

Prof. Seyfettin BAYRAKTAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-4069-2016

ScopusID: 24447888200

Yoksis Researcher ID: 11736

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı ve Gemi Makineleri Mühendisliği, Turkey 2002 - 2008

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı ve Gemi Makineleri Mühendisliği, Turkey 1998 - 2001

Undergraduate, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, Turkey 1994 - 1998

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Çapraz akıştaki türbülanslı jet akışlarının deneysel ve hesaplamalı akışkanlar dinamiği analizi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2008

Postgraduate, Boru ve silindirik kanallardaki engellerin akım üzerindeki etkilerinin simülasyonu, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2001

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Pressure Vessels and Piping, Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Thermal Systems, Naval Architecture and Marine Engineering, Ship Hydromechanics, Ship Machines, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2020 - Continues

Associate Professor, Gemi İnşaatı ve Gemi Makineleri Mühendisliği , Gemi İnşaatı ve Gemi Makineleri Mühendisliği , 2018 - 2020

Associate Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, 2015 - 2020

Associate Professor, National Defense University, Air Force Academy, Department Of Aerospace Engineering, 2019 - 2019

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, 2009 - 2015

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, 1999 - 2008

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2022 - Continues

Fakülte Kurulu Üyesi, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2020 - Continues

Member of ADEK Commission, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2020 - Continues

Graduate Education Coordinator, Yildiz Technical University, Naval Architecture and Maritime Faculty, Department of Naval Architecture and Marine Engineering, 2019 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2021 - 2023

Mevlana Exchange Program Coordinator, Yildiz Technical University, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2015 - 2019

Erasmus Coordinator, Yildiz Technical University, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2015 - 2019

Farabi Coordinator, Yildiz Technical University, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2015 - 2019

Yıldız Teknik Üniversitesi, Naval Architecture and Maritime Faculty, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2013 - 2014

Courses

Fluid Mechanics, Undergraduate, 2022 - 2023, 2021 - 2022

Heat Transfer, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020

Isı Transferi, Undergraduate, 2020 - 2021

Heat Transfer, Undergraduate, 2020 - 2021, 2019 - 2020

Turbulent Flow and Turbulence Models, Doctorate, 2018 - 2019

Fluid Mechanics, Undergraduate, 2018 - 2019

Denizcilik İngilizcesi, Undergraduate, 2017 - 2018

Gemi Geometrisi, Undergraduate, 2008 - 2009

Advising Theses

Bayraktar S., Thermal comfort analysis in ships with Computational Fluid Dynamics method , Postgraduate,

Y.Bekir(Student), Continues

Bayraktar S., Doğrul A., Hydro-Aerodynamics Investigation of a Surface Combatant Vessel , Doctorate, S.SARI(Student), Continues

Bayraktar S., Propeller design for turboprop unmanned aerial vehicle, Postgraduate, F.Türkoğlu(Student), Continues

Bayraktar S., Farklı Geometrik Yüzeyle Sahip Silindirler Etrafındaki Akışın Sayısal Olarak İncelenmesi, Postgraduate, E.Ozturk(Student), 2019

Bayraktar M., Bayraktar S., Two-Dimensional Computational Analysis of Vortex-Induced Vibration, Postgraduate, O.MUTLU(Student), 2019

Bayraktar S., Farklı Düzlemler Üzerine Çarpan Jetlerin Akış ve Isı Transfer Analizleri, Postgraduate, A.Bolek(Student), 2017

Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, June, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Van Yüzüncü Yıl Üniversitesi, April, 2023

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, December, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, December, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, November, 2022

Doctorate, Doctorate, Marmara Üniversitesi, November, 2022

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2022

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, April, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, April, 2022

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2022

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2022

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, July, 2021

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2021

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2021

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, April, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, April, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, January, 2021

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, December, 2020

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, November, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, November, 2020

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2020

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2020

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, July, 2020

Doctoral Examination, Doctoral Examination, Milli Savunma Üniversitesi, June, 2020

