

Prof. Sedat Yayla

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 22669

Biography

Sedat YAYLA was born on 10/11/1977 in Van. He completed his primary and secondary education in Van. In 2000, he graduated from the Karadeniz Technical University, Engineering Faculty of Mechanical Engineering Department. He did his military service as a project engineer in Gendarmerly Ordnance Main Depot Command between 2001-2002. Between date of 04/01/2002 and 08/30/2002, he worked as a welding engineer in Yozgat-Kirsehir natural gas pipeline which under control by LIMAK Inc. He completed his master's degree in Mechanical Engineering Department in Institute of Sciences in Yuzuncu Yil University between 2002-2005. He completed his doctoral studies in the Cukurova University, Institute of Science, Department of Mechanical Engineering between 2005-2009. He started his career in Yuzuncu Yil University, Faculty of Engineering and Architecture, Department of Mechanical Engineering as Asst. Prof. In 2010. He worked on the project called as "Computational Fluid Dynamics and Heat Transfer Analysis for a Novel Heat Exchanger" in Lehigh University in the United States between June-September 2011. He served as assistant dean of Engineering and Architecture Faculty and head of Mechanical Engineering department between 2011-2013. As of 2014, he received the title of associate professor and As of 2019, he received the title of professor. As of 2015, he has been serving as the head of the mechanical engineering department and as of 2019, he is the director of the Van vocational school.

He still has worked in Van Yuzuncu Yil University, Faculty of Engineering Department of Mechanical Engineering as a Prof. Dr.

Education Information

Doctorate, Cukurova University, Müh-Mim. Fak., Makine Müh. Böl., Turkey 2005 - 2009

Postgraduate, Van Yüzüncü Yil University, Müh-Mim. Fak., Makine Müh. Böl., Turkey 2002 - 2005

Undergraduate, Karadeniz Technical University, Müh-Mim. Fak., Makine Müh. Böl., Turkey 1995 - 2000

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Flow Characteristics of Diamond and Lambda Wings at Different Flight Conditions, Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2009

Postgraduate, Van Gölü Kıyısının Rüzgar Enerjisi Potansiyelinin Belirlenmesi , Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2005

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Pressure Vessels and Piping, Wind power, Engineering and Technology

Academic Titles / Tasks

Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2019 - Continues
Associate Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - 2019
Assistant Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2010 - 2014
Research Assistant, Cukurova University, Müh.-Mim. Fak., Makine Müh. Böl., 2005 - 2009
Research Assistant, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2002 - 2005

Academic and Administrative Experience

Vice Rector, Van Yüzüncü Yil University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2020 - Continues
BAP Coordinator, Van Yüzüncü Yil University, 2020 - Continues
Van Yüzüncü Yil University, 2019 - Continues
Van Yüzüncü Yil University, Müh.-Mim. Fak., Makine Müh. Böl., 2018 - Continues
Van Yüzüncü Yil University, Müh.-Mim. Fak., Makine Müh. Böl., 2015 - Continues
Enstitü Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, 2015 - 2021
Director of Vocational School, Van Yüzüncü Yil University, 2019 - 2020
Head of Department, Van Yüzüncü Yil University, Makine Müh. Böl., 2018 - 2020
Rectorate Commissioner, Van Yüzüncü Yil University, 2017 - 2018
Van Yüzüncü Yil University, Müh.-Mim. Fak., 2011 - 2013
Van Yüzüncü Yil University, Müh.-Mim. Fak., Makine Müh. Böl., 2010 - 2013

Courses

Bitirme Projesi I , Undergraduate, 2017 - 2018
Makine Mühendisliğine Giriş , Undergraduate, 2017 - 2018
Sınır Tabaka Teorisi, Postgraduate, 2016 - 2017, 2014 - 2015
Makine Mühendisliğine Giriş, Undergraduate, 2016 - 2017, 2015 - 2016
Akışkanlar Mekaniği, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Uygulamalı Akışkanlar Mekaniği, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Sıkıştırılabilir Akış, Postgraduate, 2016 - 2017, 2014 - 2015
Akış Görüntüleme Teknikleri, Postgraduate, 2015 - 2016, 2014 - 2015
Bilgisayar Destekli Çizim, Undergraduate, 2015 - 2016
Akışkanlar Mekaniği, Undergraduate, 2015 - 2016
Teknik Resim, Undergraduate, 2015 - 2016
Teknik Resim, Undergraduate, 2015 - 2016
Akışkanlar Mekaniği, Undergraduate, 2011 - 2012

