN AND EXPERIMENTAL INVESTIGATION OF BIO-INSPIRED SPOILER FOR TRUCK-TRAILER**
- KESAT T. M., SARİOĞLU M., SEYHAN M.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC'19), Nevşehir, Türkiye, 21 - 23 Haziran 2019, ss.531-534
- XII. Investigation of The Jet Flow Characteristics of a Synthetic Jet Actuator in terms of Signal Type**
- AKANSU Y. E., SEYHAN M., AKBIYIK H., KOCABIYIK O.
International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN 2018, Ankara, Türkiye, 8 - 09 Aralık 2018, ss.480-485
- XIII. Heat Transfer Characteristic of a Synthetic Jet Actuator with Varied Driven Signal Type**
- KOCABIYIK O., AKBIYIK H., SEYHAN M., AKANSU Y. E., SARİOĞLU M.
1st International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Türkiye, 8 - 09 Kasım 2018
- XIV. INVESTIGATION OF LEADING EDGE TUBERCLES ON NACA 0015 AIRFOIL**
- SEYHAN M., SARİOĞLU M., AKANSU Y. A.
1 st International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Türkiye, 8 - 09

- Kasım 2018, ss.413-416
- XV. **HEAT TRANSFER CHARACTERISTICS OF A SYNTHETIC JET ACTUATOR WITH VARIED DRIVEN SIGNAL TYPE**
KOCABIYIK O., AKBIYIK H., SEYHAN M., SARİOĞLU M., AKANSU Y. A.
1 st International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Türkiye, 8 - 09 Kasım 2018, ss.476-479
- XVI. **INVESTIGATION OF HALF NACA 0018 AIRFOIL ON TRUCK-TRAILER**
SARİOĞLU M., SEYHAN M., AKANSU Y. A.
1 st International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Türkiye, 8 - 09 Kasım 2018, cilt.1, sa.1, ss.499-503
- XVII. **DRAG REDUCTION OF TRUCK-TRAILER USING HALF OF NACA 0006 AIRFOIL**
SARİOĞLU M., SEYHAN M., AKANSU Y. A.
OTEKON 2018 ULUSLARARASI 9. OTOMOTİV TEKNOLOJİLERİ KONGRESİ, Bursa, Türkiye, 7 - 08 Mayıs 2018, ss.714-719
- XVIII. **Effect of Synthetic Jet with Duty Cycle over Heat Transfer Enhancement**
SEYHAN M., AKBIYIK H., SARİOĞLU M., ERDURCAN E. F., AKANSU Y. E.
Proceedings of the 3rd World Congress on Momentum, Heat and Mass Transfer (MHMT'18), Budapest, Macaristan, 12 - 14 Nisan 2018
- XIX. **FLOW AROUND A SQUARE CYLINDER WITH WAVY SPLITTER PLATE PLACED UPSTREAM**
SEYHAN M., SARİOĞLU M., AKANSU Y. E.
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 20 - 22 Eylül 2017, ss.1-8
- XX. **Flow Control around a NACA 0015 Airfoil with DBD Plasma Actuator Placed at an Angle to Chord Direction as a Vortex Generator**
GÜNYAYDIN R., AKANSU Y. E., AKBIYIK H., SEYHAN M.
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 20 - 22 Eylül 2017, ss.1-7
- XXI. **Investigation of Flow Characteristics of Synthetic Jet Driven by Duty Cycle Signal**
AKANSU Y. E., SARİOĞLU M., SEYHAN M., AKBIYIK H.
10th International Conference on Sustainable Energy & Environmental Protection, Bled, Slovenya, 27 Haziran - 30 Temmuz 2017, cilt.1, sa.1, ss.345-354
- XXII. **Vortex Shedding Frequency Estimation of a Circular Cylinder with Splitter Plate at Incidence Using Artificial Neural Network**
SEYHAN M., SARİOĞLU M., AKANSU Y. E., AKBIYIK H.
3 rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Konya, Türkiye, 24 - 26 Mayıs 2017, ss.1
- XXIII. **Aerodynamic Force Estimation of A NACA 0015 Airfoil with DBD Plasma Actuator Using Artificial Neural Network**
AKBIYIK H., SEYHAN M., AKANSU Y. E., YAVUZ H., SARİOĞLU M.
3 rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Konya, Türkiye, 24 - 26 Mayıs 2017, ss.1
- XXIV. **Effect of Length of the Wavy Shaped Splitter Plate on Flow around a Circular Cylinder**
SARİOĞLU M., SEYHAN M., AKANSU Y. E.
8th International Exergy, Energy and Environment Symposium (IEEES-8), Antalya, Türkiye, 1 - 04 Mayıs 2016, ss.589-592
- XXV. **Effect of the duty cycle on the spark-plug plasma synthetic jet actuator**
SEYHAN M., Akansu Y. E., Karakaya F., Yesildag C., AKBIYIK H.
10th Anniversary International Conference on Experimental Fluid Mechanics, Prague, Çek Cumhuriyeti, 17 - 20 Kasım 2015, cilt.114
- XXVI. **Development of Novel Plasma Synthetic Jet Actuator Based on Spark-Plug**
SEYHAN M., AKANSU Y. E., Karakaya F., Ay F.
13th International Conference on Fluid Control, Measurements and Visualization, Doha, Qatar, 15 - 18 Kasım 2015
- XXVII. **Effect of the wavy shaped splitter plate on flow around a circular cylinder**