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, March, 2020

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, February, 2020

Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2019
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2019
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2019
Post Graduate, Post Graduate, Kocaeli Üniversitesi, July, 2019
Doctoral Examination, Ahmet Cagri Bilir, Yıldız Teknik Üniversitesi, April, 2019
Doctoral Examination, Nasser Ghassembaglou, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Büryan Apaçoğlu, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Ufuk Demir, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Burak Çoban, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Mert Alpaya, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Ozan Senman, İstanbul Teknik Üniversitesi, December, 2018
Doctoral Examination, Sertac Gümüştekin, Yıldız Teknik Üniversitesi, November, 2018
Doctoral Examination, Abdullah Göktürk, İstanbul Teknik Üniversitesi (İTÜ), May, 2018
Post Graduate, Miraç Kan, Kocaeli Üniversitesi, June, 2017
Doctoral Examination, Orhan Veli Kazancı, İstanbul Teknik Üniversitesi (İTÜ), May, 2017
Doctorate, Fatih Cuneyt Korkmaz, Yıldız Teknik Üniversitesi, November, 2016
Post Graduate, Mustafa Aydemir, Kocaeli Üniversitesi, August, 2015
Post Graduate, Ozer Ata, Yıldız Teknik Üniversitesi, July, 2015

Designed Lessons

Bayraktar S., Turbulent Flows and Turbulence Models, Doctorate, 2015 - 2016
Bayraktar S., Computational Thermo-Fluid, Doctorate, 2015 - 2016

Research Infrastructure Information

Bayraktar S., Wind Tunnel, January 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Mixed convection heat transfer and entropy generation of water inside a square vented enclosure with and without four vibrating cylinders in horizontal and vertical directions**
Almensoury M. F., Al-Srayyih B. M., Al-Amir Q. R., Hamzah H. K., Abed A. M., Ali F. H., Bayraktar S., Arıcı M., Hatami M.
NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, vol.83, no.13, pp.1-27, 2023 (SCI-Expanded)
- II. **Three-dimensional computational analysis of flow over twisted hydrofoils**
Öksüz S., Çelik F., Bayraktar S.
OCEAN ENGINEERING, vol.267, pp.1-11, 2023 (SCI-Expanded)
- III. **Comparison study of vertical and horizontal elastic wall on vented square enclosure filled by nanofluid and hexagonal shape with MHD effect**
Al-Amir Q. R., Hamzah H. K., Ali F. H., BAYRAKTAR S., ARICI M., Hatami M.
European Physical Journal: Special Topics, vol.231, no.13-14, pp.2623-2643, 2022 (SCI-Expanded)
- IV. **Two-dimensional simulations of vortex-induced vibration of a circular cylinder**
Mutlu A. O., BAYRAKTAR M., BAYRAKTAR S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M: JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.235, no.3, pp.683-694, 2021 (SCI-Expanded)
- V. **Innovative computational modal analysis of a marine propeller**
Uslu S., BAYRAKTAR M., DEMİR C., BAYRAKTAR S.

APPLIED OCEAN RESEARCH, vol.113, 2021 (SCI-Expanded)

- VI. **Numerical investigation of flow over obstacles on a backward-facing step** Bir ters-basamak üzerindeki engellerin etrafındaki akışın sayisal olarak incelenmesi
BAYRAKTAR S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.36, no.2, pp.1145-1158, 2021 (SCI-Expanded)
- VII. **Flow and heat transfer investigation of a circular jet issuing on different types of surfaces**
Bolek A., Bayraktar S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.44, no.12, 2019 (SCI-Expanded)
- VIII. **Flow field analysis of grooved surfaces**
Bayraktar S., Tekercioglu R., Dincel A.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5365-5368, 2019 (SCI-Expanded)
- IX. **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)
- X. **Dominant Vortex Structures in Transverse Jets**
BAYRAKTAR S., Yilmaz T.
JOURNAL OF APPLIED FLUID MECHANICS, vol.9, no.5, pp.2403-2411, 2016 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **NUMERICAL AND EXPERIMENTAL STUDY OF TURBULENT FREE SURFACE FLOW FOR A FAST SHIP MODEL**
Ozdemir Y. H., Barlas B., YILMAZ T., BAYRAKTAR S.
BRODOGRADNJA, vol.65, no.1, pp.39-54, 2014 (SCI-Expanded)
- XIV. **Numerical Solution of Three-Dimensional Flow over Angled Backward-Facing Step with Raised Upper Wall**
BAYRAKTAR S.
JOURNAL OF APPLIED FLUID MECHANICS, vol.7, no.1, pp.155-167, 2014 (SCI-Expanded)
- XV. **Experimental analysis of transverse jet using various decomposition techniques**
Bayraktar S., Yilmaz T.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.25, no.5, pp.1325-1333, 2011 (SCI-Expanded)
- XVI. **Three-dimensional analysis of temperature field for various parameters affect the film cooling effectiveness**
Bayraktar S., Yilmaz T.
ENERGY CONVERSION AND MANAGEMENT, vol.52, pp.1914-1929, 2011 (SCI-Expanded)
- XVII. **Two-dimensional numerical investigation of film cooling by a cool jet injected at various angles for different blowing ratios**
Bayraktar S., Yilmaz T.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.222, no.7, pp.1215-1224, 2008 (SCI-Expanded)
- XVIII. **Numerical investigation of a water flow in a rib-roughened channel by using Reynolds stress model**
Bayraktar S., Bayraktar M., Vardar N.
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, vol.22, no.5, pp.331-339, 2008 (SCI-Expanded)
- XIX. **Efficiency optimisation of gas turbine based cogeneration cycle**