Advising Theses

- Yayla S., ÜÇGEN KANATÇIKLI VE AÇIK HÜCRELİ TİTANYUM METAL KÖPÜK ÜZERİNDE ISI TRANSFER MEKANİZMASININ SAYISAL OLARAK İNCELENMESİ, Postgraduate, A.MUHAMMET(Student), 2023
- Yayla S., Hidrokinetik enerjinin piezoelektrik malzemeler ile elektrik enerjisine dönüştürülmesi için deneysel ve sayısal bir çalışma, Postgraduate, S.AYÇA(Student), 2022
- Yayla S., Numerical investigation study for two designs of passive micromixers based on split and recombination concept, Postgraduate, M.RAFE(Student), 2021
- Yayla S., Birleştirilmiş plakalarla tasarlanan arıtma sisteminin deneysel ve sayısal analizi, Postgraduate, M.ORUÇ(Student), 2020
- Yayla S., Van ve Hakkari Bölgelerinde Rüzgar Potansiyelinin Belirlenmesi, Postgraduate, E.HARMANCI(Student), 2018
- Yayla S., FLOW ANALYZING AND DETERMINING FORCE OF TWO DIFFERENT BUCKET IN THE PELTON TURBINE, Postgraduate, A.Abdullah(Student), 2017
- Yayla S., TWO PHASE SEPARATION (OIL AND GAS) IN HORIZONTAL SEPARATOR BY INLET DIVERTER PLATE IN OILFIELD INDUSTRY, Postgraduate, K.Kamal(Student), 2017
- Yayla S., CFD SIMULATION COALESCING PLATE TO SEPARATING WATER AND OIL IN WATER TREATMENT PLANT IN PETROLUM PROJECT, Postgraduate, S.Sabah(Student), 2016
- Yayla S., THE CFD ANALYSIS OF CAVITATION IN THE VENTURI MODELS DESIGNED FOR TWO PHASE FLOW, Postgraduate, S.Yaseen(Student), 2016

Jury Memberships

- Competition, TÜBİTAK 49. LİSE ÖĞRENCİLERİ ARAŞTIRMA PROJELERİ BÖLGE YARIŞMALARI, TÜBİTAK, March, 2018
- Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. kadrosu atama jürisi, Van Yüzüncü Yıl Üniversitesi, December, 2017
- Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. kadrosu atama jürisi, Muş Alparslan Üniversitesi, December, 2016
- Doctorate, Doktora savunması, Atatürk üniversitesi, December, 2016
- Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. kadrosu atama jürisi, Muş Alparslan Üniversitesi, December, 2016
- Appointment to Academic Staff-Assistant Professorship, Araştırma Görevlisi sınav jürisi, Yüzüncü Yıl Üniversitesi, January, 2016
- Academic Staff Examination, Ünvan değişikliği motor teknisyeni sınavı, Yüzüncü Yıl Üniversitesi, October, 2015
- Appointment to Academic Staff-Assistant Professorship, Araştırma Görevlisi sınav Jürisi, Yüzüncü Yıl Üniversitesi, June, 2013
- Post Graduate, Fatih Karademir isimli öğrencinin tez savunma jürisi, Yüzüncü Yıl Üniversitesi, September, 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Numerical Studies on the Oil–Water Mixture Separation by Corrugated Plates with Hooks and Holes in Various Shapes and Configurations**
Oruç M., Salih M., Yayla S., BAYRAKTAR S.
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- II. **Experimental Investigation and Optimization Analysis of a Designed Wastewater Treatment System**
Oruç M., Yayla S.
Journal of Environmental Engineering (United States), vol.149, no.7, 2023 (SCI-Expanded)
- III. **EXPERIMENTAL INVESTIGATION OF OIL-IN WATER SEPARATION USING CORRUGATED PLATES AND OPTIMIZATION OF SEPARATION SYSTEM**
Oruç M., Yayla S.

SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.5, pp.788-800, 2022 (SCI-Expanded)

- IV. **Estimation of target station data using satellite data and deep learning algorithms**
Yayla S., Harmanci E.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.1, pp.961-974, 2021 (SCI-Expanded)
- V. **A case study on piezoelectric energy harvesting with using vortex generator plate modeling for fluids**
Yayla S., Ayca S., Oruç M.
RENEWABLE ENERGY, vol.157, pp.1243-1253, 2020 (SCI-Expanded)
- VI. **Control of flow structures around a cylinder in deep water employing a passive control element**
Yayla S., Tekşin S., ŞAHİN B.
FLUID DYNAMICS RESEARCH, vol.51, no.5, 2019 (SCI-Expanded)
- VII. **Numerical Analysis of a Two-Phase Flow (Oil and Gas) in a Horizontal Separator used in Petroleum Projects**
Yayla S., Kamal K., Bayraktar S.
JOURNAL OF APPLIED FLUID MECHANICS, vol.12, no.4, pp.1037-1045, 2019 (SCI-Expanded)
- VIII. **Flow measurement around a cylindrical body by attaching flexible plate: A PIV approach**
Yayla S., Tekşin S.
FLOW MEASUREMENT AND INSTRUMENTATION, vol.62, pp.56-65, 2018 (SCI-Expanded)
- IX. **Effects of Trailing-Edge Attachment on the Flow Structure over a Generic Delta Wing**
Canpolat C., Yayla S., Sahin B., Akilli H.
JOURNAL OF AEROSPACE ENGINEERING, vol.30, no.5, 2017 (SCI-Expanded)
- X. **Effects of flexible plate attached to the rear of the cylinder on flow structure**
Tekşin S., Yayla S.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.3, pp.1195-1201, 2017 (SCI-Expanded)
- XI. **Numerical investigation of coalescing plate system to understand the separation of water and oil in water treatment plant of petroleum industry**
Yayla S., Ibrahim S. S., OLCAY A. B.
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, vol.11, no.1, pp.184-192, 2017 (SCI-Expanded)
- XII. **Effects of Flexible Splitter Plate in the Wake of a Cylindrical Body**
Tekşin S., Yayla S.
JOURNAL OF APPLIED FLUID MECHANICS, vol.9, no.6, pp.3053-3059, 2016 (SCI-Expanded)
- XIII. **Computational Fluid Dynamics and Heat Transfer Analysis for a Novel Heat Exchanger**
Ma H., Oztekin D. E., BAYRAKTAR S., Yayla S., Oztekin A.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.137, no.5, 2015 (SCI-Expanded)
- XIV. **Wall proximity effects on flow over cylinders with different cross sections**
BAYRAKTAR S., Yayla S., Oztekin A., Ma H.
CANADIAN JOURNAL OF PHYSICS, vol.92, no.10, pp.1141-1148, 2014 (SCI-Expanded)
- XV. **The effect of angle of attack on the flow structure over the nonslender lambda wing**
Yayla S., CANPOLAT Ç., ŞAHİN B., AKILLI H.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.28, no.1, pp.417-430, 2013 (SCI-Expanded)
- XVI. **Flow Characteristic of Staggered Multiple Slotted Tubes in the Passage of a Fin Tube Heat Exchanger**
Yayla S.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.59, pp.462-472, 2013 (SCI-Expanded)
- XVII. **Flow structure over the yawed nonslender diamond wing**
ŞAHİN B., Yayla S., CANPOLAT Ç., AKILLI H.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.23, no.1, pp.108-119, 2012 (SCI-Expanded)
- XVIII. **Observation of the Vortical Flow over a Yawed Delta Wing**
CANPOLAT Ç., Yayla S., ŞAHİN B., AKILLI H.
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.4, pp.613-626, 2012 (SCI-Expanded)
- XIX. **WIND ENERGY POTENTIAL ON THE COAST OF LAKE VAN**

