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Education Information

Doctorate, Cukurova University, Mhendislik Fakltesi, Makina Mh., Turkey 2019 - 2023

Postgraduate, Cukurova University, Mhendislik Fakltesi, Makine Mhendislięi, Turkey 2017 - 2019

Undergraduate Double Major, Cukurova University, Mhendislik-Mimarlık Fakltesi, Otomotiv Mhendislięi, Turkey 2014 - 2018

Undergraduate, Cukurova University, Mhendislik-Mimarlık Fakltesi, Makine Mhendislięi, Turkey 2012 - 2017

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Aerodynamics, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Cukurova University, Mhendislik Fakltesi, Makina Mh., 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of heat transfer characteristics of a rectangular grooved heat exchanger under magnetic field using artificial neural network**
TMSE S., Tantekin A., BLGL M., Sahin B.
International Journal of Heat and Fluid Flow, vol.112, 2025 (SCI-Expanded)
- II. **Heat transfer and entropy generation in oscillating lid-driven heat sinks with variable fin configurations**
Alhasan M., Hamzah H., TMSE S., Daabo A. M., Sahin B.
International Communications in Heat and Mass Transfer, vol.159, 2024 (SCI-Expanded)
- III. **Comparative Analysis of Global Onshore and Offshore Wind Energy Characteristics and Potentials**
TMSE S., BLGL M., Yildirim A., Sahin B.

- Sustainability (Switzerland), vol.16, no.15, 2024 (SCI-Expanded)
- IV. **Assessment of heating degree-days factor (HDDF) for building-oriented climate zoning in Türkiye**
BİLGİLİ M., TÜMSE S., Sahin B.
International Journal of Green Energy, 2024 (SCI-Expanded)
- V. **Comprehensive Overview on the Present State and Evolution of Global Warming, Climate Change, Greenhouse Gasses and Renewable Energy**
BİLGİLİ M., TÜMSE S., Nar S.
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- VI. **A Computational Investigation of the Influence of Seafloor Conditions on the Turbulent Flow Characteristics of an Autonomous Underwater Vehicle**
Tabatabaei Malazi M., TÜMSE S., Ozgoren M., Sahin B.
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- VII. **Machine learning approaches in predicting the wind power output and turbine rotational speed in a wind farm**
İLHAN A., TÜMSE S., BİLGİLİ M., Sahin B.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.12084-12110, 2024 (SCI-Expanded)
- VIII. **Numerical Investigation of Magneto hydrodynamic Forced Convection and Entropy Production of Ferrofluid Around a Confined Cylinder Using Wire Magnetic Sources**
Tümse S., Zontul H., Hamzah H., Sahin B.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.48, pp.11591-11620, 2023 (SCI-Expanded)
- IX. **Comparison and evaluation of machine learning approaches for estimating heat index map in Türkiye**
Tümse S., Bilgili M., Şekertekin A., Ünal Ş., Şahin B.
NEURAL COMPUTING AND APPLICATIONS, vol.35, pp.15721-15742, 2023 (SCI-Expanded)
- X. **Influence of uniform magnetic field on hydrothermal characteristics and entropy production in a nanofluid filled rectangular grooved channel**
Tümse S., Şahin B.
CASE STUDIES IN THERMAL ENGINEERING, vol.45, pp.1-20, 2023 (SCI-Expanded)
- XI. **The impact of the ground on flow structure and aerodynamic characteristics of a double delta wing**
Tasci M. O., TÜMSE S., Sahin B.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.130, 2022 (SCI-Expanded)
- XII. **Vortical flow characteristics of a slender delta wing in ground effect**
Tasci M. O., TÜMSE S., Sahin B.
OCEAN ENGINEERING, vol.261, 2022 (SCI-Expanded)
- XIII. **Experimental Investigation of Ground Effect on the Vortical Flow Structure of a 40 degrees Swept Delta Wing**
TÜMSE S., Karasu I., Sahin B.
JOURNAL OF AEROSPACE ENGINEERING, vol.35, no.4, 2022 (SCI-Expanded)
- XIV. **Estimation of aerodynamic coefficients of a non-slender delta wing under ground effect using artificial intelligence techniques**
TÜMSE S., BİLGİLİ M., ŞAHİN B.
NEURAL COMPUTING & APPLICATIONS, vol.34, no.13, pp.10823-10844, 2022 (SCI-Expanded)
- XV. **Estimation of wind turbine output power using soft computing models**
TÜMSE S., İLHAN A., BİLGİLİ M., Sahin B.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.2, pp.3757-3786, 2022 (SCI-Expanded)
- XVI. **Particle Image Velocimetry Investigation of the Flow for the Curved Type Wind Turbine Shroud**
İLHAN A., TÜMSE S., TAŞÇI M., BİLGİLİ M., ŞAHİN B.
JOURNAL OF APPLIED FLUID MECHANICS, vol.15, no.2, pp.373-385, 2022 (SCI-Expanded)
- XVII. **Near-surface particle image velocimetry measurements over a yawed slender delta wing**