Articles Published in Other Journals

- I. **Numerical investigation of flow over tandem and side-by-side cylinders**
Mentese A., Bayraktar S.
Seatific , vol.1, no.1, pp.15-25, 2021 (Peer-Reviewed Journal)
- II. **LAMINAR FLOW OVER SLOPED DOWNSTREAM HEATED BOTTOM WALL BEHIND A BACKWARD-FACING STEP**
BAYRAKTAR S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.38, no.3, pp.1555-1566, 2020 (ESCI)
- III. **Numerical investigation of aerodynamic characteristics of generic pickup trucks**
Atatug V., Bayraktar S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.1, pp.21-29, 2020 (ESCI)
- 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.
Politeknik Dergisi, vol.22, no.3, pp.575-581, 2019 (Peer-Reviewed Journal)
- V. **EFFECTS OF UNDER BODY DIFFUSER ON THE AERODYNAMICS OF A GENERIC CAR**
Bayraktar S., Bilgili Y. O.
International Journal of Automotive Engineering and Technologies, vol.7, no.2, pp.99-109, 2018 (Peer-Reviewed Journal)
- VI. **Computational fluid dynamics analyses on the hydrodynamic entry length in internal flows**
Kahramanoğlu E., Sezen S., Bayraktar S.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.23, no.4, pp.1-10, 2017 (Peer-Reviewed Journal)
- VII. **Two Phase Flow Separation in a Horizontal Separator by Inlet Diverter Plate in Oilfield Industries**
Yayla S., Karwan K., Bayraktar S., Oruc M.
International Journal of Mechanical And Production Engineering , vol.5, no.10, pp.7-10, 2017 (Peer-Reviewed Journal)
- VIII. **Flow Visualization of Sloshing in an Accelerated Two Dimensional Rectangular Tank**
Gurhan S., Bayraktar S.
International Journal of Engineering Technologies,, vol.1, no.3, pp.106-112, 2015 (Peer-Reviewed Journal)
- IX. **A Bulk Carrier Hatch Block Analysis with Finite Element Method**
İnce S. T., Demir Ö., Bayraktar S., Yılmaz T.
Annual Scientific Journal of Ovidius University, vol.10, no.1, pp.1-7, 2010 (Peer-Reviewed Journal)
- X. **Fluid-Structure Interaction (FSI) of a Three-Bladed Marine Propeller**
Alpay O., Demir Ö., Özdemir Y. H., Bayraktar S., Yılmaz T.
Ovidius University Annals of Mechanical, Industrial and Maritime Engineering, vol.10, no.1, pp.1-6, 2008 (Peer-Reviewed Journal)
- XI. **Two-Dimensional Large Eddy Simulation (LES) of Exhaust Smoke Dispersion around a Commercial Ship**
Bayraktar S., Demir Ö., Özdemir Y. H., Alpay O., Yılmaz T.
Ovidius University Annals of Mechanical, Industrial and Maritime Engineering, vol.10, no.1, pp.1-5, 2008 (Peer-Reviewed Journal)
- XII. **THE INVESTIGATION OF VORTICES BY USING SECOND ORDER TURBULENCE CLOSURE**
Bayraktar S., Yılmaz T.
Havacılık ve Uzay Teknolojileri Dergisi, vol.3, no.22, pp.7-15, 2007 (Peer-Reviewed Journal)
- XIII. **Design and Manufactured a 3-D and Computer-Controlled Traverse Systems for Fluid Dynamics**

Applications

BAYRAKTAR S.