- YUMAK H., Ucar T., Yayla S.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.9, no.1, pp.1-12, 2012 (SCI-Expanded)
- XX. **Yaw Angle Effect on Flow Structure over the Nonslender Diamond Wing**
Yayla S., CANPOLAT Ç., ŞAHİN B., AKILLI H.
AIAA JOURNAL, vol.48, no.10, pp.2457-2461, 2010 (SCI-Expanded)
- XXI. **EFFECT OF YAW ANGLE ON THE FORMATION OF VORTEX BREAKDOWN OVER THE DIAMOND WING**
Yayla S., CANPOLAT Ç., ŞAHİN B., Akilli H.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.30, no.1, pp.79-89, 2010 (SCI-Expanded)
- XXII. **Dye Visualization of the Flow Structure over a Yawed Nonslender Delta Wing**
CANPOLAT Ç., Yayla S., ŞAHİN B., AKILLI H.
JOURNAL OF AIRCRAFT, vol.46, no.5, pp.1818-1822, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of Corrugated Plates on Separation Performance**
Oruç M., Yayla S.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.2, pp.286-302, 2022 (Peer-Reviewed Journal)
- II. **Vortex generator design for electrical energy harvesting with piezoelectric in rivers**
Yayla S., Ayca S., Oruç M.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.24, no.3, pp.771-777, 2021 (ESCI)
- III. **Petrol-Su Ayrışma Sistemlerindeki Birleştirilmiş Plakaların Ayrışma Verimliliği Üzerindeki Etkisinin Deneysel Olarak İncelenmesi**
Oruç M., Yayla S.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.7, no.Özel Sayı, pp.163-174, 2020 (Peer-Reviewed Journal)
- IV. **Computational Analysis of Effects of Location of the Diverter Plate and Inlet Velocity on the Efficiency of Two-Phase Flow Separator**
Yayla S., Kamal K., BAYRAKTAR S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.3, pp.575-581, 2019 (ESCI)
- V. **Wind Potential Analysis for Hakkari Central Region**
HARMANCI E., Yayla S.
Machines Technologies Materials, no.12, pp.283-286, 2018 (Peer-Reviewed Journal)
- VI. **Visualization Flow on the Pelton Turbine Bucket by CFD**
Yayla S., Abdullah A.
Machines Technologies Materials, no.12, pp.244-247, 2018 (Peer-Reviewed Journal)
- VII. **Hesaplamalı Akışkanlar Dinamiği Kullanılarak Çeşitli Jet Hızları Ve Ayrıcı Açılımları İçin Bir Pelton Türbin Keçesine Etki Eden Kuvvetlerin Belirlenmesi**
Yayla S., Abdullah A., Oruç M.
DSİ Teknik Bülteni, no.128, pp.11-21, 2018 (Peer-Reviewed Journal)
- VIII. **Two Phase Flow Separation in a Horizontal Separator by Inlet Diverter Plate in Oilfield Industries**
Yayla S., Kamal K., Bayraktar S., Oruç M.
International Journal of Mechanical And Production Engineering, vol.5, no.10, pp.97-100, 2017 (Peer-Reviewed Journal)
- IX. **CFD simulation of designed coalescing plates for separating water and oil in water treatment plants used in petroleum projects**
Yayla S., Ibrahim S. S., OLCAY A. B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISI, vol.23, no.4, pp.358-363, 2017 (ESCI)
- X. **Investigation of Single Slotted Cylinder Placed in a Fin Tube Heat Exchanger Model**

Yayla S., SAHIN B., Önal S., AKILLI H., Tekşin S.

International Journal of Advancements in Mechanical and Aeronautical Engineering- IJAMAE, no.2, pp.81-86, 2015
(Peer-Reviewed Journal)

XI. Numerical Investigation of Cavitation on Different Venturi Models

Yayla S., YASEEN S., OLCAY A. B.

Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, pp.22-33, 2015 (Peer-Reviewed Journal)

XII. Yüzüncü Yıl Üniversitesi Kampüs Alanının Rüzgâr Enerjisi Potansiyelinin Belirlenmesi

Yayla S., YUMAK H., Bayram A.