Karasu I., TMSE S., TAŐCI M., ŐAHİN B., AKILLI H.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.235, no.16, pp.2466-2478, 2021 (SCI-Expanded)

XVIII. **Effect of Growth in Turbine Size on Rotor Aerodynamic Performance of Modern Commercial Large-Scale Wind Turbines**

BİLGİLİ M., TMSE S., Tontu M., ŐAHİN B.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.8, pp.7185-7195, 2021 (SCI-Expanded)

XIX. **The impact of the pitching motion on the structure of the vortical flow over a slender delta wing under sideslip angle**

Tasci M. O., Pektas M. C., TMSE S., Karasu I., ŐAHİN B., AKILLI H.

JOURNAL OF VISUALIZATION, vol.24, no.3, pp.437-442, 2021 (SCI-Expanded)

XX. **Effect of ground on flow characteristics and aerodynamic performance of a non-slender delta wing**

TMSE S., Tasci M. O., Karasu I., ŐAHİN B.

AEROSPACE SCIENCE AND TECHNOLOGY, vol.110, 2021 (SCI-Expanded)

XXI. **Flow analyses of diffuser augmented wind turbines**

İLHAN A., ZONTUL H., TMSE S., BİLGİLİ M., ŐAHİN B.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. **Lift Coefficient Estimation of a Delta Wing Under the Ground Effect Using Artificial Neural Network**

TMSE S., BİLGİLİ M., ŐAHİN B.

Çukurova Üniversitesi Mühendislik Fakltesi Dergisi, vol.36, 2021 (Peer-Reviewed Journal)

II. **The Influence of Perturbation Motion Over a Slender Delta Wing Under Sideslip Angle**

Taşcı M. O., Tmse S., Őahin B., Karasu İ., Akıllı H.

Niğde Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.1, pp.393-403, 2021 (Peer-Reviewed Journal)

III. **The Turbulence Intensity Effect on the Flow Characteristics and Aerodynamics of a Circular Cylinder**

KARASU İ., TMSE S.

Çukurova Üniversitesi Mühendislik Fakltesi Dergisi, 2021 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

I. **Cross-Flow PIV Measurements of the Ground Effect on Flow Characteristics of a Slender Delta Wing**

Taşcı M. O., TMSE S., ŐAHİN B.

INTERNATIONAL CONFERENCE ON ENGINEERING, NATURAL AND APPLIED SCIENCE 2021, Osmaniye, Turkey, 24 November 2021

II. **Investigation of Ground Effect on Flow Structures over 70 Swept Delta Wing by Flow Visualization Method**

Taşcı M. O., TMSE S., ŐAHİN B.

23rd Congress on Thermal Science and Technology, Gaziantep, Turkey, 08 September 2021

III. **Estimation of wind power output and rotational speed of a turbine by using Adaptive Neuro-Fuzzy Interference System**

Tmse S., Bilgili M., Őahin B.

5th International GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES , Şanlıurfa, Turkey, 4 - 06 December 2020, pp.213-225

IV. **Prediction of lift forces of a non-slender delta wing under ground effect using Artificial Neural Network**

Tmse S., Bilgili M., Őahin B.

5th INTERNATIONAL GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES, Şanlıurfa, Turkey, 4 -

06 December 2020, pp.65

- V. **The influence of a transversely and coaxially oriented wire on the location of vortex breakdown**
Taşçı M. O., Tümse S., Şahin B., Karasu İ., Akıllı H.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019, pp.471-480

- VI. **The impact of the ground on the velocity fluctuations and the breakdown of leading-edge vortices on a 40° swept delta wing**

TÜMSE S., TAŞÇI M. O., ŞAHİN B.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019

- VII. **The effect of the ground on the lift coefficient and vortical flow structure of a non-slender delta wing**

TÜMSE S., TAŞÇI M. O., ŞAHİN B., KARASU İ.

22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, vol.2, pp.1461-1470

Supported Projects

ÖZKAN G. M., ŞAHİN B., TÜMSE S., Project Supported by Higher Education Institutions, Investigation of Flow Characteristics and Heat Transfer Performance in Heat Exchangers with Magnetic Field Effect, 2021 - 2023

ÖZKAN G. M., ZONTUL H., TÜMSE S., ŞAHİN B., Project Supported by Higher Education Institutions, Oluklu dikdörtgen kanallarda konvektif ısı transferinin ve akış hidrodinamiğinin araştırılması, 2021 - 2023

ŞAHİN B., TÜMSE S., Project Supported by Higher Education Institutions, Ground Effect on the Aerodynamic Parameters and Flow Characteristics of a Nonslender Delta Wing, 2019 - 2020

Metrics

Publication: 31

Citation (WoS): 4

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2