EMO Makina Market Dergisi, vol.115, no.1, pp.1-5, 2007 (Peer-Reviewed Journal)

XIV. **Analysis of Exhaust and Stack Systems of a Warship**

Bayraktar S., Safa A., Çelebi U. B., Ekinci S.

Ovidius University Annals of Mechanical Engineering, vol.8, no.1, pp.1-6, 2006 (Peer-Reviewed Journal)

XV. **Gemilerde korozyon analizi ve korozyonu etkileyen faktörler**

Barut M., Bayraktar S.

Gemi ve Deniz Teknolojisi Dergisi, vol.3, no.162, pp.1-4, 2004 (Peer-Reviewed Journal)

XVI. **Hidrolik Güç Sistemlerinde Kavite Olayı ve Saptama Metotlarının İncelenmesi**

Öztürk R., Akkaya A. V., Bayraktar S.

Hidrolik ve Pnömatik Dergisi, vol.3, no.8, pp.140-146, 2003 (Peer-Reviewed Journal)

XVII. **Gemi Pervane Malzemeleri**

EKİNCİ S., BAYRAKTAR S.

Gemi ve Deniz Teknolojisi Dergisi, vol.2, no.157, pp.11-16, 2002 (Peer-Reviewed Journal)

XVIII. **Boru ve Silindirik Kanallardaki Engellerin Akım Üzerindeki Etkilerinin Simülasyonu**

Bayraktar S.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.21, no.3, pp.83-92, 2002 (ESCI)

Books & Book Chapters

I. **The Aerodynamic Wind Loads of a Naval Surface Combatant in Model Scale**

Sarı S., Doğrul A., Bayraktar S.

in: New Technologies, Development and Application V, Isak Karabegović, Ahmed Kovačević, Sadko Mandžuka, Editor, Springer Nature, Zug, pp.68-76, 2022

II. **Section 2: Energy Systems and Analyses**

Bolek A., BAYRAKTAR S.

in: Exergetic, Energetic and Environmental Dimensions, Ibrahim Dincer Can Ozgur Colpan Onder

Kizilkan Hardcover ISBN: 9780128137345 Imprint: Academic Press Published Date: 26th September 2017 Page Count: 1116, Editor, Elsevier, Cambridge, pp.677-692, 2017

Refereed Congress / Symposium Publications in Proceedings

I. **Numerical Investigation of Free Rotor Aerodynamics for Ship-Rotor Interaction**

Sarı S., Doğrul A., Bayraktar S.

6th International HYBRID Conference on Mathematical Advances and Applications (ICOMAA 2023), İstanbul, Turkey, 10 - 13 May 2023, vol.1, no.1, pp.1-7

II. **On the Computational Aerodynamics of a Generic Frigate**

SARI S., DOĞRUL A., BAYRAKTAR S.

2nd International Congress on Ship and Marine Technology, İstanbul, Turkey, 16 - 18 September 2021

III. **1-DOF 2D URANS Simulation of Vortex-Induced Vibration of a Cylinder with Different Damping Parameters**

Mutlu A. O., Bayraktar M., Bayraktar S.

4th International Congress on Engineering, Architecture and Design, İstanbul, Turkey, 23 - 24 April 2019, vol.1, no.1, pp.1-10

IV. **Numerical Investigation of Fridsma Hull**

Cansız M. Y., Kahramanoğlu E., Bayraktar S.