Y. Y. Ü. Fen Bilimleri Enstitüsü Dergisi, vol.15, no.1, pp.17-23, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. EXPERIMENTAL INVESTIGATION OF OIL-WATER SEPARATION EFFICIENCY

Oruç M., Yayla S.

3rd International World Energy Conference (IWEC), Kayseri, Turkey, 4 - 05 December 2023, vol.1, no.1, pp.140-146

II. SYSTEM DESIGN FOR GREEN POWER GENERATION WITH PIEZOELECTRIC MATERIALS

Ayça S., Yayla S.

11th Global Conference on Global Warming (GCGW-2023), İstanbul, Turkey, 14 - 16 June 2023, vol.1, no.1, pp.451-452

III. NUMERICAL INVESTIGATION OF HEAT TRANSFER MECHANISM ON TRIANGULAR FIN AND OPEN CELL TITANIUM METAL FOAM

Yayla S., Gül A., Oruç M.

12th International Istanbul Scientific Research Congress on Life, Engineering, and Applied Sciences, İstanbul, Turkey, 21 - 23 January 2023, vol.1, no.1, pp.19-33

IV. AN EXPERIMENTAL STUDY ON THE TREATMENT OF WASTE WATER BY GRAVITATIONAL METHOD

Oruç M., Yayla S.

II. INTERNATIONAL ISTANBUL CONGRESS (2.ULUSLARARASI İSTANBUL MULTİDİSİPLİNER BİLİMSEL ARAŞTIRMALAR KONGRESİ), İstanbul, Turkey, 28 - 29 September 2022, pp.617-624

V. EXPERIMENTAL ANALYSIS OF TREATMENT PERFORMANCE BY OPTIMIZATION OF EFFECTIVE PARAMETERS ON CORRUGATED PLATES USED IN TREATMENT SYSTEMS

Oruç M., Yayla S.

Topical Problems of Fluid Mechanics , Praha, Czech Republic, 16 - 18 February 2022, vol.8, no.1, pp.143-150

VI. AN EXPERIMENTAL AND NUMERICAL STUDY FOR ENERGY HARVESTING WITH PIEZOELECTRICITY IN RIVERS

Yayla S., Ayça S., Oruç M.

TOPICAL PROBLEMS OF FLUID MECHANICS, Praha, Czech Republic, 16 - 18 February 2022, vol.8, no.1, pp.208-215

VII. AN EXPERIMENTAL AND NUMERICAL CASE STUDY ON COALESCING PLATES USED IN OIL-WATER SEPARATION

Oruç M., Yayla S.

15th INTERNATIONAL COMBUSTION SYMPOSIUM, Kayseri, Turkey, 17 - 19 September 2020, pp.360-368

VIII. AKARSULARDA PİEZOELEKTRİK İLE ELEKTRİK ENERJİSİ HASADI İÇİN GİRDAP ÜRETİCİ TASARIMI

Yayla S., Ayça S., Oruç M.

22nd Congress on Thermal Science and Technology (CTST 2019), Kocaeli, Turkey, 11 - 14 September 2019, pp.17-27

IX. Cfd Simulation of Impact the Inlet Diverter Plate Location on Efficiency of Horizontal Separator

Yayla S., kamal K., Oruç M.

22nd Congress on Thermal Science and Technology (CTST 2019), Kocaeli, Turkey, 11 - 14 September 2019, pp.28-38