Desteklenen Projeler

AYYILDIZ E., SEYHAN M., MURAT M., ERDOĞAN ALTUNBEY M., Yükseköğretim Kurumları Destekli Proje, Karayollarında petrol taşımacılığında kullanılan tankerlerin seçim problemine yönelik yeni bir hibrit Fermatean bulanık çok kriterli karar verme tekniği Fermatean DEMATELCRITICWASPAS, 2023 - 2024

Seyhan M., Fırat E., TÜBİTAK Projesi, Düşük Reynolds sayılarında biyo-ilhamlı boylamasına şeritli bir kanat profilinin deneysel bir çalışması, 2022 - 2024

SARIOĞLU M., ÇOLAK A., SEYHAN M., DEMİRCİ V., Yükseköğretim Kurumları Destekli Proje, Doğadan Esinlenilen hücum kenarı dalgalı kanat profiline sahip yatay eksenli rüzgar turbininin tasarımını imalatı ve performansının deneysel olarak incelenmesi, 2022 - 2024

Sarioğlu M., Kahveci H., Es H. A., Fırat E., Akansu Y. E., Seyhan M., TÜBİTAK Projesi, Doğadan Esinlenilmiş Hücum Kenarı Dalgalı Kanata Sahip Dikey Eksenli Rüzgâr Turbininin Deneysel Ve Sayısal İncelenmesi, 2022 - 2024

Sarioğlu M., Akansu Y. E., TÜBİTAK Projesi, Hücum ve Firar Kenarı Dalgalı Geometriye Sahip Uçak Kanadı Performansına Artan Azalan Genlik Modülasyonunun Etkisinin İncelenmesi, 2018 - 2021

Sarioğlu M., Akansu Y. E., TÜBİTAK Projesi, Farklı Genlik Ve Frekansa Sahip Ardisık Olarak Üretilen Sentetik Jetlerin Etkilesiminin İncelenmesi, 2016 - 2018

Akansu Y. E., TÜBİTAK Projesi, PEM Yakıt Pillerinde Plazma Sentetik Jet Kullanılarak Yakıt Pili Performansının İyileştirilmesi, 2014 - 2016

Bilimsel Yayınlarda Hakemlikler

ENERGY, SCI Kapsamındaki Dergi, Haziran 2022

Frontiers in Forests and Global Change, ESCI Kapsamındaki Dergi, Ocak 2022

ENERGY, SCI Kapsamındaki Dergi, Mayıs 2021

ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, Hakemli Bilimsel Dergi, Nisan 2021

ENERGY, SCI Kapsamındaki Dergi, Mart 2021

ENERGY, SCI Kapsamındaki Dergi, Şubat 2021

ENERGY, SCI Kapsamındaki Dergi, Ekim 2019

APPLIED ENERGY, SCI Kapsamındaki Dergi, Şubat 2019

MECHATRONICS, SCI Kapsamındaki Dergi, Ekim 2018

ENERGY, SCI Kapsamındaki Dergi, Eylül 2018

Metrikler

Yayın: 54

Atıf (WoS): 222

Atıf (Scopus): 233

H-İndeks (WoS): 8

H-İndeks (Scopus): 8

Burslar

2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı - 2021/2, TÜBİTAK, 2022 - Devam Ediyor