1st International Symposium on Graduate Research in Science: Focus on Entrepreneurship and Innovation, İstanbul, Turkey, 04 October 2018, vol.1, no.1, pp.1-5

- V. **Two-Dimensional Numerical Solution of Heat Transfer and Fluid Flow over a Grooved Circular Cylinder**
Ozturk E., BAYRAKTAR S.
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation, İstanbul, Turkey, 04 October 2018, vol.1, no.1, pp.1-5
- VI. **Implementation of Bell Spanload Wing Design to the Autonomous Underwater Vehicle**
Bolek A., BAYRAKTAR S., Konur G., Ataseven A., Pesman E.
The 3rd International Symposium on Naval Architecture and Maritime (INT-NAM 2018), İstanbul, Turkey, 23 April 2018, vol.3, no.1, pp.1-10
- VII. **Heat and Fluid Flow Analyses of an Impinging Jet on a Cubic Body**
Bolek A., BAYRAKTAR S.
2nd International Conference on Energy Systems (ICES 2016), Isparta, Turkey, 21 December 2016, pp.1-10
- VIII. **CFD Analysis of Ventilation System for an Engine Room**
Tasdemir C., BAYRAKTAR S.
1st International Ship and Marine Technology Congress (SHIP-MAR 2016), İstanbul, Turkey, 08 December 2016, pp.1-6
- IX. **Unsteady Flow Over Bodies Located In Line Horizontally and Vertically**
Mentese A., Bayraktar S.
International Mechanical Engineering and Technologies Conference (MECHATECH`16), İstanbul, Turkey, 17 - 18 May 2016, vol.1, no.1, pp.1-6
- X. **Resistance Analysis of a Benchmark Ship – A Computational Application**
Gökçe M. K., Bayraktar S., Kınacı Ö. K.
18th Numerical Towing Tank Symposium, Arezzo, Italy, 28 - 30 September 2015, vol.1, no.1, pp.59-64
- XI. **Heat Transfer and Computational Fluid Dynamics (CFD) Analysis of a Fin Heat Sink with Various Configurations**
Basak M., Bayraktar S., Sevilgen S. H.
International Congress on Natural and Engineering Sciences, 09-13 September 2015, Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, vol.1, no.1, pp.1-8
- XII. **Computational Investigation of Unsteady Flow Past a Confined Cylinder of Various Cross-Sections**
Bayraktar S., Oztekin A., Yayla S., Ma H.
International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, İstanbul, Turkey, 20 - 21 June 2013, vol.1, no.1, pp.1-8
- XIII. **Flow and Heat Transfer Characteristics of the Staggered Slotted Semi-Cylinders in a Cross Flow Heat Exchangers**
Yayla S., Oztekin A., Bayraktar S.
65th Annual Meeting of the APS Division of Fluid Dynamics, California, United States Of America, 18 - 20 November 2012, vol.1, no.1, pp.1-4
- XIV. **Investigation of the Effects of Different Keel Geometries on a Sailing Yacht**
Çakıcı F., Doğrul A., Usta O., Bayraktar S.
9th International Conference on Hydroman in Ship Design (HYDROMAN 2012), Gdansk, Poland, 19 - 21 September 2012, vol.1, no.1, pp.1-10
- XV. **Investigation of the Effects of Gurney Flap on the Lift of NACA 0012 Airfoil in Varying Lengths,**
Doğrul A., Çakıcı F., Kınacı Ö. K., Bayraktar S.
19th International Conference on Hydroman in Ship Design (HYDROMAN 2012), 19 th-21th September, 2012, Ilawa, POLAND, Gdansk, Poland, 19 - 21 September 2012, vol.1, no.1, pp.1-10
- XVI. **Turbulent Flow Computations for Slender Ships with Free Surface**
Özdemir Y. H., Bayraktar S., Barlas B.
The First International Symposium on Naval Architecture and Maritime (INT-NAM 2011), 24-25 October 2011, İstanbul, TURKIYE., İstanbul, Turkey, 24 - 25 October 2011, vol.1, no.1, pp.1-8
- XVII. **Computational Flow Analysis of a Submarine**
Bayraktar S., Surer S., Özdemir Y. H., Yılmaz T.