X. A Review on Design Optimization of Passive Micromixers

- Yayla S., AGHA A. T.
2nd International Congress on Engineering and Architecture (ENAR), Muğla, Turkey, 22 - 24 April 2019, pp.1-12
- XI. **HAD ile Bir Rüzgâr Türbin Kanatı Tasarımı ve Analizi**
Yayla S., KARAKAYALI F.
2nd International Congress on Engineering and Architecture (ENAR), Muğla, Turkey, 22 - 24 April 2019, pp.1-11
- XII. **Van İli Belirli İlçeleri İçin Hesaplanan Rüzgar Potansiyellerinin Karşılaştırılması**
Yayla S., HARMANCI E.
2nd International Congress on Engineering and Architecture (ENAR), Muğla, Turkey, 22 - 24 April 2019, pp.1-16
- XIII. **Numerical Simulation of the Coalescing Oil/Water Separator**
Yayla S., Oruç M.
International Conference on Engineering Technologies (ICENTE'18), Konya, Turkey, 26 - 28 October 2018, pp.553-557
- XIV. **Electrical Energy Harvesting with Piezoelectric**
Oruç M., Yayla S.
International Conference on Engineering Technologies (ICENTE'18), Konya, Turkey, 26 - 28 October 2018, pp.558-562
- XV. **Flow Analysis for Different Pelton Turbine Bucket by Applying Computation Fluid Dynamic**
Yayla S., Abdullah A.
19th International Conference on Mechanical and Aerospace Engineering- ICMAE 2017, Paris, France, 19 - 20 October 2017, pp.1-15
- XVI. **Numerical Investigation of Cavitation on Different Venturi Shapes by CFD**
Yayla S., Oruç M., YASEEN S.
19th International Conference on Mechanical and Aerospace Engineering- ICMAE 2017, Paris, France, 19 October - 20 September 2017, pp.1-115
- XVII. **Hakkari İli Rüzgar Hızı Potansiyelinin Yapay Sinir Ağları Metodu İle Belirlenmesi**
Yayla S., HARMANCI E.
ULIBTK'17 21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.1-10
- XVIII. **Two Phase Flow Separation in a Horizontal Separator by Inlet Diverter Plate in Oilfield Industries**
Yayla S., kamal K., BAYRAKTAR S., Oruç M.
International Conference on Science and Innovative Engineering (ICSIE), Barselona, Spain, 24 - 25 August 2017, pp.1-10
- XIX. **CFD Simulation For Designinig Two Different Shapes of the Venturi For Showing Cavitation in Two Phase Flow**
Yayla S., YASEEN S., OLCAY A. B.
Conference on Advances in Mechanical Engineering- ICAME 2016, İstanbul, Turkey, 11 - 13 May 2016, pp.1-10
- XX. **The separation of Water and Oil in Water Treatment Plant in Petroleum Project Using Coalescing Plate Seperator and CFD Simulation**
Yayla S., Sabah S., OLCAY A. B.
International Congress on Engineering and Information- ICEAI 2016, Osaka, Japan, 10 - 12 May 2016, pp.1-10
- XXI. **Esnek Bir Parça Eklerek Silindir Etrafındaki Akış Yapısının Parçacık Görüntülemeli Hız Ölçme Yöntemiyle İncelenmesi**
Yayla S., Tekşin S.
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2 - 05 September 2015, pp.172
- XXII. **Effects of Perturbation on the Flow over Nonslender Delta Wings**
Yayla S., SAHIN B., CANPOLAT C., AKILLI H.
45th AIAA Fluid Dynamics Conference, Dallas, United States Of America, 22 - 26 June 2015, pp.1-10
- XXIII. **Investigation of Single Slotted Cylinder Placed in a Fin Tube Heat Exchanger Model**
Yayla S., SAHIN B., AKILLI H., Tekşin S.
Mechanical and Automation Engineering - MAE 2015, Roma, Italy, 18 - 19 May 2015, pp.10-15
- XXIV. **Experimental Study of Flow Characteristics for a Cylinder with Respect to Attached Flexible Strip Body of Various Reynolds Number**

Yayla S., Tekşin S.

: ICMAE 2015 : 18th International Conference on Mechanical and Aerospace Engineering, Jeddah, Saudi Arabia, 26 - 27 January 2015, vol.2, no.1, pp.1

- XXV. **Investigation of Effect of Boundary Layer on Flow Structure Around a Cylinder with a Strip**
Yayla S., Tekşin S.
9th International Conference on Experimental Fluid Mechanics, Cesky Krumlov, Czech Republic, 18 - 21 November 2014, vol.92
- XXVI. **Comparison of Flow Structures in the Downstream Region of a Cylinder with Flexible Strip**
Tekşin S., Yayla S.
9th International Conference on Experimental Fluid Mechanics, Cesky Krumlov, Czech Republic, 18 - 21 November 2014, vol.92
- XXVII. **Investigation of Flow Structure Around a Cylinder with a Strip by Effect of Boundary Layer**
Yayla S., Tekşin S.
Experimental Fluid Mechanics 2014, Cesky Krumlov, Czech Republic, 18 - 21 November 2014, vol.92, pp.4
- XXVIII. **Kanatlarla Salınım Verilerek Elde Edilen Girdap Oluşumunun Delta Kanat Aerodinamiğine Etkisi**
Yayla S., SAHİN B., CANPOLAT C., AKILLI H.
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.228-233
- XXIX. **Flow and Heat Transfer Characteristics of the Staggered Slotted Semi Cylinders in a Cross Flow Heat Exchangers**
Yayla S., Oztekin A.
65th Annual Meeting of the APS Division of Fluid Dynamics, San Diego, California, United States Of America, 18 - 20 November 2012, vol.57, no.17, pp.1
- XXX. **Vangölü Kıyısı Üzerinde Bir Bölgenin Rüzgar Enerjisi Potansiyelinin Belirlenmesi**
Yayla S., YUMAK H., Almalı M. N.
8. Ulusal Temiz Enerji Sempozyumu, Bursa, Turkey, 18 December 2010, pp.159-166
- XXXI. **Sapma Açısının Delta Kanat Üzerindeki Girdap Yapısına Etkileri**
Yayla S., SAHİN B., CANPOLAT C.
III. Ulusal Havacılık ve Uzay Konferansı, Eskişehir, Eskişehir, Turkey, 16 - 18 September 2010, pp.1-5
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- XXXIV. **Hücum Açısının Lambda Kanat Modeli Üzerinde Oluşan Akışa Etkisi**
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Yayla S., Özgören M., SAHİN B.

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Yayla S., SAHİN B., AKILLI H.

I. Ulusal Havacılık ve Uzay Konferansı, Ankara, Turkey, 21 - 23 September 2006, pp.1-12

Other Publications

I. Van İli Rüzgar Enerji Potansiyeli

Yayla S.

Presentation, pp.47-53, 2012

Supported Projects

Yayla S., TUBITAK Project, Atık Suyun Ve Petrol-Su Karışımının Ayrıştırılması Sistemlerinde Kullanılacak Eğimli Birleştirilmiş Plaka Setlerinin Tasarımı Ve Sayısal Olarak İncelenmesi, 2021 - 2023

Yayla S., Oruç M., Project Supported by Higher Education Institutions, PetrolSu Ayrıştırma Sisteminin Tasarımı, 2019 - 2020

Yayla S., Project Supported by Higher Education Institutions, Pasif Mikromikserlerin Tasarım Optimizasyonu Üzerine Bir İnceleme, 2019 - 2019

Yayla S., Project Supported by Higher Education Institutions, Hesasplamalı Akışkanlar Dinamiği Metoduyla Pelton Türbin Keçesi için Akışın Göreselleştirilmesi, 2018 - 2018

Yayla S., HARMANCI E., Project Supported by Higher Education Institutions, van ve hakkari bölgelerinde rüzgar potansiyelinin belirlenmesi, 2017 - 2018

Yayla S., Project Supported by Higher Education Institutions, Pasif Bir Yöntemle Silindir Ardında Oluşan Daimi Olmayan Akış Yapısının Kontrolü, 2012 - 2013

Yayla S., TUBITAK Project, Parçacık Görüntülemeli Hız Ölçme (PIV) Yöntemiyle Ön Uç Yanal Açısı Düşük Delta Kanatlarda Oluşan Girdaplı Akışların İncelenmesi, 2005 - 2008

Yayla S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Van Gölü Kıyısının Rüzgar Enerjisi Potansiyeli ve Rüzgar Enerjisi Çevrimi Pilot Tesisi, 2003 - 2007

Activities in Scientific Journals

YYÜ Fen Bilimleri Dergisi, Assistant Editor/Section Editor, 2015 - Continues

Yüzüncü Yıl üniversitesi Fenbilimleri Enstitü Dergisi, Advisory Committee Member, 2015 - Continues