- Manufacturing and Advances Technologies (MAT 2010), 18-20 November 2010, Mostar, BOSNIA HERZEGOVIA., Mostar, Bosnia And Herzegovina, 18 - 20 November 2010, vol.1, no.1, pp.1-6
- XVIII. **Current Naval Architecture Education, Demand and Expectations of Sector**
TURAN E., ARIKAN ÖZDEN Y., BAYRAKTAR S.
International Conference on New Horizons in Education, Famagusta, Cyprus (Kkct), 23 June 2010, pp.152-157
- XIX. **Modeling of a HVAC Unit in a Room for Performance Analysis**
Doğrul A., Özdemir Y. H., Bayraktar S.
10th Rehva World Congress on Sustainable Energy Use in Buildings (CLIMA 2010), Antalya, Turkey, 9 - 12 May 2010, vol.1, no.1, pp.1-7
- XX. **Mixing of Air and CO2 Study on a Turbine Blade**
Bayraktar S., Özdemir Y. H., Yılmaz T.
International Symposium on Heat Transfer in Gas Turbine Systems, (TURBINE-09), 09-14 August 2009, Antalya, TURKEY, Antalya, Turkey, 9 - 14 August 2009, vol.1, no.1, pp.1-4
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- XXIV. **Systematic Design: Analysis of Natural Systems and Synectics Approach**
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- XXVI. **Investigation of the Effects of Turbulence on a 2-D Rib Roughened Channel**
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Safa A., Bayraktar S., Çelebi U. B.

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XXXVI. Computational Analysis of Flow Field in Grooved and Ribbed Pipes

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Supported Projects

Bayraktar S., Doğrul A., Sarı S., TUBITAK Project, Aerodynamic investigation of a generic warship with flight deck, 2023 - 2024

Demir Ö. C., İnan M., Bayraktar S., TUBITAK Project, Şaftsız (rim-driven) deniz pervanesi tasarım ve analizi, 2022 - 2023
Sarıtaş E., Terzioğlu B., Bayraktar S., TUBITAK Project, Flow analysis of industrial gas cleaners (scrubbers) used in ship , 2022 - 2023

Bayraktar S., Tarhan T., Agdogan A., TUBITAK Project, Düzlemsel bir yüzeye yakın konumlandırılmış dairesel kesitli yivli silindirlere ardındaki akış ve ısı transfer analizleri, 2021 - 2022

Yayla S., Bayraktar S., TUBITAK Project, Atık Suyun Ve Petrol-Su Karışımının Ayrıştırılması Sistemlerinde Kullanılacak Egimli Birleştirilmiş Plaka Setlerinin Tasarımı Ve Sayısal Olarak İncelenmesi, 2021 - 2022

Özkara E., Ağyurek O., Bayraktar S., TUBITAK Project, Yangına Dayanıklı (A0) Ve Su Geçirmez Hidro Elektrik Otomatik Kayar Kapıların Tasarımı Prototip Üretimi Ve Tip Onay Testleri, 2018 - 2020

Sevilgen S. H., Başak M., Bayraktar S., Industrial Thesis Project, Soğutmalı Basınçlı Hava Kurutucu Dizaynı ve Optimizasyonu, 2012 - 2015

BAYRAKTAR S., Project Supported by Higher Education Institutions, Altı (6) Serbestlik Dereceli Gemi Hareketlerinin Deneysel Ve Sayısal Olarak İncelenmesi, 2011 - 2014

BAYRAKTAR S., Laboratory Tip Approval Tests of High Velocity Pressure-Vacuum Valve TMG-3/1968 according to IMO/MSC/Circ.677/Circ.1009, ISO 15364:2007(E) and ISO 16852:2010(E), 2011 - 2011

BAYRAKTAR S., CFD and FEM Analyses of Plate Orifices with Various Geometries, 2011 - 2011

Yılmaz T., Bayraktar S., Yüksek İ., Gül Z., Project Supported by Other Official Institutions, Flow Analysis & Environmental Impacts of Industrial Chimney Gasesous by means of Experimental & Computational Fluid Dynamics (CFD), 2005 - 2008

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IMO/MSC/Circ.677/Circ.1009 ve TS EN ISO 15364(2004), 2006 - 2006

Activities in Scientific Journals

Seatific, Assistant Editor/Section Editor, 2022 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Chamber of Naval Architects and Marine Engineers, Member, 1998 - Continues, Turkey

Scientific Refereeing

Journal of Thermal Engineering, Journal Indexed in ESCI, May 2023

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E,
December 2022

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2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Diğer, Turkey, July 2022

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Technical University, Turkey, June
2022

Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Journals, May 2022

Seatific , Other Journals, May 2022

Journal of Thermal Engineering, Journal Indexed in ESCI, April 2022

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MARITIME ENVIRONMENT, Journal Indexed in SCI-E, January 2022

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January 2022

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2021

OCEAN ENGINEERING, SCI Journal, August 2021

International Journal of Fluid Mechanics Research, Journal Indexed in ESCI, August 2021

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Özel şirket, Turkey, August 2021

SIGMA Journal of Engineering and Science , Journal Indexed in ESCI, July 2021

The Journal of Ocean Technology , Other Indexed Journal, July 2021

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Yıldız Technical University, Turkey, July 2021

OCEAN ENGINEERING, Journal Indexed in SCI-E, June 2021

JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, SCI Journal, June 2021

Jordan Journal of Mechanical and Industrial Engineering, Journal Indexed in ESCI, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yıldız Technical University, Turkey, May 2021

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JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, December 2020

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TUBITAK Project, 3501 - National Young Researcher Career Development Program, TÜRKİYE BİLİMSEL VE TEKNOLOJİK ARAŞTIRMA KURUMU, Turkey, June 2020

AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, May 2020

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, SCI Journal, May 2020

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Journal of Engineering and Technological Sciences, Journal Indexed in ESCI, February 2020

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, February 2020

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The Third International Conference on Mechanical, Electric and Industrial Engineering (MEIE2020), Kunming, China, Conference Paper (Full Text), January 2020

Bilecik Seyh Edebali University Journal of Science, Other Indexed Journal, December 2019

Pamukkale University Journal of Engineering Sciences, Journal Indexed in ESCI, November 2019

JOURNAL OF THERMAL ENGINEERING, Journal Indexed in ESCI, October 2019

TUBITAK Project, 1002 - Quick Support Program, Istanbul Technical University, Turkey, October 2019

Polytechnic Journal, Journal Indexed in ESCI, August 2019

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22. Isı Bilimi ve Tekniği Kongresi (ULIBTK2019) , Conference Paper (Full Text), July 2019

Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, July 2019

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2019

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Fluid Dynamics Research, SCI Journal, April 2019
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Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, April 2019
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, March 2019
Environmental Fluid Mechanics, SCI Journal, January 2019
DSI Technical Bulletin, National Scientific Refreed Journal, December 2018
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TÜBİTAK, Turkey, November 2018
TÜBİTAK International Bilateral Joint Cooperation Program Project, Polish National Centre for Research and Development, NCBR Bilateral Cooperation Program, Gdansk Teknik Üniversitesi, Poland, November 2018
European Physical Journal - Applied Physics, SCI Journal, October 2018
The European Physical Journal , SCI Journal, October 2018
European Physical Journal Applied Physics, SCI Journal, August 2018
Academic Globalization and Inter-Cultural Communication (AGIC 2018), Orlando, Florida, USA, Other journals, July 2018
Journal of Mechanical Science and Technology, SCI Journal, July 2018
The European Physical Journal , SCI Journal, June 2018
The 3rd International Symposium on Naval Architecture and Maritime (INT-NAM 2018), Istanbul, Turkey, Other journals, April 2018
Project Supported by Higher Education Institutions, March 2018
Journal of Mechanical Science and Technology, SCI Journal, February 2018
Experimental Aerodynamics, Scientific / Professional Book Published by Renowned Publishing Houses, December 2017
Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering, SCI Journal, October 2017
Journal of ETA Maritime Science, National Scientific Refreed Journal, August 2017
Research on Engineering Structures and Materials, Other Indexed Journal, August 2017
Journal of Mechanical Science and Technology, SCI Journal, February 2017
9th International Exergy, Energy and Environment Symposium (IEEES-9), , Other journals, February 2017
1st INTERNATIONAL SHIPBUILDING AND MARINE TECHNOLOGY CONGRESS (GMO-SHIPMAR 2016), Other journals, November 2016
Journal of Aerospace Engineering, SCI Journal, September 2015
Chemical Engineering Communications, 2015 , SCI Journal, August 2015
Ocean Engineering, 2015, SCI Journal, May 2015
International Congress on Natural and Engineering Sciences, SCI Journal, May 2015
7.nci Uluslararası Muhendislik ve Teknolojik Inovasyon Multi-Konferansı-IMETI 2014, SCI Journal, June 2014
Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science, SCI Journal, September 2013
International Journal of Thermal Sciences, SCI Journal, April 2013
Engineering Applications of Computational Fluid Mechanics, SCI Journal, March 2013
International Journal of Mechanical Science and Technology, SCI Journal, January 2013
Journal of Mechanical Science and Technology, SCI Journal, September 2012
The 4th International Conference on Engineering and Meta-Engineering (IMECE 2013), March 19-22, 2013, Orlando, Florida, USA, SCI Journal, September 2012
Journal of Mechanical Science and Technology , SCI Journal, February 2012
Journal of Mechanical Engineering Science, SCI Journal, January 2012
International Conference on Engineering and Meta-Engineering (ICEME 2012), 25-28 March 2012, Orlando, Florida, USA (1 PAPER), SCI Journal, December 2011
5th International WSEAS Conference on Maritime and Naval Science and Engineering (MN'12), 25-27 February 2011, Cambridge, United Kingdom (2 PAPERS), SCI Journal, December 2011
9th WSEAS International Conference on Heat and Mass Transfer (HMT'12), 26-28 January 2012, Boston, USA (3 PAPERS), SCI Journal, November 2011