Memberships / Tasks in Scientific Organizations

Makine Mühendisleri Odası, Member, 2000 - Continues

Scientific Refereeing

Jornal of Fluids Engineering, SCI Journal, November 2019

BİLECİK ŞEYH EDEBALI ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, November 2019

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, August 2019

FUEL, SCI Journal, May 2019
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, April 2019
Isı Bilimi ve Tekniği Dergisi, SCI Journal, April 2019
TUBITAK Project, April 2019
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, February 2019
Ocean Engineering, SCI Journal, January 2019
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Environmental Science and Pollution Research, SCI Journal, September 2018
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Chinese Journal of Aeronautics, SCI Journal, August 2018
INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, SCI Journal, July 2018
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TUBITAK Project, January 2018
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Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, April 2017
Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, March 2017
Engineering Science and Technology, Other Indexed Journal, March 2017
Aerospace science and technology, SCI Journal, February 2017
International Journal of Fluid Mechanics Research, Other Indexed Journal, February 2017
Part M: Journal of Engineering for the Maritime Environment, SCI Journal, July 2016
Journal of Thermal Engineering, National Scientific Refreed Journal, June 2016
Journal of the Faculty of Engineering and Architecture of Gazi University, National Scientific Refreed Journal, February 2016
Pamukkale Üniversitesi Mühendislik :Bilimleri Dergisi, National Scientific Refreed Journal, February 2016
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International Journal of Green Energy, SCI Journal, January 2016
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PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, December 2015
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Journal of Modern Mechanical Engineering and Technology, Other Indexed Journal, November 2015
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Chemical Engineering Communications, SCI Journal, July 2015
TUBITAK Project, May 2015
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International Journal of Green Energy, SCI Journal, September 2013

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, April 2013

International Journal of Green Energy, SCI Journal, December 2012

Metrics

Publication: 76

Citation (WoS): 197

Citation (Scopus): 267

H-Index (WoS): 9

H-Index (Scopus): 11

Congress and Symposium Activities

International Conference on Data Science, Machine Learning and Statistics, Session Moderator, Van, Turkey, 2019

19th International Conference on Mechanical and Aerospace Engineering- ICMAE 2017, Attendee, Paris, France, 2017

ICMAE 2017 : 19th International Conference on Mechanical and Aerospace Engineering, Session Moderator, Paris, France, 2017

ULIBTK'17 21. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Çorum, Turkey, 2017

ISERD – 235th International Conference on Science and Innovative Engineering (ICSIE), Attendee, Barcelona, Spain, 2017

International Congress on Engineering and Information- ICEAI 2016, Session Moderator, Osaka, Japan, 2016

International Congress on Engineering and Information- ICEAI 2016, Attendee, Ōsaka, Japan, 2016

Mechanical and Automation Engineering - MAE 2015, Attendee, Roma, Italy, 2015

EFM Experimental Fluid Mechanics 2014, Attendee, Česk  Budejovice, Czech Republic, 2014

19. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Samsun, Turkey, 2013

65th Annual Meeting of the APS Division of Fluid Dynamics, Attendee, California, United States Of America, 2012

Van,Hakkari, Bitlis, Muş, Ađrı İlleri 2011 Enerji Formu, Attendee, Van, Turkey, 2012

8. Ulusal Temiz Enerji Sempozyumu, Attendee, Bursa, Turkey, 2010

17. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Sivas, Turkey, 2009

Ç. Ū. M h-Mim Fak. 30. Yıl Sempozyumu, Attendee, Adana, Turkey, 2008

, II. Ulusal Havacılık ve Uzay Konferansı, Attendee, İstanbul, Turkey, 2008

16. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Kayseri, Turkey, 2007

Awards

Yayla S., Şeremet M., Yayın Teşvik, T B TAK (ULAKB M), December 2018

Non Academic Experience

Other Public Institution, Kosgeb

Servet ARAR Ltd. Şti. (Kırşehir-Yozgat arası Dođal Gaz Boru Hattı)

Jandarma Ana Tamir Fabrika Komutanlığı'nda (Güvercinlik/Ankara)