Engineering Applications in Computational Fluid Mechanics, 2011 (2 PAPERS), SCI Journal, October 2011
Journal of Mechanical Engineering Science and Technology, 2011, (5 PAPERS), SCI Journal, September 2011
Computer and Fluids, 2011 (1 PAPER), SCI Journal, August 2011
4th Symposium on Academic Globalization: AG, 2011, 19-22 July 2011, Orlando, Florida, USA, (1 PAPER), SCI Journal, June 2011
The Second International Conference on Engineering and Meta-Engineering (ICEME 2011), 27-30 March 2011, Orlando, Florida, USA (1 PAPER), SCI Journal, January 2011
Sigma Mühendislik ve Fen Bilimleri Dergisi (YTÜ), 2010 (1 MAKALE), National Scientific Refreed Journal, November 2010
Engineering Applications of Computational Fluid Dynamics, 2010, (1 PAPER), SCI Journal, June 2010
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, (1 PAPER), SCI Journal, May 2010
3rd International Multi-Conference on Engineering and Technological Innovation (IMETI 2010), June 29-July 02 2010, Orlando, Florida, USA, (1 PAPER), SCI Journal, May 2010
4th International Multi-Conference on Engineering and Technological Innovation (IMETI 2011), 01-22 July 2010, Orlando, Florida, USA, (1 PAPER), SCI Journal, May 2010
Journal of Mechanical Engineering Science and Technology, 2010, (1 PAPER), SCI Journal, March 2010
2nd International Multi-Conference on Engineering and Technological Innovation (IMETI 2009), 10-13 July 2009, Orlando, Florida, USA, (2 PAPERS), SCI Journal, May 2009
3rd Symposium on Academic Globalization: AG, 2009, 10-13 July 2009, Orlando, Florida, USA, (3 PAPERS), SCI Journal, April 2009
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, (1 PAPER), SCI Journal, January 2009

Scientific Consultations

Yalin Tasarim Muhendislik, Project Consultancy, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey, 2018 - 2018
Alsanfan, Project Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, Turkey, 2012 - 2012
TEKNO-MAR Gemicilik, Project Consultancy, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Naval Architecture And Marine Engineering, Turkey, 2011 - 2011

Mobility Activity

Post Doc, Post Doc, Lehigh University, United States Of America, 2012 - 2013

Metrics

Publication: 78
Citation (WoS): 86
Citation (Scopus): 119
H-Index (WoS): 5
H-Index (Scopus): 6

Congress and Symposium Activities

The 3rd International Symposium on Naval Architecture and Maritime (INT-NAM 2018), Session Moderator, İstanbul,

Turkey, 2018

7th International Advanced Technologies Symposium (IATS'13), Session Moderator, İstanbul, Turkey, 2013

Scholarships

Doktora Sonrasi Arastirma-Amerika Birleşik Devletleri, Lehigh University (Nisan 2012-Nisan 2013), YOK, 2012 - 2013